



TIBCO® Offer and Price Engine

Release Notes

Version 6.0.0

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About This Product

TIBCO® Offer and Price Engine is a cloud-native, in-memory omnichannel server of offers and prices for digital service providers. It answers requests from a digital service provider's customer-facing channels for offers and prices, subject to business rules such as customer eligibility and product compatibility.

TIBCO Offer and Price Engine is the next generation of, and partially replaces, TIBCO® Fulfillment Order Management. To better align the direction of TIBCO Fulfillment Order Management with market demand, the product's capabilities have been reorganized into two new products:

- TIBCO® Order Management
- TIBCO® Offer and Price Engine

Customers who are currently on maintenance for TIBCO Fulfillment Order Management are entitled to upgrade to both TIBCO Order Management and TIBCO Offer and Price Engine. TIBCO will continue to support TIBCO Fulfillment Order Management, and there is currently no plan to retire TIBCO Fulfillment Order Management. New capabilities will be developed in TIBCO Order Management and TIBCO Offer and Price Engine.

New Features

The following feature has been added in this release of TIBCO Offer and Price Engine.

Recommendation Engine

A recommendation engine is a type of mechanism that uses machine learning algorithms and suggests the most relevant products to a particular user or client. It works on a principle to find patterns in the behavior data of users that are collected in various ways.

Based on customer's purchase history, most relevant offers are recommended. Also, based on customer's catalog, similar products are recommended. This recommendation can be a comparably higher-end product than the one is in possession by the customer. This type of recommendation is called as upselling.

Similarly, there can be recommendation of products those fulfill additional complementary needs compared to the original items. This type of recommendation is called as cross-selling.

For more details on recommendation engine, see the 'Recommendation Engine' topic in the *TIBCO® Offer and Price Engine User Guide*.

Changes in Functionality

No functionality changes have been made in this release of TIBCO Offer and Price Engine.

Deprecated and Removed Features

No features have been deprecated or removed as of this release of TIBCO Offer and Price Engine.

Migration and Compatibility

The following information provides migration procedures and a compatibility matrix for this release of TIBCO Offer and Price Engine.

Migration of TIBCO Offer and Price Engine 5.1.0 HF-4 to TIBCO Offer and Price Engine 6.0.0 is supported.

For migration procedure, see 'Migrating to TIBCO Offer and Price Engine 6.0.0' topic in the *TIBCO® Offer and Price Engine Installation and Configuration* guide.

Closed Issues

The following issues have been fixed in this release of TIBCO Offer and Price Engine.

Key	Summary
OPES-2168	The documentation for the default values of OPE-Application properties is updated in the <i>TIBCO® Offer and Price Engine Installation and Configuration</i> .
OPES-2060	An enhancement has been made so that you can apply filters to the characteristics for the GetProductInformation OPE requests.
OPES-1609	An enhancement has been made in TIBCO Offer and Price Engine for the Services startup with the retry mechanism.
OPES-1606	The issues observed with copy-required-files.sh files are now fixed.
OPES-1605	A typo error has been fixed in the yaml file of the helm charts scripts.
OPES-1604	The helm script has been enhanced in such a way that you can now select the component to be installed by the script.
OPES-1602	The helm chart scripts have now been made generic for the Loadbalancer usage.
OPES-1586	Support for RHEL-8 has been added in TIBCO Offer and Price Engine 5.1.0_HF-003.
OPES-1509	The "authorizationServiceTokenSwaggerEndPoint" property is introduced to resolve the authorization issue in the Swagger UI.
OPES-1488	The log4j has been upgraded from 2.16 to 2.17 version.
OPES-1374	Now the same ProductId with different ProductIdExt characteristics can be managed in TIBCO Offer and Price Engine.

Key	Summary
OPES-1318	While running the PostgreSQL database scripts, error messages are displayed.
OPES-1283	When TIBCO Offer and Price Engine is deployed in containers such as Docker and Kubernetes, an out-of-memory error for Java Heap space occurs.
OPES-1244	The service level and resource level metrics can be viewed through the API monitoring system.
OPES-1221	Icelandic characters are not displayed correctly in TIBCO OPE.
OPES-1220	The ProductRequiredFor property is used for validation purposes only.
OPES-1216	TIBCO OPE returns duplicate "PricingInformationType" sections in the GetPricingInformation response.
OPES-1215	Unexpected behavior is observed in TIBCO OPE when a GetOffer request is made by setting the filters to Segment-Category Segment-RecordSubType.
OPES-1156	The performance of TIBCO Offer and Price Engine improves by changing its configurations.
OPES-1061	The copyLib.sh script does not list all the required jars.
OPES-1030	Offer and Price Engine java customization does not work.
OPES-1017	Docker container logs are not created.
OPES-1014	Unexpected behavior is observed in TIBCO OPE when a GetOffer request is made by setting the filters to Segment-Category Segment-RecordSubType.
OPES-1013	The OPERuleExtensionValidateOffer case fails when it is executed with multiple incompatible rules.

Key	Summary
OPES-998	When you send a request for the Update shopping cart API, a new cart entry is added in Redis instead of updating the existing cart. Also, updating an existing shopping cart by id does not work.
OPES-877	When <code>pluggableCache.storage</code> is set to Redis, <code>uploadConfig.sh</code> does not work as expected.
OPES-838	The Shopping cart functionality is supported only on Redis.
OPES-816	The Multitenancy functionality is not supported in Shopping Cart.
OPES-806	The Shopping Cart functionality is not integrated with Offer Price Engine.
OPES-751	You cannot modify datasource URL properties from configurator UI.
OPES-493	When TIBCO OPE is used to validate an order before submitting it to TIBCO Fulfillment Order Management, it does not respond with the complete information of user-defined fields that are missing, and returns the following generic message: "MANDATORY_UDF_MISSING"

Known Issues

The following issues exist in this release of TIBCO Offer and Price Engine.

Key	Summary and Workaround
OPES-2208	<p>Summary: The recommendation-engine-core does not start with SSL configurations.</p> <p>Workaround: None</p>
OPES-2183	<p>Summary: There are incorrect names of DB migration script for the admin and catalog database in TIBCO OPE.</p> <p>Workaround: Update the DB migration script names for the admin and catalog database (PostgreSQL and Oracle) as follows:</p> <pre>upgrade-5.1.0hf4-to-6.0_db-setup.sh</pre>
OPES-2181	<p>Summary: GraphQL API: For ShoppingCart and Recommendation-data-store-engine services, docs are not accessible when the enableSecureAPI flag is set to true.</p> <p>Workaround: GraphQL samples are provided for all GraphQL APIs in ShoppingCart and Recommendation Engine data store. These samples can be directly used in any of the GraphQL tools such as Altair.</p>
OPES-2175	<p>Summary: Recommendation Engine Data Store logs are generated and piled up very fast. For example, in a day within 2 hours, it generates 4 log files. In a customer environment, the frequency might be even more. It creates many log files and consumes space.</p> <p>Workaround: You can purge logs periodically.</p>
OPES-2174	<p>Summary: When you send the GetOffer or GetProductInformation request, characteristics that are eligible for both Name and Description criteria, return twice.</p> <p>Workaround: None</p>
OPES-2146	<p>Summary: Actuator endpoints are missing for the Recommendation</p>

(Continued)

Key	Summary and Workaround
	<p>Engine core service. Workaround: None</p>
OPES-2130	<p>Summary: The Get Product Information and Get Prices APIs use the POST method REST service incorrectly, instead of GET method. Workaround: You can still use the POST method as it works fine functionally.</p>
OPES-2120	<p>Summary: The Recommendation Engine Core APIs are accessible without any authentication. Workaround: None</p>
OPES-2031	<p>Summary: When you upload a config-file or app-property that is already uploaded, the configurator throws 400 response code instead of 208. Workaround: None</p>
OPES-1133	<p>Summary: The eligibleProducts are shown in the ineligibleProducts tag for some of the use cases. Workaround: None</p>
OPES-1012	<p>Summary: All the products are not saved in the TOP_LEVEL_PRODUCT table in a database as expected. Workaround: None</p>

TIBCO Documentation and Support Services

For information about this product, you can read the documentation, contact TIBCO Support, and join TIBCO Community.

How to Access TIBCO Documentation

Documentation for TIBCO products is available on the [TIBCO Product Documentation](#) website, mainly in HTML and PDF formats.

The [TIBCO Product Documentation](#) website is updated frequently and is more current than any other documentation included with the product.

Product-Specific Documentation

The following documentation for this product is available on the [TIBCO® Offer and Price Engine](#) documentation page:

- *TIBCO® Offer and Price Engine Release Notes*
- *TIBCO® Offer and Price Engine Installation and Configuration Guide*
- *TIBCO® Offer and Price Engine Concepts Guide*
- *TIBCO® Offer and Price Engine User Guide*
- *TIBCO® Offer and Price Engine Web services Guide*
- *TIBCO® Offer and Price Engine Security Guidelines*

How to Contact TIBCO Support

Get an overview of [TIBCO Support](#). You can contact TIBCO Support in the following ways:

- For accessing the Support Knowledge Base and getting personalized content about products you are interested in, visit the [TIBCO Support](#) website.
- For creating a Support case, you must have a valid maintenance or support contract with TIBCO. You also need a user name and password to log in to [TIBCO Support](#) website. If you do not have a user name, you can request one by clicking **Register** on

the website.

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