SAS® Decision Manager 5.1: What’s New

Key Features

SAS Decision Manager 5.1 has been redesigned in HTML5 and runs on SAS Viya. The functionality of SAS Business Rules Manager has been incorporated into SAS Decision Manager. With SAS Decision Manager 5.1, you can manage both business rule sets and decisions.

SAS Decision Manager 5.1 is integrated with SAS Model Manager, SAS Environment Manager, SAS Data Explorer, and SAS Visual Analytics. For more information, see “Integration with SAS Applications” on page 2.

Note: SAS Decision Manager 5.1 does not support complex rule sets (using BY-groups), DATAGRID variables or filtering output records based on whether a rule fired. SAS Decision Manager 5.1 is not integrated with SAS Lineage or SAS Workflow Manager.

Key features and enhancements enable you to do the following:

- publish content to SAS Cloud Analytic Services (CAS), Hadoop, SAS Micro Analytic Service, and Teradata
- edit decisions by using a graphical decision editor
- include rule sets directly in decisions, which eliminates the need to build rule flows
- open models and rule sets in the decision editor
- create major and minor versions of decisions and lookup tables
- activate a specific version of a lookup table
- manage the variables (vocabulary) used by rule sets and decisions by importing the variables and dynamically creating custom variables
- run rule-fired analyses and decision path tracking analyses for decisions
- specify literal values for variables in rule set tests and decision tests instead of mapping variables to table columns
- edit expressions as free-form text
- use RETURN action in a rule set, which causes execution to exit the current rule set.
Integration with SAS Applications

SAS Decision Manager 5.1 is integrated with the following SAS applications:

**SAS Model Manager**
SAS Model Manager enables you to manage the lifecycle of a model. You can validate model scoring logic, set champion and challenger models, and monitor and report on model performance. You can store models in a common model repository and organize them within projects or folders. For more information, see [SAS Model Manager: User’s Guide](#).

**SAS Environment Manager**
You use SAS Environment Manager to manage user and group identities, authorization, configuration properties, and more. You can set permissions for object types such as rule sets and folders, for specific objects, or for both. Only one user group, SASScoreUsers, is automatically created when SAS Decision Manager is installed. For more information, see “Managing Permissions” in SAS Decision Manager: Administrator’s Guide and “Configuration Properties” in SAS Decision Manager: Administrator’s Guide.

**SAS Data Explorer**
SAS Data Explorer enables you to import data, connect to databases, and load tables into memory. For more information, see [SAS Data Explorer: User’s Guide](#).

**SAS Visual Analytics**
SAS Visual Analytics supports a range of visualization, discovery, and reporting features. For more information, see [SAS Visual Analytics: Overview](#).

**Note:** The applications that are available to you depend on whether the applications are installed at your site and on your permissions.

Publish Rule Set and Decision Content

You can define publishing destinations for SAS Cloud Analytic Services (CAS), Hadoop, SAS Micro Analytic Service, and Teradata. By default, a SAS Micro Analytic Service destination is defined for you. You can define other publishing destinations as needed. For more information, see the following documentation:

- “Publish a Decision” in SAS Decision Manager: User’s Guide
- “Publish a Rule Set” in SAS Decision Manager: User’s Guide
- “Configuring Publishing Destinations” in SAS Decision Manager: Administrator’s Guide

Use the Graphical Decision Editor

SAS Decision Manager 5.1 includes a graphical decision flow editor in addition to a list-type decision editor. The graphical editor enables you to create and edit decisions as process flow diagrams. The list-type editor provides a linear view of decisions. You can switch between the views according to your preference. For more information, see “Views for Editing a Decision” in SAS Decision Manager: User’s Guide.
Edit Expressions as Free-Form Text

SAS Decision Manager provides an easy-to-use interface for entering condition and action expressions. If you prefer to enter expressions directly, you can use the expression editor to enter free-form text. For more information, see “Define Expressions for a Rule” in SAS Decision Manager: User’s Guide.

Activate Lookup Tables

You can activate a specific version of a lookup table. When you activate a lookup table, any rule set or decision that references that rule set uses the specific version that is active. For more information, see “Activate a Lookup Table” in SAS Decision Manager: User’s Guide.

Manage Variables

You do not have to define vocabularies, entities, and terms before you create rule sets. Instead, you can import variables from data sources, rule sets, and decisions. Also, you can dynamically define new variables as you author business rules.

- “Managing the Variables in a Rule Set” in SAS Decision Manager: User’s Guide
- “Managing the Variables in a Decision” in SAS Decision Manager: User’s Guide

Run Rule-Fired and Decision Path Tracking Analyses

After you run a decision test, you can run a rule-fired tracking analysis and a decision path tracking analysis. Rule-fired data includes summary information about how many times each rule fired and detailed information for each time that a rule evaluates to True. Decision path tracking shows you the route that input records take through the rule sets and conditions in your decision. For more information, see “Testing a Decision” in SAS Decision Manager: User’s Guide.