

DataFlux® Data Management Studio Installation and Configuration Guide



DATAFLUX®
data management



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DataFlux® Data Management Studio

Installation and Configuration Guide

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Introduction

- [Accessibility](#)
- [Conventions Used in this Document](#)
- [DataFlux References](#)

Accessibility

DataFlux Data Management Platform (Data Management Platform) includes features that improve usability of the product for users with disabilities. These features are related to accessibility standards for electronic information technology that were adopted by the United States (U.S.) Government under Section 508 of the U.S. Rehabilitation Act of 1973, as amended.

If you have questions or concerns about the accessibility of DataFlux products, send an e-mail to techsupport@dataflux.com.

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 2.2 > Documentation.

Reference Publications

This document might reference other DataFlux® publications including:

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 Data Management Studio User's Guide

DataFlux Expression Language Reference Guide

DataFlux Federation Server Administrator's Guide

DataFlux Federation Server User's Guide

DataFlux Migration Guide

DataFlux Quality Knowledge Base Online Help

Installing Data Management Studio

- [Installing Data Management Studio](#)
- [System Requirements](#)
- [Data Storage](#)
- [Repository Storage](#)

Installing Data Management Studio

DataFlux Data Management Studio is available through SAS delivery channels. See your SAS Software Order Email (SOE) for information about installing this product.

The default installation path under Windows is: SASHome\<product_instance_name>

The default installation path under UNIX is: SASHome/<product_instance_name>

If you want to configure Data Management Studio after installation, see [Configuring Data Management Studio](#). If you want to install add-on products, see [Installing Add-On Products](#).

System Requirements

You can review system requirements for SAS 9.3 products at the following location:

<http://support.sas.com/documentation/installcenter/93/>

A search window for SAS 9.3 Install Center Documentation appears. Search for your product name. A results page will appear with links to the system requirements for your software.

Supported Databases for Data Storage

DataFlux Data Management Studio can use DataFlux ODBC 7.0 drivers to access data in the following databases:

Driver	Database Version
Btrieve®	Btrieve 6.15
Btrieve	Pervasive.SQL™ 7.0, 8.5, and 2000
dBASE	Clipper™
dBASE™	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 Containers (DBC)
DB2® Wire Protocol	IBM® DB2 v9.1, v9.5, and v9.7 for Linux®, UNIX, and

Driver	Database Version
	Windows®
DB2 Wire Protocol	IBM DB2 Universal Database™ (UDB) v7.x and v8.x for Linux, UNIX, and Windows
DB2 Wire Protocol	IBM DB2 v9.1 and v10 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, V6R1, and V7R1 for iSeries®
Greenplum Wire Protocol	Greenplum Database 3.1, 3.2, 3.3, 4, and 4.1
Informix® (client)	Informix Dynamic Server 9.2, 9.3, 9.4, 10.0, 11.0, 11.5, and 11.7
Informix Wire Protocol	Informix Dynamic Server 9.2, 9.3, 9.4, 10.0, 11.0, 11.5, and 11.7
MySQL™ Wire Protocol	MySQL 5.0x, 5.1, and 5.5
Oracle® (client)	Oracle 8.0.5 and higher (32-bit only)
Oracle (client)	Oracle 8i R2 and R3, (8.1.6 and 8.1.7)
Oracle (client)	Oracle 9i R1 and R2 (9.0.1 and 9.2)
Oracle (client)	Oracle 10g R1 and R2 (10.1 and 10.2)
Oracle (client)	Oracle 11g R1 and R2 (11.1 and 11.2)
Oracle Wire Protocol	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 R2 (11.2)
PostgreSQL® Wire Protocol	PostgreSQL 8.2, 8.3, 8.4, 9.0, and 9.1
Progress OpenEdge Wire Protocol	Progress OpenEdge 10.1x, 10.2x, and 11.0
Salesforce	Salesforce (API Version 23)
SQL Server Legacy Wire Protocol	Microsoft® SQL Server® 7.0
SQL Server Legacy Wire Protocol	Microsoft SQL Server 2000
SQL Server Legacy Wire Protocol	Microsoft SQL Server 2005
SQL Server Legacy Wire Protocol	Microsoft SQL Server 2008 R1, R2
SQL Server Wire Protocol	Microsoft SQL Server 2000
SQL Server Wire Protocol	Microsoft SQL Server 2005
SQL Server Wire Protocol	Microsoft SQL Server 2008 R1, R2
Sybase® Wire Protocol	Sybase Adaptive Server® 11.5 and 11.9
Sybase Wire Protocol	Sybase Adaptive Server Enterprise® 12.0, 12.5x, 15.0, 15.5, and 15.7
Sybase IQ	Sybase IQ 15.0, 15.1, 15.2, and 15.3
Teradata®	Teradata 12.0, 13.0, and 13.1
Teradata	Teradata V2R6.0, V2R6.1, and V2R6.2
Text	Text Files
XML	XML Documents (tabular and hierarchical formatted)

Supported Databases for Repository Storage

Overview

To add or update a repository, you will access the Repository Definition dialog. This dialog is used to create a repository definition file (.RCF file). There are two main sections of the Repository Definition dialog, as shown in the next figure:

Edit Repository Definition

Name: Web Repository ORA

Data storage

Specify a database for the storage of items requiring a database.

☐ Database file

Location: Browse...

☒ Database connection

Name: DataFlux Web Studio ORA

Table prefix (optional): WEB

Test Connection

Save Repository DDL...

File storage (optional)

Specify a folder for the storage of file-based items.

Folder: C:\ProgramData\DataFlux\DataManagement\2.2\Rep Browse...

☐ Connect to repository at startup

☐ Private

OK Cancel Help


Data storage - specifies a database for the storage of data explorations, profiles, and all objects in the Business Rule Manager (rules, tasks, custom metrics, etc.). Supported databases include SQLite and other database formats. For a list of supported formats, see [Database Storage for Repositories](#).

File storage - specifies a separate storage location for objects that are stored as files, such as data jobs, process jobs, queries, *.sas files (SAS code files), and Entity Resolution Output files (*.sri files). For a list of supported formats, see [File Storage for Repositories](#).

Database Storage for Repositories

A Data Management Studio repository supports two kinds of storage: database storage and file storage. The following databases can be used for the database storage section of a repository:

Database	ODBC Driver
DB2® V8.x, V9.1, V9.5, and V9.7 for Linux®, UNIX, and Windows	X
DB2® Universal Database (UDB) v7.x for Linux®, UNIX, and Windows	X
Informix Server 10.0, 11.0, and 11.5	X
Microsoft® SQL Server® 2008 R1, R2	X
Microsoft SQL Server 2005	X
Microsoft SQL Server 2000 Enterprise Edition (64-bit)	X
Microsoft SQL Server 2000 Desktop Engine (MSDE 2000)	X
Microsoft SQL Server 2000 Service Packs 1, 2, 3, 3a and 4	X
Oracle® 11g R1, R2 (11.1, 11.2)	X
Oracle 10g R1, R2(10.1, 10.2)	X
Oracle 9i R1, R2 (9.0.1, 9.2)	X
Sybase® Adaptive Server® 12.0, 12.5x, 15, and 15.5	X
Teradata® 12.0 and 13.0	X

 **Note:** Due to locking issues, file-based repositories and Microsoft® Access® based repositories are not recommended for production systems.

File Storage for Repositories

The file storage location can be any physical path that is accessible to Data Management Studio, which is a Windows application. Any version of Windows that supports Data Management Studio can be used for file storage. For more information, see [System Requirements](#).

It is possible to specify a UNIX location for file storage if this location has been made accessible to Data Management Studio as a network drive, etc. The following versions of UNIX are supported:

- AIX®: Version 5.3 and 6.1 on POWER® architectures
- HP-UX® PA-RISC: HP-UX 11iv2 (11.23), 11iv3 (11.31)
- HP-UX Itanium®: HP-UX 11iv2 (11.23), 11iv3 (11.31)
- Linux® for x86 (x86-32)
- Linux on x64
- Solaris™ on SPARC: Version 8, 9, 10
- Solaris on x64: Version 10

Configuring Data Management Studio

- [Configuration Files](#)
- [DataFlux Folder Permissions](#)
- [Configuration Options](#)
- [Data Access Component Directives](#)
- [Logging Options](#)

Configuration Files

When Data Management Studio starts, it will determine which configuration options are in effect by reading a series of configuration files, by looking in the environment, and by 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 in determines which value is used. The last value read is used as the configuration setting.

Data Management Studio reads configuration settings in this order:

1. The app.cfg file in the etc folder where Studio is installed.
2. The app.cfg file in a user folder, such as drive:\Documents and Settings\USERNAME\Application Data\DataFlux\DataManagement\VERSION.
3. The application-specific configuration files in the etc folder, such as ui.cfg or dmserver.cfg.
4. The application-specific configuration files in a user folder.
5. The 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. The macros folder in a user folder.
7. The environment variables.
8. The command-line options if applicable.

DataFlux Folder Permissions

The following table outlines the recommended operating system permissions for users of Data Management Studio.

Directories	Users	Default Permissions
<i>DataFlux-home</i>	Administrators, Installer	Full control
<i>DataFlux-home</i> \Data Management Studio	Process user	Read and Execute, List Folder Contents
<i>DataFlux repositories (which can exist anywhere)</i>	Process user	Read and Execute, List Folder Contents

Users need to be able to access the content and make changes to the DataFluxhome/etc location. Also, they should have access to their own user location located in %APPDATA%/DataFlux/.

Configuration Options

The main configuration options for Data Management Studio are as follows:

Option	Purpose	Source	Notes
Base/General Application			
ODBC_INI	Overrides the location of the odbc.ini file		UNIX only.
BASE/AUTH_SERVER_LOC	Location of DataFlux Authentication Server	Optional	If specified, contains the IOM URI to an Authentication Server. The basic format of the Authentication Server IOM URI is <code>iom://<host>:<port></code> . Where <code><host></code> is the name of the computer where the Authentication Server is executing and <code><port></code> is the port in which the Authentication Server may be contacted. The port should be specified as 21030 unless the default port for the Authentication Server has been changed. For more information, see the topic "Run a Job with Domain-Enabled ODBC Connections" in the Data Jobs chapter of the <i>DataFlux Data Management Studio User's Guide</i> .
BASE/LIBRARY_PATH	Path for Java jar dependencies	Optional	Determined by startup code (DFEXEC_HOME/lib).
BASE/PLUGIN_PATH	Path used by all	Optional	Determined by startup code.

Option	Purpose	Source	Notes
	subsystems to find plugins		
BASE/EXE_PATH	Path containing executables	Optional	Calculated.
BASE/PRIMARY_LICENSE	Primary licensing method	Required by base	Must be set in the configuration file as DATAFLUX or SAS
BASE/PRIMARY_LICENSE_LOC	Location of the primary license file or server	Required by base	Must be set in the configuration file.
BASE/MACROS_PATH	Path for system macros.cfg file	Optional	If not specified, this file is located in the etc subfolder of the installation folder.
BASE/SECONDARY_LICENSE	Secondary licensing method	Required by base	Must be set in the configuration file as DATAFLUX or SAS.
BASE/SECONDARY_LICENSE_LOC	Location of the secondary license file or server	Required by base	Must be set in the configuration file.
BASE/LOGCONFIG_PATH	Full path to the log configuration file	Optional	Must be set in the configuration file or it defaults to logging.xml in the etc directory.
BASE/MESSAGE_PATH	Path to the message directory	Optional	Determined by startup code.
BASE/MESSAGE_LOCALE	Error message locale	Optional	If not specified, it is determined from the system locale.
BASE/MESSAGE_LEVEL	Error level of messages	Optional	0 (or not specified) - normal messages; 1 - includes source file and line number in messages.
BASE/USER_PATH	Path for user configuration files	Optional	Automatically determined by dfcurver.
BASE/REPOS_DDL_LINE_PREFIX	Format the output of the DDL file that is generated for a repository from the Repository Definition dialog	Must be set in the configuration file.	For this macro and BASE/REPOS_DDL_LINE_SUFFIX only, specifying ^p as a value will cause a line break.
BASE/REPOS_DDL_LINE_SUFFIX	Format the output of the DDL file that is generated for a repository from the Repository Definition dialog.	Must be set in the configuration file.	For this macro and BASE/REPOS_DDL_LINE_PREFIX only, specifying ^p as a value will cause a line break.
BASE/REPOS_SYS_PATH	System path for repository configuration files	Optional	Automatically determined.

Option	Purpose	Source	Notes
BASE/REPOS_USER_PATH	User directory for repository configuration files	Optional	Automatically determined by dfcurver.
BASE/REPOS_FILE_ROOT	Overrides the root of the repository for URI lookups	Optional	If specified this is used as the root for repository when resolving the URI. In other words, the path in the URI will be concatenated to this path to give the actual filename of a URI.
BASE/REPOS_EVENT_WAIT_QUERYMS	Repository event that processes the wait time between processing queries.	Optional	Specifies how frequently in milliseconds to query the repository for changes in the event table. This might need to be changed due to slow servers or IT issues. This is an overriding value and the default is used if no value is set by the user. A setting of -1 disables events from client.
BASE/REPOS_EVENT_CLEAN_TIMEMIN	Repository event processor that removes all events older than X minutes before startup.	Optional	
BASE/TEMP	Temporary directory	Optional	If not specified, it inherits the value of the TEMP environment variable.
BASE/DATE_FORMAT	Specific date formats	Optional	If specified, it is iso8601.
BASE/TIME_BASE	Whether to use GMT time	Optional	If this is set to GMT (not the default), the current date returns in GMT. This will affect anything that uses the current date timestamp.
BASE/SORTBYTES	Specifies the bytes to use when sorting	Optional	
BASE/SORTMERGES	Enables merge during sort	Optional	
BASE/SORTTEMP	Specifies the temporary path for sorts	Optional	
BASE/SORTTHREADS	Specifies the number of sort threads	Optional	
BASE/EMAILCMD	Specifies the command used to send email	Required	Can include %T and %B where %T is replaced with the recipient and %B is a file containing the body of the message; also used by monitor event as well as architect nodes.
BASE/FTPGETCMD	Specifies the command used	Required	Should default in the install, as follows:

Option	Purpose	Source	Notes
	for Ftp Get Functionality		<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	Required	BASE/FTPPUTCMD
BASE/LOGEXCEPTIONS	Exception logging	Optional	Exception logging defaults to off. Set this option to either 1 or a combination of letters. A setting of 1 lists the modules loaded at the time the exception occurred, some information on those modules, and the call stack that caused the error. A setting with letters can include: m = do not show module info, V=turn verbose on, U=install the Unhandled Exception Filter, C=install the continue Exception Filter, f=do not install the first chance exception filter. This must be set before starting the application of interest, as this setting is read only at startup.
BASE/TEXTMINE_LITI_LANG_LOCATION	Doc extraction node option	Optional	This is the install location of Teragram liti files. This allows them to be in Teragram provided languages instead of in the DataFlux install.
BASE/DMSTUDIO	Studio indicator	Optional	If this option is set to true (value of 1), it indicates that it is using the dmstudio process (not processes started by dmstudio, like dfwfproc for instance). The user should not adjust this or override the value.
BASE/APP_VER	Application version number	Optional	Defaults to 2.3.
BASE/UPDATE_LEVEL	Application update level	Optional	Defaults to 0. Could be used as a minor revision number.
Data Access Component Logging			
DAC/DISABLESYSCATENUM	Enumeration of syscat dsn's	Optional	When set to "yes", 1, or "true," this setting will disable the listing the

Option	Purpose	Source	Notes
			SYSCAT type DSN's into DSN's that are on that server.
DAC/DFTKLOGFILE	DFTK logging	Optional	Filename.
DAC/TKTSLOGFILE	TKTS logging	Optional	Filename.
DAC/DFTKDISABLECEDA	Disables CEDA support	Optional	"Yes" turns it on.
DAC/SAVEDCONNSYSTEM	Location of system-saved connections	Optional	Defaults to DFEXEC_HOME/etc/dsn.
DAC/SAVEDCONNUSER	Location of user-saved connections	Optional	Defaults to the user settings folder, the folder where all of the application-specific settings supplied by a user are stored, such as the following path under Windows 7: C:\Users\[username]\AppData\Roaming\DataFlux\dac\9.x
DAC/DSN	DSN directory for TKTS dsns	Optional	Path that defaults to DFEXEC_HOME/etc/dftkdsn.
DAC/DFTK_PROCESS	Run DFTK out of process	Optional	"Yes" turns it on; off by default.
DAC/DFTK_PROCESS_TKP ATH	TKTS path for DFTK out of process	Optional	Path that defaults to a core/sasext dir off the executable dir.
Address Update (NCOA) (in dfncoa_appcfg.h)			
NCOA/DVDPATH	Path to the unpacked/unZIPped NCOA data	Required	Resides in macros/ncoa.cfg.
NCOA/QKBPATH	Path to the QKB used for Address Update name parsing	Required	Resides in macros/ncoa.cfg.
NCOA/USPSPATH	Path to the USPS CASS/DPV/etc data	Required	Resides in macros/ncoa.cfg.
NCOA/QKBPARSEDEFN	Name of the Addr. Updt. QKB parse definition to use	Optional	Default is "Name (Address Update)". Resides in macros/ncoa.cfg.
NCOA/REPOSDSN	Specifies DSN used to connect to the Address Update repository	Required	Is overridden by NCOA/REPOSCONNECTION. One or the other is required. This is typically set by the Address Update Admin utility. Resides in app.cfg.
NCOA/REPOSCONNECTION	Specifies the connection string used to connect to the Address Update repository	Required	Overrides NCOA/REPOSDSN. One or the other is required. This is typically set by the Address Update Admin utility. Resides in app.cfg.

Option	Purpose	Source	Notes
NCOA/REPOSPREFIX	Table prefix used on the Address Update tables.	Required	This is typically set by the Address Update Admin utility. Resides in app.cfg.
NCOA/REPOSTYPE	Specifies the repository type	Required	Valid values are: 0 (Guess), 1 (ODBC), 2 (DFTK). If the value is 0, the node attempts to determine the type from the connection string. This is typically set by the Address Update Admin utility. Resides in app.cfg.
NCOA/DFAV_CACHE_SIZE	Set verify cache percentage.	Optional	The higher the value the more data is cached, the faster the processing, the more memory used. The default is 0. Resides in macros/ncoa.cfg.
NCOA/DFAV_PRELOAD	Set verify preload options.	Optional	Valid values are "ALL" or an empty string. Using "ALL" requires a large amount of memory. Resides in macros/ncoa.cfg.
Pooling			
Note that for puddle options, the name of the puddle is placed after 'POOLING/', for example, POOLING/WFEJOB/MAXIMUM_PROCESSES. If no puddle name is specified, it is globally applied to all puddles. Here are a few puddles: WFEJOB - batch jobs on DMServer, WFESVC - Process services on DMSEVER, APISVC - DFAPI services (in the works)			
POOLING/CHILD_MAXIMUM_LAUNCHES	Throttling for launches	Optional	When specified, the number of concurrent child process launches is limited by this value. If the current child launch request exceeds the specified value, the launch will wait until the number of launching processes is below the specified value. If zero or not specified, there is no limit of concurrent child launches.
POOLING/MAXIMUM_PROCESSES	Maximum number of concurrent pooled processes	Optional	If 0, the number of concurrent pooled processes is unlimited. Default is unlimited (previously was 10). If POOLING/GET_PROCESS_TIMEOUT is set, it will wait for that amount of time to get a new process if it needs one. This is a puddle option.
POOLING/GET_PROCESS_TIMEOUT	Acquire process timeout	Optional	Default is no timeout. Specifies the length of time, in seconds, the process requester should wait for a process to become available. If zero, the requester will wait indefinitely. The acquire process timeout is in terms of the acquisition of a process and the process pooling handshaking. It does not consider the time required by the requester to complete application level initialization. This is a puddle option.

Option	Purpose	Source	Notes
POOLING/IDLE_TIMEOUT	Idle process timeout	Optional	Default is 0. Specifies the length of time, in seconds, a process remains idle before it is terminated. If zero, idle processes are not terminated. This is a puddle option.
POOLING/MAXIMUM_ERRORS	Maximum number of pooled process errors before process is terminated	Optional	Default is 0 (never terminate it). This controls how many times a process can fail (when it is reused for something else) before it is terminated. This is a puddle option.
POOLING/MAXIMUM_USE	Maximum number of pooled process uses before process is terminated.	Optional	Default is 0 (unlimited). The maximum number of times a pooled process may be used. After the pooled process has been used the specified number of times, it is terminated. This is a puddle option.
Process Flow			
WFE/CANCEL_TIMEOUT	Amount of time to give remote processes to cancel in milliseconds	Optional	When user hits cancel the amount of time to wait for remote nodes to exit gracefully before killing them.
WFE/MAX_EMBED_COUNT	Maximum embedding level	Optional	Defaults to 100. Maximum level of embedding for process nodes. Helps prevent runaway recursion when recursively embedding jobs.
WFE/MAX_EMBED_COUNT	Maximum threads	Optional	Default unlimited. Allows the user to allocate a number of threads for running process nodes. Each thread runs a node (even when running out of process). If this count is reached, nodes scheduled for execution will queue up.
WFE/ENGINE_THREAD_LIMIT	Specifies the thread pool limits for the workflow engine.	Optional	Use this setting to limit the number of engine threads. The default is 0 meaning unbounded, which will defer to the system for the thread pool limits. The optimal setting is the number of processors + 1.
WFE/STATUS_FREQUENCY	How frequently to update status	Optional	This is milliseconds, the default is 250. This is how long to wait before obtaining status from a remote node. Setting to -1 disables polling for status (which may yield better performance).
Profile			
PROF/DEBUG_MODE	Frequency distribution engine debug mode	Optional	Possible values include 0 not debug mode or 1 debug mode: default is not debug mode. The log is located at C:\Documents and

Option	Purpose	Source	Notes
			Settings\<USERID>\Local Settings\Temp.
PROF/PER_TABLE_BYTES	Frequency distribution engine per table bytes	Optional	Any numeric value. Default is -1 (frequency distribution engine default).
PROF/LOCK_RETRIES	SQLite repository connection attempts	Optional	Specifies the number of times to retry SQLite repository connection when a connect attempt times out or -1 to retry until a connection is established. Used by explorer too.
QKB			
QKB/PATH	Path to QKB	Required by QKB products	Path is set to the default QKB defined in application.
QKB/SURFACEALL	Surfaces all parse definitions	Optional	Default is NO. Note that the application start-up creates a blue fusion pool that sets the option for all consumers (Profile, Explorer and Nodes) with the exception of the Expression Engine, which continue to have its own initialization.
QKB/COMPATVER	Denotes which compatible version to use when interacting with QKB	Optional	Possible values: dfpower82, dmp21, and dmp22. Default: dmp22. Note that the application start-up creates a blue fusion pool that sets the option for all consumers (Profile, Explorer and Nodes) with the exception of the Expression Engine, which continues to have its own initialization.
QKB/ALLOW_INCOMPAT	Allow use of incompatible Quality Knowledge Base definitions	Optional	Default is NO. Note that the application start-up creates a blue fusion pool that sets the option for all consumers (Profile, Explorer and Nodes) with the exception of the Expression Engine, which continues to have its own initialization.
QKB/ON_DEMAND	Loads QKB definitions on demand	Optional	Default is YES. Note that the application start-up creates a blue fusion pool that sets the option for all consumers (Profile, Explorer and Nodes) with the exception of the Expression Engine, which continues to have its own initialization.
CUSTOMIZE/DISABLE_FILE_NOTIFICATIONS	Temporarily disables notifications	Optional	Read by ui.cfg when Customize starts. When QKB developers make numerous small changes to files in an editor while Customize is open, Customize sends a notification that warns that the file being changed and provides a

Option	Purpose	Source	Notes
			list of all the definitions that are affected. To temporarily disable these notifications, edit ui.cfg by adding CUSTOMIZE/DISABLE_FILE_NOTIFICATIONS=1.
Architect Client (UI) settings			
ARCHITECT/AutoPassThru	Client option to set mappings	Optional	Maintained by client; choices are 0 (target), 1 (Source and Target), and 2 (All).
Architect nodes, etc (Defined in ids.h)			
CLUSTER/BYTES	Specifies the bytes use when clustering	Optional	
CLUSTER/LOG	Specifies whether a clustering log is needed	Optional	
CLUSTER/TEMP	Specifies the cluster temporary path	Optional	
FRED/LOG	Specifies whether a FRED log is needed	Optional	
JAVA/CLASSPATH	Specifies the Java classpath	Optional	
JAVA/DEBUG		Optional	
JAVA/DEBUGPORT		Optional	
VERIFY/USELACS	Enables or disables the LACSLink processing	Optional	Locatable Address Conversion System (LACS).
VERIFY/USEELOT	Enables or disables the eLOT processing	Optional	
VERIFYINTL/CFG	Verifies the international addresses	Required by international verification	Path maintained by component installation.
VERIFYWORLD/CONFIGFILE	Specifies the path to the SetConfig.xml file that is used by the Address Verification (World 2) data job node. Use this option to change the	Required by Address Verification (World 2) data job node	For more information about this file, see the Data Management Studio documentation for the Address Verification (World 2) node.

Option	Purpose	Source	Notes
	default location of this file.		
VERIFYWORLD/DB	Specifies the Platon data path	Required for Platon	Path maintained by component installation.
VERIFYWORLD/UNLK	Specifies the Platon library universal unlock code	Required for Platon	Path maintained by component installation.
WEBSERVICE/CONFIG_FILE	Specifies a user-defined configuration file for the Web Service node and the HTTP Request node. This file can be used to increase the time-out value, for example.	Optional	For more information about the user-defined configuration file, see the FAQ topic: "What Can I Do About Time-Out Errors in Data Jobs with the Web Service Node or the HTTP Request Node?" in the <i>DataFlux Data Management Studio: User's Guide</i> .
dfIntelliServer			
DFCLIENT/CFG	Used for dfIntelliServer	Required	Maintained by dfIntelliServer installation; typical location is 'C:\Program Files\DataFlux\dfIntelliServer\etc\dfclient.cfg; modify the dfclient.cfg file to point to the server and port.
Repository			
REPOS/CREATE_SPEC_PATH	Specifies how to create the repository table or index	Optional	This specification provides a means of configuring the commands to create tables and indexes in the repository.
REPOS/FORCE_FILE_BASED	Repository SQLite usage	Optional	If set to true all SQLite access will go through dfsqLite instead of DAC.
REPOS/LOCK_RETRIES	Specifies the number of attempts to connect to a SQLite repository	Optional	Number of times to retry SQLite repository connection when a connect attempt times out or -1 to retry until a connection is established.
REPOS/TABLE_LIST_PATH	Repository XML table definition	Optional	The directory that should contain XML files for any tables the repository library should add on creation or update. If set we look in here for XML files that will contain repository table definitions, if not set we look in DFEEXEC_HOME/etc/reposcreate.

Option	Purpose	Source	Notes
Other			
EXPRESS_MAX_STRING_LENGTH	Specifies the maximum size of strings declared in expression nodes	Optional	Default maximum length of any string in this node is 5,242,880 bytes (5MB). This enables specifying a larger value in bytes. If performance issues arise, the suggested setting is 65536 bytes.
EXPRESSION/UDFDIR	Specifies where to look for UDF files	Optional	If not specified, UDF files will be sought in installationdir/etc/udf.
JAVA/COMMAND	Command used to launch Java	Optional	Default is java. This is the command used to launch the java proxy process. The Java command must be compatible with launching from the command line. Here are some examples: JAVA/COMMAND = java JAVA/COMMAND = java -Djavax.net.ssl.trustStore=C:\Store\jssecacerts JAVA/COMMAND = java -Djavax.net.ssl.trustStore="C:\CertStore\jssecacerts" JAVA/COMMAND = "C:\Program Files\Java\jre6\bin\java"
MDM/REPOSITORY_ROOT_FOLDER		Optional	Name/location of the root folder for mdm within a repository. This one allows the "foundations/master_data" to be overwritten by the end user when putting the contents of [INSTALL_ROOT]/share/mdm into a repository.
STEPENG/PROFILEBYNODE	Specifies the performance profiler by node instance.	Use only for design and testing. Do not use in a production environment	When set to Yes, this gives you each node instance and how many milliseconds were spent on each of three operations (prepare, pre-testing, execute), and how many times each was entered. The ID will correspond to the iid field in the XML file for the job, and will include the job name so you can see embedded jobs. To turn on the functionality, go into your configuration files. To profile realtime services, update dfwsvc.cfg. To profile batch jobs, update dfwfproc.cfg. To profile from studio, update ui.cfg. To profile all three, update app.cfg. The results are written to the log under the DF.RTPProfiler heading at trace level. An example of the output is: NX,inner2.ddf,1,0,5 where the values represent action type

Option	Purpose	Source	Notes
			or operation (either NX - cumulative time spent processing rows, PR - time preparing, or PX - time pre-executing), job name, instance (iid field in the XML file), milliseconds, and entries (the number of times you've entered that code).
STEPENG/PROFILEBYTYPE	Specifies the performance profiler by node type.	Use only for design and testing. Do not use in a production environment	<p>When set to Yes, this setting provides you each node type along with how many milliseconds were spent on each of three operations (prepare, pre-execute, execute), and how many times each was entered.</p> <p>To turn on the functionality, go into your configuration files. To profile realtime services, update dfwsvc.cfg. To profile batch jobs, update dfwfproc.cfg. To profile from studio, update ui.cfg. To profile all three, update app.cfg. The results are written to the log under the DF.RTPProfiler heading at trace level.</p> <p>An example of the output is: NX,ARCHITECT_EMBEDDED_JOB,0,5</p> <p>where the values represent action type or operation (either NX - cumulative time spent processing rows, PR - time preparing, or PX - time pre-executing), node type, milliseconds, and entries (the number of times you've entered that code).</p>
SAP_LIBPATH	Specifies the location of SAP RFC libraries on UNIX only.	Optional	These shared libraries are installed to support the SAP Remote Function Call node, a data job node in Data Management Studio. For more information, see "Installing Support for the SAP RFC Node" topic in the DataFlux Data Management Studio Installation and Configuration Guide.

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. The DAC reads a list of settings to determine what actions to take, where to find various things it needs, and how to make the proper connections.



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

There are three types of DAC Configuration Directives:

Configuration options: Most of the DAC's settings come from configuration values as specified in app.cfg or other config files that are read in a specific sequence. It is recommended to put these settings in the app.cfg file, but they can be put in macro.cfg or another application-specific configuration file. See [Configuration Options](#) for a more comprehensive list of possible configuration values.

Registry: The DAC only looks in the registry for DSN-specific items. These are found in either or both HKEY_CURRENT_USER\Software\DataFlux\dac\{version}\{dsn} or HKEY_LOCAL_MACHINE\Software\DataFlux\dac\{version}\{dsn}. "dsn" in this case is a string with the same name as the DSN to be affected.

Environment variables: You can identify the environment variables with \$NAME in the following table. Typically, the application using the DAC will set environment variables to appropriate locations. On Windows, \$DFEXEC_HOME is set to the application's root directory.

Setting	Description	Windows	UNIX
Command file execution	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 implemented only for the ODBC driver.	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.	The same as Windows.
Connection and login timeout	Allows you to specify the time in seconds for a connection timeout and a login timeout.	The string type value is located in USER\dsn_name\logintimeout (or connecttimeout) where dsn_name is the name of the dsn. The string value is the number of seconds for the time out. If it does not find it, the	Not supported.

Setting	Description	Windows	UNIX
		DAC will look in the SYSTEM\dsn_name\logintimeout.	
DAC logging	Determines whether to create a log file for DAC operations.	This is controlled through the effective logging configuration files, which uses log4sas. The logger name "DAC" should be used.	The same as Windows.
DFTK log file	Specifies the log file that interacts with the DFTKSRV layer and is useful only for debugging issues specific to dftksrv. This setting is applicable only if you are running DFTK out of process.	Look for config value DAC/DFTKLOGFILE.	The same as Windows.
Disable CEDA	Specifies whether to disable CEDA. This setting is applicable only to tkts connections.	Look for DAC/DFTKDISABLECEDA configuration value, which should specify any non-null value, for example, yes.	The same as Windows.
Multiple active results sets (MARS)	Specifies whether to allow a connection to open multiple result sets at the same time. This is applicable only when using the SQL Server Native Client driver on Windows against an SQL Server 2005 (or later).	Look in USER\dsn_name\mars for dword value of 1 where dsn_name is the name of the dsn. If it does not find it, the DAC will look in the SYSTEM\dsn_name\mars.	Not applicable.
Oracle NUMBER(38) handling	If connected to Oracle (only), NUMBER(38) columns is treated as INTEGER by default. To override that functionality, treat them as REAL.	Look in USER\oranim38real for dword value of 1. If it is not found in USER, look in SYSTEM\oranim38real.	Look in \$HOME/.dfpower/dsn.cfg for a line dsn_name = oranim38real where dsn_name is the name of the DSN.
Read uncommitted	For SQL Server only, specifies that reading data from cursors is allowed to read uncommitted rows. This can alleviate lock ups in SQL Server (applies to DMP version 2.3 and beyond)	Look in USER\dsn_name\readuncommitted for dword value of 1. Where dsn_name is the name of the dsn. After looking in USER look in SYSTEM	Look in \$HOME/.dfpower/dsn.cfg for a line dsn_name = readuncommitted where dsn_name is the name of the DSN
Run DFTK out of process	Specifies whether to run TKTS out of process, allowing you to perform troubleshooting.	Look for config value DAC/DFTK_PROCESS. This should specify any non-null value, for example, yes.	The same as Windows.

Setting	Description	Windows	UNIX
Suffix for CREATE TABLE statements	This allows you to provide a string that is appended to every CREATE TABLE statement. If you include %t in this string, it is substituted with the table name.	Look in USER\ <i>dsn_name</i> \postcreate for a string where <i>dsn_name</i> is the name of the dsn. If it is not found in USER, look in SYSTEM.	Not supported.
System saved connection	Specifies where to find system saved connections.	Look in DAC/SAVEDCONNSYSTEM config value for a path. If it is not found, the DAC checks for the DFEXEC_HOME environment variable in the \$DFEXEC_HOME\etc\dsn subdirectory, which is in the installation directory.	Look for the same config value. If not found, look in the \$DFEXEC_HOME/etc/dsn subdirectory, which is in the installation directory.
TK Path	Specifies where TK files are located. This setting is applicable only if you are running Data Factory Took Kit (DFTK) out of process. The dftksrv path and core directory should be specified.	Look for config value DAC/DFTK_PROCESS_PATH. If still not found, set it to \$DFEXEC_HOME\bin;\$DFEXEC_HOME\bin\core\sasext.	Same as for Windows, but will set it to \$DFEXEC_HOME/lib/tkts if it is not found.
TKTS DSN directory	Specifies the path where TKTS DSNs are stored in XML files.	Look in config value DAC/DSN. If it is not found, look in \$DFEXEC_HOME\etc\dftkdsn\.	Look in the same config value. If it is not found, look in \$DFEXEC_HOME/etc/dftkdsn/.
TKTS log file	Specifies the log file that is produced by the TKTS layer and is useful for debugging tkts issues.	Look for config value DAC/TKTSLOGFILE.	The same as Windows.
TKTS startup sleep	Specifies how much time in seconds to delay between the start of the dftksrv program and the booting of TK. This setting is applicable only if you are running DFTK out of process.	The DAC checks the registry for a tktsleep value.	Not supported.
User saved connection	Specifies where to find user-saved connections.	Look in DAC/SAVEDCONNUSER config value for a path. If not found, look in the user's application settings directory, which is usually in the %APPDATA% directory, in the DataFlux\dac\version	Look for the same config value. If not found, look in the \$HOME/.dfpower/dsn directory.

Setting	Description	Windows	UNIX
		subdirectory. The %APPDATA% location is C:\Users\userid\AppData\ for Windows 7 and C:\Documents and Settings\userid\Application Data\ for Windows XP.	
Use braces	Specifies whether to enclose DSN items with braces when they contain reserved characters. Most drivers do not support use of braces; however, this might be an option if problems occur with saving credentials.	The DAC looks in USER\usebraces for dword value of 1. If it is not found there, the DAC looks in SYSTEM\usebraces.	Look in \$HOME/.dfpower/dsn.cfg for a line dsn_name = usebraces where dsn_name is the name of the DSN.

Logging Options

The following log files are provided for Data Management Studio:

- Studio log
- Platform log
- DAC log
- TKTS log

If enabled, the TKTS log will capture TKTS events for Data Management Studio, such as BASE data sets and data sent across the wire to the DataFlux Federation Server. The TKTS log provides a default set of information that cannot be customized.

The Studio log, the Platform log, and the DAC log are enabled by default. These logs use the SAS 9.2 Logging Facility, a flexible and configurable framework that you can use to collect, categorize, and filter events. Then you can write them to a variety of output devices. The logging facility supports problem diagnosis and resolution, performance and capacity management, and auditing and regulatory compliance.

The logging facility framework categorizes and filters log messages in SAS server and SAS programming environments. It also writes log messages to various output devices. In the server environment, the logging facility logs messages based on predefined message categories such as the following:

- Admin for administrative messages
- App for application messages
- Perf for performance messages

Messages for a category can be written to files, consoles, and other system destinations simultaneously. The logging facility also enables messages to be filtered based on the following thresholds, in order from most inclusive to least inclusive: TRACE, DEBUG, INFO, WARN, ERROR, and FATAL. The configuration files for the Studio log, the Platform log, and the DAC log contain a template for logging options. You need only to un-comment certain lines to turn on the corresponding options. For a full description of these options, see the *SAS Logging: Configuration and Programming Reference*.

The following table specifies the scope, level thresholds, and configuration location for each of these logs:

Name	Scope	Level Thresholds	Configuration Location
Studio	Data Management Studio events	TRACE, DEBUG, INFO, WARN, ERROR, and FATAL	By default, these are enabled. If you want to turn them off, comment out the BASE/LOGCONFIGPATH line in ui.cfg and in batch.cfg and restart Data Management Studio. For configuration, go to <i>drive:\Program Files\DataFlux\DMStudio\studio1\etc\platform.log.xml</i> and <i>drive:\Program Files\DataFlux\DMStudio\studio1\etc\dfwfproc.log.xml</i>
Platform	Data Management Studio engine events	TRACE, DEBUG, INFO, WARN, ERROR, and FATAL	
DAC	Data access events	TRACE, DEBUG, INFO, WARN, ERROR, and FATAL	
TKTS	TKTS events such as BASE data sets and data sent across the wire to Federation Server	Not configurable	<i>drive:\Program Files\DataFlux\DMStudio\studio1\etc\app.cfg</i>

By default, all Windows XP log files are written to *drive:\Documents and Settings\USERNAME\Application Data\DataFlux\DMStudio\[version]\Logs*. The default location in Windows 7 is *drive:\Users\[username]\AppData\Roaming\DataFlux\DMStudio\[version]\Logs*.

Also by default, the Studio, Platform and DAC logging are all logged to the platform log file. This log file has a name prefixed with *platform_*. The DAC logging can be redirected to its own log file by uncommenting the appender-ref setting in the logger section for *DF.DAC* and by uncommenting the RollingFileAppender section for *DacFile*. The latter contains the filename pattern that dictates where and what name the DAC log file takes. The Studio logging can be redirected to its own log file by uncommenting the appender-ref setting in

the logger section for *DF.DMStudio* and by uncommenting the *RollingFileAppender* section for *DMStudioFile*. The latter contains the filename pattern that dictates where and what name the Studio log file takes.

The Studio, Platform and DAC logging all use a logging level of INFO by default. This level is set in the root logger section of the *platform.log.xml* configuration file. The level value can be changed here to change the default for all three logs. In addition, the logging level for the DAC and Studio logs can be set separately in the *DF.DAC* and *DF.DMStudio* logger sections respectively by uncommenting (and possibly updating) the level values in each.

The *platform.log.xml* file controls all of Studio, Platform and DAC logging within the Data Management Studio application except for job runs. When you run a job within Data Management Studio, Data Management Studio creates a separate *dfwfproc* process for that job run. Therefore, to configure logging for jobs run from Data Management Studio, you should modify the *dfwfproc.log.xml*.

Installing Add-On Products

- [Installing QKBs and Data Packs](#)
- [Installing Supplemental Language Support](#)
- [Installing the Address Update Add-On](#)
- [Installing Support for the SAP RFC Node](#)

Installing QKBs and Data Packs

A Quality Knowledge Base (QKB) is a collection of files that define rules, patterns, and transformations that are used for data cleansing. Data Packs are collections of third-party enrichment data, such as Loqate international address data. QKBs and DataPacks are not installed as part of the SAS Deployment Wizard process. If you have licensed a QKB or a Data Pack, go to MyDataFlux Portal to download and install these products. Use the Release Notes for your QKBs in order to verify that they are compatible with your version of SAS software.

QKB: <http://www.dataflux.com/qkb>

DataPacks: <http://www.dataflux.com/Resources/DataFlux-Resources/MyDataFlux-Portal/Downloads/Data-Updates.aspx>

After you install a QKB, see the "Using Quality Knowledge Bases" chapter in the *DataFlux Data Management Studio: User's Guide* to enable Data Management Studio to access the QKB. After you install a data pack for a feature in Data Management Studio, see the topic for that feature in the *DataFlux Data Management Studio: User's Guide* to enable Data Management Studio to access the data pack.

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.

Installing the Address Update Add-On

The DataFlux® Address Update add-on enables you to use the United States Postal Service (USPS) NCOALink® system to identify and update customer address information. To install the required resources for this add-on, see the *Address Update Add-On to Data Management Studio Quick Start Guide*. This document is provided to customers who license the Address Update add-on.

Installing Support for the SAP RFC Node

If you open a data job in Data Management Studio, the **SAP Remote Function Call** node is available in the **Data Integration** folder. This node enables you to read and write data using SAP RFC and Business Application Programming Interfaces (BAPI) provided by SAP. This functionality would be useful to

- read information from SAP that is not readily available in tables
- use the functionality that SAP exposes as BAPIs
- load data to SAP by using SAP-provided functions that are a standard way of updating objects
- trigger an upload to SAP by using functions that take, for example, an external file input.

In order to use the SAP Remote Function Call node, you must install SAP libraries (DLLs) on the computer where the job that contains the node will be executed. For example, if you will use Data Management Studio to execute a job with an **SAP Remote Function Call** node, then you must install the SAP libraries on the computer where Data Management Studio is running. If you will use Data Management Server to execute a job with an SAP Remote Function Call node, then you must install the SAP libraries on the computer where Data Management Server is running.

Data Management Studio is a 32-bit application and so requires 32-bit SAP libraries. See the SAP documentation for details about installing these libraries.

Data Management Servers can be either 32-bit or 64-bit. See the SAP documentation for details about installing the appropriate libraries.

Data Management Studio is a Windows application, but Data Management Servers can run on UNIX. For UNIX systems only, you can set the SAP_LIBPATH option in the app.cfg file to point to the SAP DLLs.

Technical Support

- [Frequently Asked Questions](#)

Frequently Asked Questions (FAQ)

The following questions and answers are designed to assist you when working with Data Management Studio.

- [System Requirements](#)
- [Supported Platforms](#)
- [Data Storage](#)
- [Repository Storage](#)
- [Logging Options](#)

System Requirements

What are the recommended system requirements for Data Management Studio?

The recommended system requirements for Data Management Studio can be found in [System Requirements](#).

Supported Platforms

On what platforms can I install Data Management Studio?

Data Management Studio can be installed on many different platforms. For the full list of supported platforms, see [System Requirements](#).

Data Storage

From what databases can DataFlux Data Management Studio access data?

Data Management Studio can access data from any of the databases listed in the [Data Storage](#) topic.

Repository Storage

What databases are supported for Data Management Platform repositories?

Data Management Studio can access data from any of the databases listed in the [Database Storage for Repositories](#) topic.

Logging Options

What options do I have for logging?

See the [Logging Options](#) section for the scope, level thresholds, and configuration location for the available logs.

Appendixes

[Legal Notices](#)

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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.

Use of WSDL4J is governed by the terms and conditions of the Common Public License Version 1.0 (CPL). A copy of the CPL can be found here at <http://www.opensource.org/licenses/cpl1.0.php>.

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

Data Management 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 is 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 Data Management 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 Data Management Studio Navigator and accessed by the Data Management 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 Data Management 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 Data Management Studio 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 Data Management Studio. 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 Data Management Studio 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.