

IBM Operational Decision Manager



What's new in ODM 8.10

Updated on January 9, 2019

Release highlights

Increased business
productivity

**Ease of use and speed to
model decisions with
Decision Modeling**

Enhanced decision quality

**Custom Simulation KPIs,
Execution sequence in test
reports**

Improved Administration

**Outbound Decision Center
events notification,
Enriched diagnostic page in
Decision Center**

Ease of use and speed to model decisions

Modeling is lowering the barrier of entry to Decision Automation

- Simpler **modeling/execution** is driving the adoption and the expansion of Decision Management
- The DMN standard has open the door to simplification and interoperability

“

Recent methodology advances have included the Decision Model and Notation (DMN) modelling standard to provide equivalent benefits to the field of decision automation as does Business Process Model and Notation (BPMN) to business process modeling.

Hype Cycle for Platform as a Service, 2017

Gartner

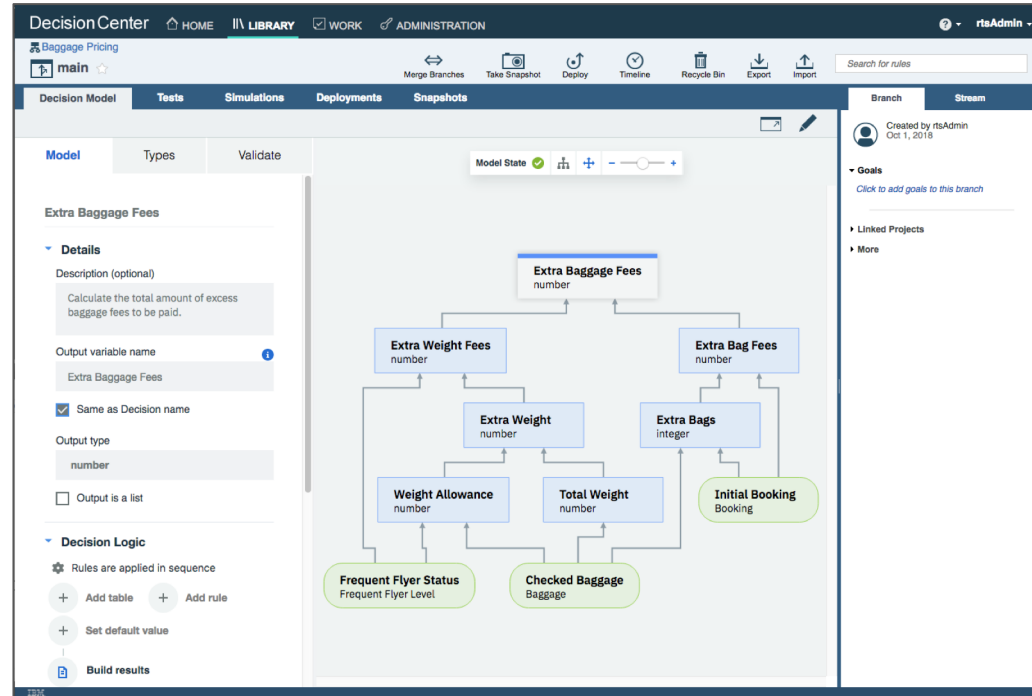
Decision Modeling puts business users in the driver's seat

- Enable business users to start discovering and modeling their decisions on their own
- Business rule analysts can specify and maintain decision logic through a methodology that is similar to the way they think
- Business users can progressively elaborate their business model and decision logic at the same time
- Decisions can be authored and validated simultaneously
- Modeled decisions can be instantly consumed by enterprise applications
- Built-in guided experience, digital resources, industry samples soften learning curve

Decision Modeling is now in ODM Decision Center

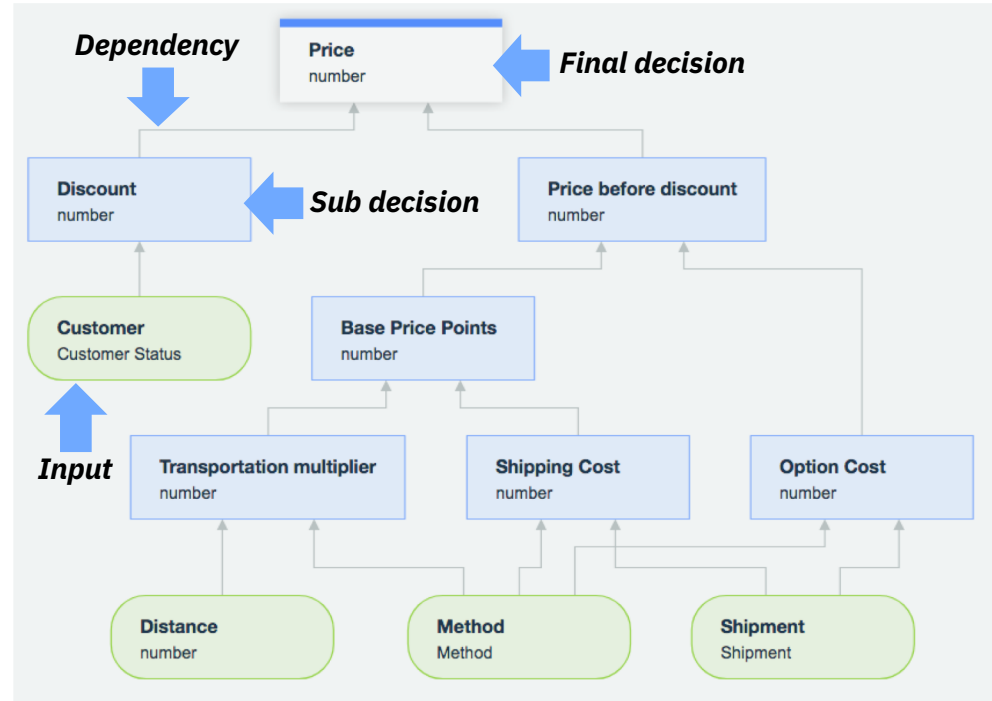
In a nutshell, business experts can:

- Leverage application examples in various industries
- Create brand new decision services
- Model data, decision diagrams and logic iteratively
- Validate what's been authored
- Test, simulate, manage, govern, etc.
- Deploy!



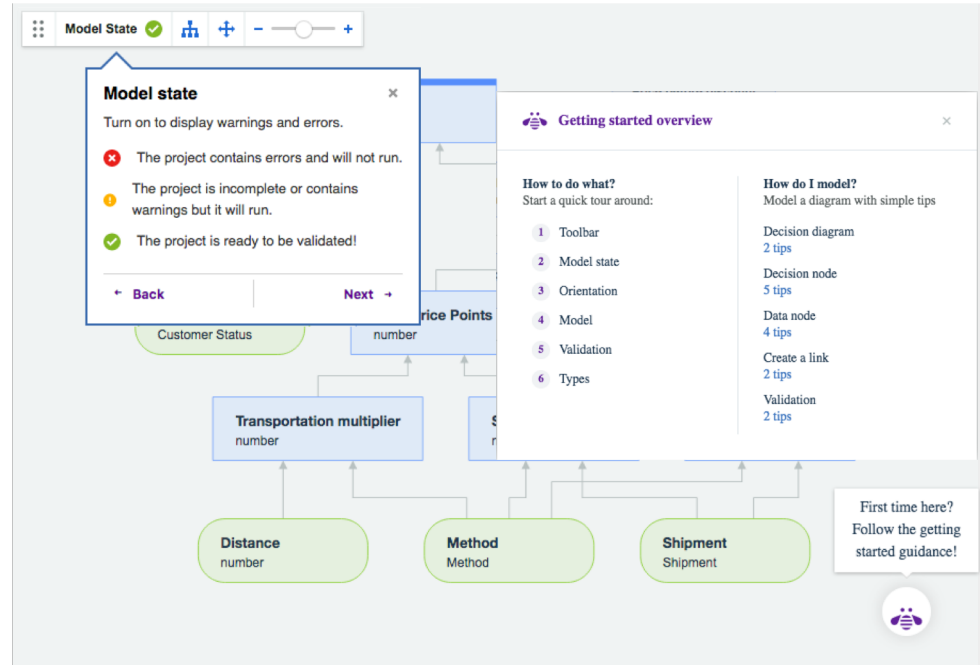
Top-down modeling

- Decompose decisions, top to bottom
- Specify dependencies between sub-decisions
- Identify data inputs for decision
- Specify and elaborate business model interactively
- Then, describe the logic through decision tables and rules



Easy to learn

- Get started easily through guided experience
- Methodology guide for business users
- Digital content and enablement materials
- Learning through pre-canned industry samples



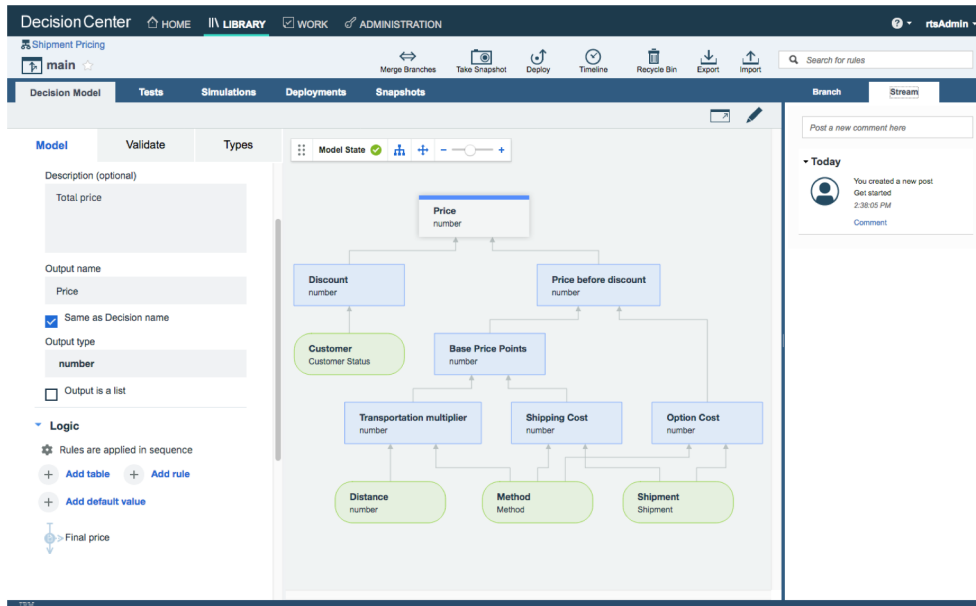
Best of DMN, powered by ODM

– Best of DMN

- Easy-to-use formalism
- Standard approach
- Dependency diagram
- Support for decision tables
- Support for business rule language

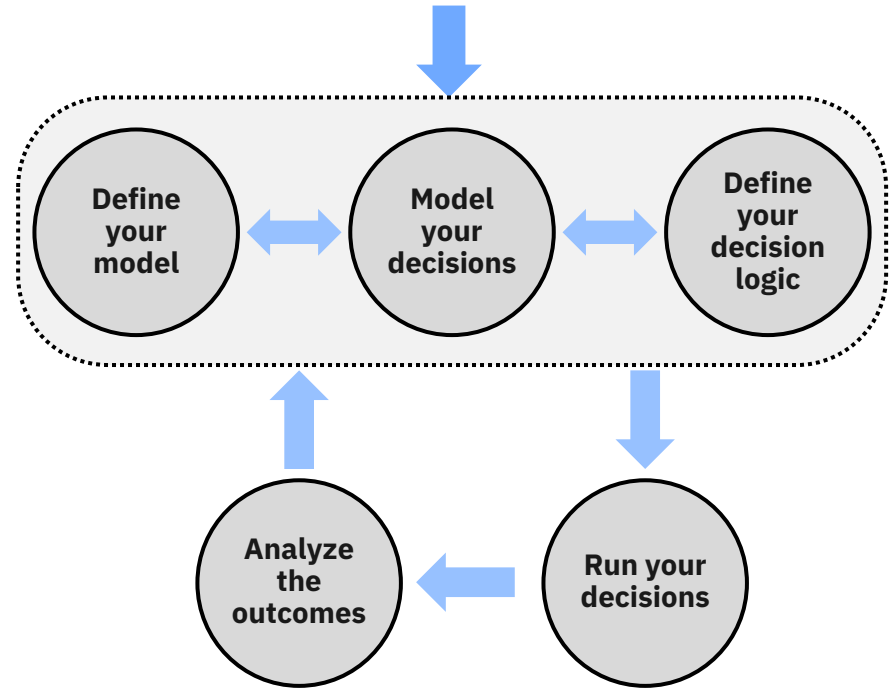
– Powered by ODM

- Support for executable decisions
- Support for change management
- Production-ready



Iterative modeling and authoring

- Start from top decision and build dependencies
- Create and change data model at any time
- Specify logic through tables and rules
- Try and validate decisions on the fly
- Keep restructuring and refining without any constraints



In-place validation of authored decisions

- Try your decisions within the authoring environment
 - Prepare some test cases
 - Run and see resulting decision
- Troubleshoot logic definition
 - See inputs and outputs for each sub-decision
 - Easily navigate between results and diagram

The screenshot shows the 'Decision Center' interface with the 'Shipment Pricing' model selected. The 'Validate' tab is active, displaying the 'Letter Ground' data set. The 'Inputs' section on the left lists the following values:

- Shipment
 - weight: 0.9
 - size: Pack1
- Customer: Silver
- Method: pickup

The 'Outputs' section on the right shows the 'Price output' as 33.93. Below this, the 'Run history' table provides a detailed view of the decision process:

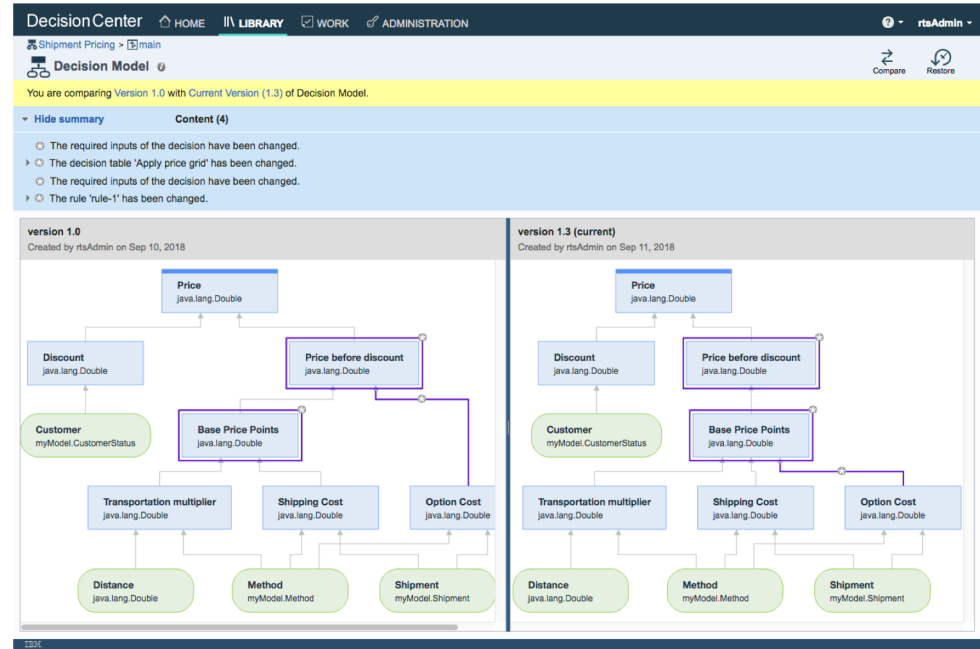
Node	Type	Rule Interaction	Output	Rules
Price	number	sequence	33.93	1
Price before	number	sequence	36.4854000000000006	1
Discount	number	sequence	0.07	1
Base Price	number	sequence	29.400000000000002	1

Inputs

Outputs

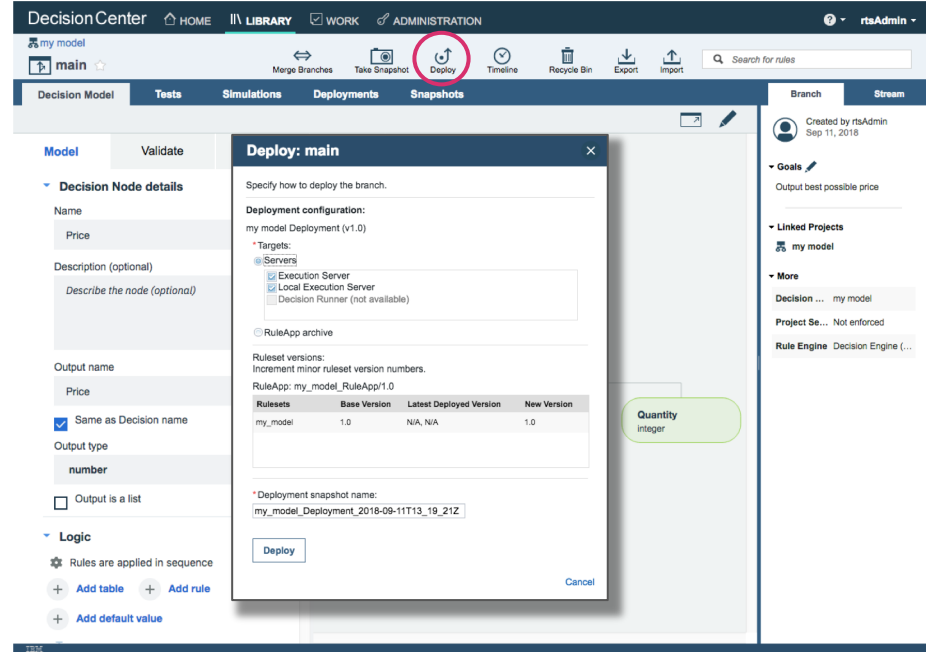
Governance, Change management, Testing and Simulation

- Decision models can be tested, simulated and governed like any other artifact
- Version control and history
- Compare versions of decision models
- Clear understanding of changes



Instant deployment

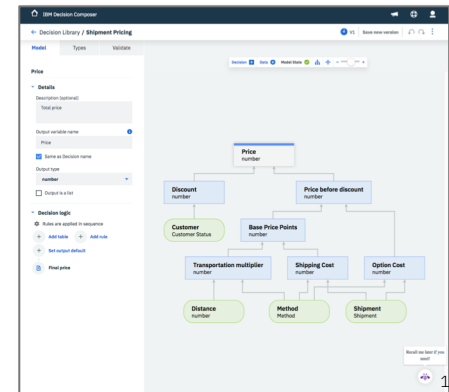
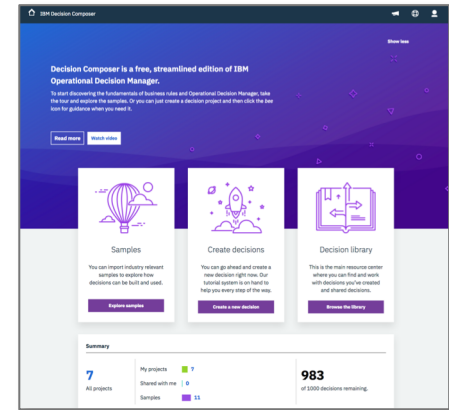
- Valid decision models can be deployed and executed right away
- Standard deployment configuration created by default
- Business Object Model created automatically



Discover Decision Modeling with Decision Composer (exp)

- Decision Composer is a free, streamlined edition of IBM Operational Decision Manager modeling capability
- Used to easily demonstrate, learn and try decision modeling on the cloud. No installation.
- What's been authored in Decision Composer can be transferred to any flavor of ODM

<https://ibm.biz/DecisionComposer>



Pre-canned examples, to get started quickly

The screenshot displays the IBM Decision Composer web application. At the top, a dark blue header bar contains the IBM Decision Composer logo on the left and navigation icons (notifications, settings, and user profile) on the right. Below the header, a white breadcrumb trail shows a back arrow followed by 'Decision Library / Import samples'. A purple 'Import' button is located in the top right corner of the main content area. The main content area has a light gray background and features the instruction 'Select one or more samples to import to the Decision Library'. Below this instruction is a grid of ten sample cards, each with a title and a brief description. The cards are arranged in two rows of five. The first row includes 'Greetings', 'Runner', 'Car Rental', 'Loan Validation', 'Address Cleansing', and 'Baggage Pricing'. The second row includes 'Baggage Pricing and Compli...', 'Customer loyalty', 'Shipment Pricing', 'Shopping Cart', and 'US Sales Tax'. The bottom right corner of the interface features a decorative purple-to-white gradient shape.

IBM Decision Composer

← Decision Library / **Import samples** **Import**

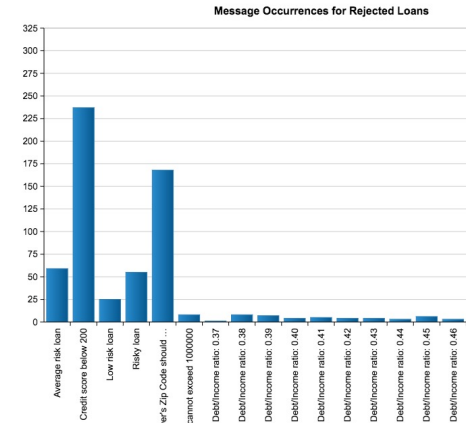
Select one or more samples to import to the Decision Library

Greetings Compose greetings from data such as current hour and gender.	Runner Recommend races for runners, based on their weekly mileage, average speed, and...	Car Rental Model decisions for a car rental company when a client returns a car. Inform...	Loan Validation Validate loans based on the borrower data and compute insurance rates for the...	Address Cleansing Analyze and clean an address record.	Baggage Pricing This decision service determines the total amount of excess baggage fees that...
Baggage Pricing and Compli... This decision service does two things: 1. Determine the total amount of excess...	Customer loyalty Apply the highest discount to the shopping cart of a customer based on current...	Shipment Pricing Price shipment based on multiple criteria, including distance, size, weight,...	Shopping Cart The shopping cart of a customer, which contains a list of items. An item has a...	US Sales Tax Estimate the gross price of an item based on State and local tax rates.	

Improved visibility and control for Business Console users

Increased visibility on business outcome with custom KPIs for decision service simulations

- Simulations in Business Console are simple to use:
 - Business language to express metrics and KPIs
 - No dev required
- Pain point: some users need more flexibility to define their KPIs
- **Solution: support for custom KPIs defined with Java**
 - With custom code handling computation and custom HTML display
 - Dynamic: no Decision Center repackaging needed
 - It addresses the gap with deprecated DVS simulations



New visibility on how a test scenario was executed

- Problem solved:
 - No visibility on the complete execution sequence (tasks + rules) for a test run
- **Solution: a new panel showing the execution sequence in a test report**
 - Executed tasks and rules combined
 - Embedded view for each executed rule

The list of rules fired

This dialog presents the list of tasks and rules in the order they are executed.

Execution sequence

Fired rules

loanvalidation

initResult

validation

computation

eligibility

eligibility.grade - row 2

eligibility.approval

insurance

insurance.unvalidated action rule

insurance.insurance - row 2

insurance.defaultInsurance

Preview eligibility.grade

	Yearly repayment		Corporate score		Grade	Message
	Min	Max	Min	Max		
1	0	10,000	≥ 900		A	Very low risk loan
2	0	10,000	600	900	A	Very low risk loan
3	0	10,000	300	600	B	Low risk loan
4	10,000	30,000	≥ 900		A	Very low risk loan
5	10,000	30,000	600	900	B	Low risk loan
6	10,000	30,000	300	600	C	Average risk loan
7	30,000	60,000	≥ 900		B	Low risk loan
8	30,000	60,000	600	900	C	Average risk loan
9	30,000	60,000	300	600	D	Risky loan

Enhanced visibility on updates within Decision Center

– Problem solved:

- Limited visibility on what others are doing in Decision Center
- No notification outside Decision Center

– **Solution:** **you can receive notifications in your favorite tools**

- Via emails, Slack, etc.
- For common Decision Center events:
 - Changes in governed releases and activities
 - Rule updates
 - Decision service deployments
- Sample with Slack integration

#decisioncenter-events
☆ | 5 | 0 | Add a topic Today

ODM Decision Center APP 4:53 PM
 Ruleapp mydeployment deployed - Status: failed
Decision Service: Miniloan Service
Deployment report: [Report 2018-09-20_04-52-58-565](#)
Decision Center | Paul | Sep 20, 2018 4:53:04 PM

Rule artifact [Test](#) was deleted in project 'Miniloan Service' from decision service 'Miniloan Service'
Decision Center | Paul | Sep 20, 2018 4:55:19 PM

Ruleapp mydeployment deployed - Status: completed
Decision Service: Miniloan Service
Deployment report: [Report 2018-09-20_04-55-31-977](#)
Decision Center | Paul | Sep 20, 2018 4:55:33 PM

4:56 PM **Activity [July activity](#) created (In progress)**
Prepare national days.

Due date	Owner
Oct 4, 2018	Paul
Approvers	Authors
Paul	Bea

Decision Center | Paul | Sep 20, 2018 4:56:40 PM

Improved information for Decision Center administrators

– Problem solved:

- View on Decision Center configuration still in Enterprise Console
- No visibility on artifact count when using ODM on Cloud or considering a move from ODM on-premises

– **Solution:**

Enriched Diagnostics page, now in Business Console

- Rich view and diagnostics on Decision Center configuration
- New detailed section on artifacts counts, similar to the ODM on Cloud metric for Decision Center

The image shows two overlapping screenshots from the IBM Decision Center interface. The top screenshot displays the 'Diagnostics' page, which provides a health check for the Decision Center instance. It includes a 'Run as' button and a table with columns for 'Diagnostic', 'Status', and 'Details'. The bottom screenshot shows the 'Artifact Counts' page, which lists various artifacts and their counts. Both pages indicate that all components are in a 'Good' status.

Diagnostic	Status	Details
> About	Good	
> System	Good	
> Decision Model	Good	
> Data source	Good	
> Extensions	Good	
> Verbalizers	Good	
> Database	Good	
> Artifact Counts	Good	
> Projects	Good	

Artifact	Count
Total artifacts	739
BOM	16
BOM to XOM Mapping	16
Decision Operation (Business Console)	10
Deployment Configuration (Business Console)	1
Query	125
Resource	13
Rule Artifact	486
Ruleflow	12
Scenario suite	1
Template	19
Variable Set	12
Vocabulary	28

Artifact counts

Other feature updates in ODM 8.10

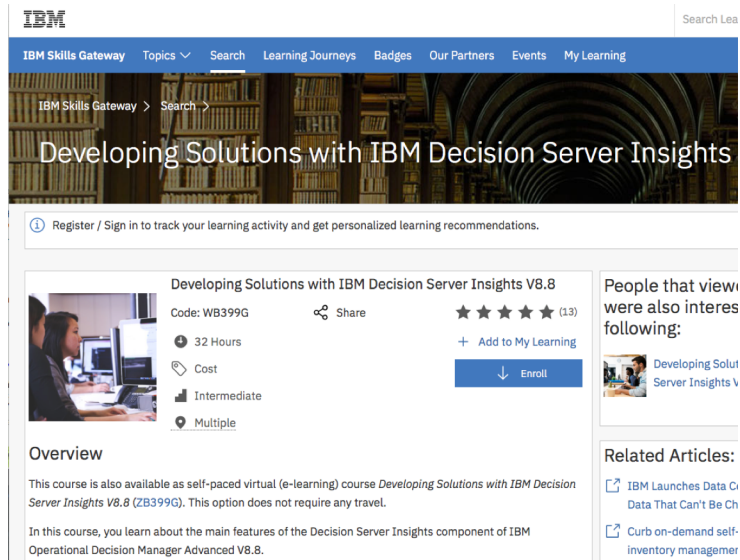
Decision Server Insights made cheaper and easier to use

- **Single runtime configuration to get started with DSI at lower cost**

- Only one DSI server is now needed for non HA deployments

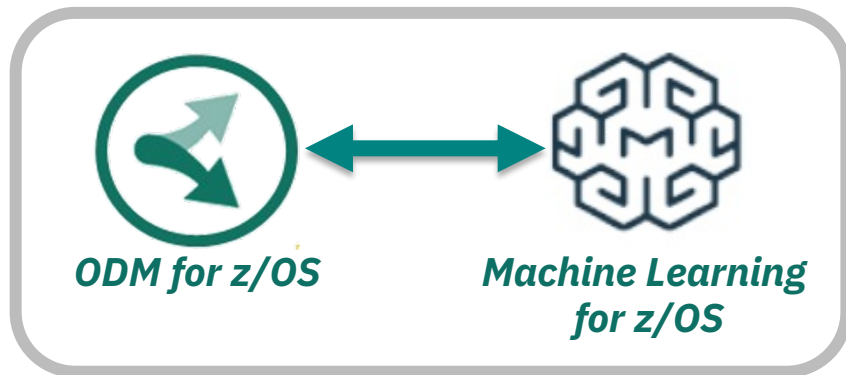
- **DSI Training updated**

- Updated best practices including the use of data offloading
 - With data offloading clients can use DSI to detect situations on millions of ‘entities’ while keeping the number of servers small.
- Delivery planned for December 2018



The screenshot shows the IBM Skills Gateway interface. At the top is the IBM logo and a search bar. Below is a navigation bar with links: IBM Skills Gateway, Topics, Search, Learning Journeys, Badges, Our Partners, Events, and My Learning. The main header area features a background image of a library and the title 'Developing Solutions with IBM Decision Server Insights'. A banner below the header encourages users to 'Register / Sign in to track your learning activity and get personalized learning recommendations.' The course card for 'Developing Solutions with IBM Decision Server Insights V8.8' is displayed, showing its code (WB399G), duration (32 Hours), cost (Intermediate), and a 'Multiple' deployment option. It includes a 'Share' button, a star rating (1.3), and buttons to 'Add to My Learning' and 'Enroll'. An 'Overview' section below the card states that the course is also available as a self-paced virtual (e-learning) course and describes the content. On the right side, there are sections for 'People that view were also interested in' and 'Related Articles'.

Digital decisioning with Machine Learning for z/OS



***“Insight-To-Action Cycles
Crucial For Digital Business”***

Forrester

- **Leverage insights coming from Machine Learning**
- **With high speed, in process call from decision services to predictive scores**
- Through integration between ODM for z/OS and IBM Machine Learning for z/OS

Platform updates and removals

Better experience for developers

- Rule Designer and Insights Designer now based on recent Eclipse 4.7.3

New supported platforms:

- WAS 9 and Liberty 18.0.0.3
- IBM Cloud Private 3.1
- MQ V9 (for DSI)

Platform removals:

- Java 7
- Some old platforms (OS, DBs, AppServers), including Windows 7 and IE 11
- ODM Pattern for PureApplication
 - Customers encouraged to transition to IBM Cloud Private
 - Still supported in ODM 8.9.2.x

Check the [ODM system requirements](#) on Dec 7

Switch to Continuous Delivery

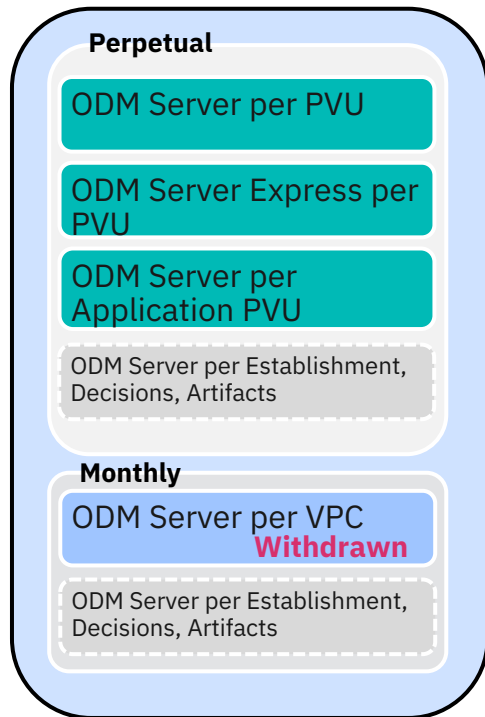
ODM 8.10 uses the IBM Continuous Delivery model

- IBM describes its Continuous Delivery (**CD**) lifecycle policy [here](#). Objectives:
 - **Make new functions available more frequently**, through **CD update** packages
 - Provide an **option for longer support** for some update versions, by declaring them as Long Term Support Release (**LTSR**)
 - Deliver defect fixes and security updates only for the two, most current CD updates and all active LTSRs.
- ODM 8.10 is adopting CD. Main implication is on support policy:
 - IBM declares **minimum of 3 years support** for 8.10.x from Dec 2018 + **optional 2 years of extended support**
 - IBM declares ODM 8.10 (8.10.0) as a CD update (not LTSR)
- No change to previous releases: they remain on IBM enhanced support policy (5+3 years)

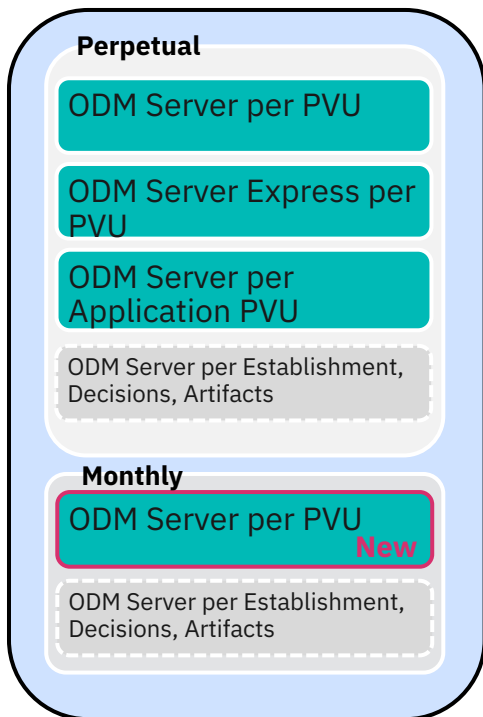
Pricing updates

Licensing Options for ODM

ODM v8.9.2



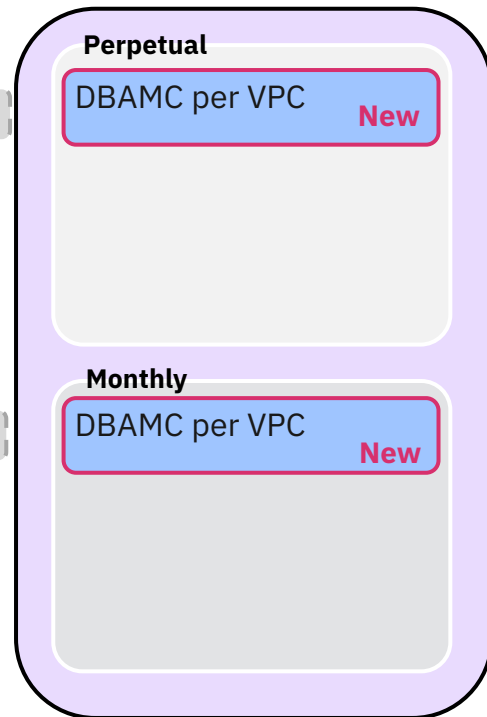
ODM v8.10



Trade-Up
from PVU

Trade-Up
from PVU

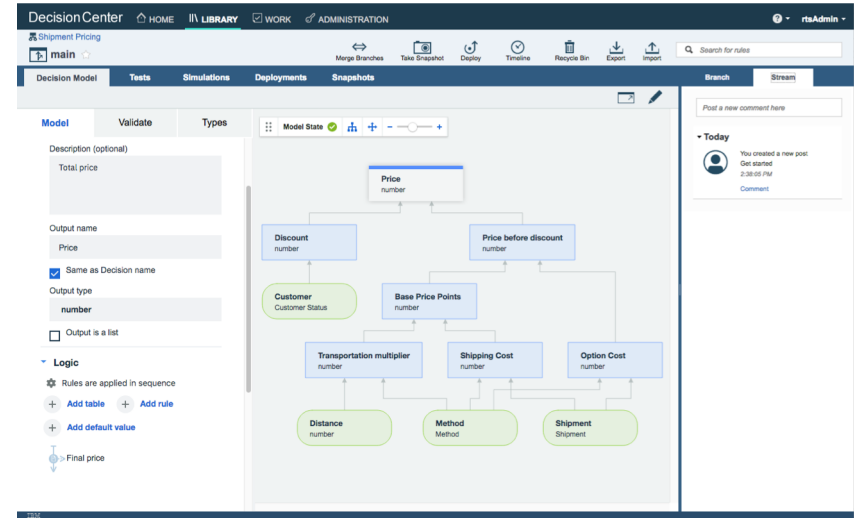
DBA for Multicloud (DBAMC) v18.0



Summary

“IBM is still heavily investing in Decision Management”

- This new ODM release
 - A major release on all form factors
 - Decision modeling is a key capability that will be available in all flavors of ODM
 - Improvements at all levels (Decision Center, DSI, z/OS)



ODM Developer Center

URL: <http://developer.ibm.com/odm/>

A few recent **Blogs**

- *IBM Operational Decision Manager v8.7.1 Pattern*
 - *Making IBM ODM Decision Services portable across z/OS and distributed platforms*
 - *ODM Insights for Airports and Flight Tracking*
 - *ODM Business Rules samples for Healthcare and Government*
 - *Event Driven Architecture and Decision Management*
 - *ODM Business Rules samples for Banking available*
- and much more...

Get your questions answered from **Forum**

Learn new features / How-to from **Videos**

Find, use, and contribute ODM sample **Assets**

Other supplemental **Docs**

