

# Software AG MashZone NextGen Server 10.2 Readme

**April 2018**

This is an Innovation Release. Innovation releases have a much shorter support cycle than standard releases. To learn more, please visit <http://empower.softwareag.com/innovationrelease/>.

This file contains important information you must read before using MashZone NextGen Server 10.2. You can find system requirements, user documentation and installation and upgrade instructions on the [Documentation website](#) or the [TECHcommunity website](#). At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

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## 1.0 Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

- none

## 2.0 Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

- JBP- 7474  
Reduce database requests during feed processing by caching revision and permissions  
Using an external Oracle persistence the performance of loading dashboards is less than using embedded persistence layer.  
There is currently no workaround for this issue.
- JBP- 7377  
Cannot import PPM-Dashboards to MashZone NextGen PPM-Edition  
It is not possible to import dashboards created with the full edition of MashZone NextGen into a MashZone NextGen PPM Edition.  
There is currently no workaround for this issue.

## 3.0 Usage Notes

This section provides any additional information you need to work with the current release of this product.

### ***MashZone NextGen Server***

- If the MashZone NextGen Server is running behind a firewall, the TCP ports specified during installation (default 8080) has to be open in the firewall.
- The usage of Digital Event Services (DES) is currently limited to scenarios where data is received by MashZone Server from only one Universal Messaging server.

### ***Browsers***

- If you use Chrome browser, we recommend to use Chrome browser version 53 or later. Previous version may cause some unexpected results using MashZone NextGen.
- If you have used a former version of MashZone NextGen, we recommend to delete the browser cache (IE: Internetoptions -> General -> Delete, FF: Options -> Advanced -> Network -> Offline web

Content ... -> Clear Now, chrome: Settings -> Advanced -> Clear browsing data ).

- When accessing MashZone NextGen, FireFox and Chrome browser are faster than Internet Explorer.

### ***Database connection***

- If you use a MySQL database connection, we recommend to use the driver version 5.1.34 or later.

## **4.0 Fixes Included in Each Release**

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

### ***Release 10.2 (Innovation release)***

- MashZone NextGen 10.2.0 Fix Version (10.2.0.1) scheduled fix in hand

### ***Release 10.1***

- MashZone NextGen BA 10.1.0 Fix Version (10.1.0.1) scheduled 30/10/2017
- MashZone NextGen BA 10.1.0 Fix Version (10.1.0.2) scheduled 10/12/2017
- MashZone NextGen BA 10.1.0 Fix Version (10.1.0.3) scheduled 23/01/2018
- MashZone NextGen BA 10.1.0 Fix Version (10.1.0.4) scheduled 05/03/2018
- MashZone NextGen BA 10.1.0 Fix Version (10.1.0.5) scheduled 03/04/2018

### ***Release 10.0 (Innovation release)***

- MashZone NextGen BA 10.0.0 Fix Version (10.0.0.1) scheduled 11/05/2017
- MashZone NextGen BA 10.0.0 Fix Version (10.0.0.2) scheduled 01/06/2017
- MashZone NextGen BA 10.0.0 Fix Version (10.0.0.3) scheduled 29/06/2017
- MashZone NextGen BA 10.0.0 Fix Version (10.0.0.4) scheduled 10/08/2017
- MashZone NextGen BA 10.0.0 Fix Version (10.0.0.5) scheduled 07/09/2017

### ***Release 9.12***

- MashZone NextGen BA 9.12.0 Fix Version (9.12.0.1) scheduled 13/10/2016

- MashZone NextGen BA 9.12.0 Fix Version (9.12.0.2) scheduled 10/11/2016
- MashZone NextGen BA 9.12.0 Fix Version (9.12.0.3) scheduled 08/12/2016
- MashZone NextGen BA 9.12.0 Fix Version (9.12.0.5) scheduled 02/02/2017
- MashZone NextGen BA 9.12.0 Fix Version (9.12.0.6) scheduled 16/03/2017
- MashZone NextGen BA 9.12.0 Fix Version (9.12.0.7) scheduled 25/05/2017
- MashZone NextGen BA 9.12.0 Fix Version (9.12.0.8) scheduled 22/06/2017
- MashZone NextGen BA 9.12.0 Fix Version (9.12.0.9) scheduled 17/08/2017
- MashZone NextGen BA 9.12.0 Fix Version (9.12.0.10) scheduled 04/10/2017
- MashZone NextGen BA 9.12.0 Fix Version (9.12.0.11) scheduled 24/11/2017
- MashZone NextGen BA 9.12.0 Fix Version (9.12.0.12) scheduled 06/02/2018

### ***Release 9.10***

- MashZone NextGen 9.10.0 Fix Version (9.10.0.1) scheduled 31/03/2016
- MashZone NextGen 9.10.0 Fix Version (9.10.0.2) scheduled 26/05/2016
- MashZone NextGen 9.10.0 Fix Version (9.10.0.3) scheduled 09/06/2016
- MashZone NextGen 9.10.0 Fix Version (9.10.0.4) scheduled 19/07/2016
- MashZone NextGen 9.10.0 Fix Version (9.10.0.5) scheduled 01/12/2016
- MashZone NextGen 9.10.0 Fix Version (9.10.0.6) scheduled 06/14/2017
- MashZone NextGen 9.10.0 Fix Version (9.10.0.7) scheduled 16/08/2017

## **5.0 Other Resolved Issues**

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

### ***Release 10.2***

- Several security issues have been fixed.
- JBP-6978  
Dashboard freeze when network reconnect  
If the network connection gets lost the open dashboards freeze and will stay frozen even if the

network connection has been restored.

- JBP-6944  
Unable to retrieve user input of one feed from another feed  
Under certain circumstances a feed cannot retrieve user inputs from another feed.
- JBP-6700  
JDBC operator is unable to result the columns of type Integer and Decimal with MySQL database  
If using MySQL database and the query is specified using input parameter the JDBC operator isn't able to result integer and decimal columns.
- JBP-6666  
Undefined numeric user inputs lead to endless loop  
If used together with includeFeed operators undefined numeric user input (no default or preview value) leads to endless loops calculating the feed.
- JBP-6592  
Not able to configure TCDB connection in distributed/cluster mode.  
If the port is not specified in the URL to configure a TerracottaDB connection the URL cannot be saved.
- JBP-6553  
Some pages still work with expired licence  
Some MashZone NextGen pages still work even if license has expired.
- JBP-6518  
incorrect MySQL creation script  
The MySQL "createDBTables.sql" is incorrect for the "scheduler" tables.

## ***Release 10.1***

- Several security issues have been fixed.
- JBP-6094  
Infinite recursion in getDeepDependentWidgets  
Stack size is exceeded when a filter and selection are removed from a widget and are applied to another widget in a way that would have created a circular dependency.
- JBP-5677  
Calling a dashboard with preview=true can prevent the dashboard from being loaded  
Loading a dashboard in preview mode may fail if 2 users are viewing or editing this dashboard competitively.
- JBP-5614  
Mashup editor hangs when entering non-well-formed XML.
- JBP-5606

Filter/Call URL action issue with invisible columns

When filtering using an invisible column or creating an URL with an invisible column the filter does not work and the URL is blank.

- JBP-5586  
DES event sources are not getting updated unless we do edit and save.
  
- JBP-5574  
When using very long label texts for axis values of a bar chart the vertical axis is displayed incorrectly.
  
- JBP-5572  
Content of Digital Event Services buffers is not reset when stopping DES buffers.
  
- JBP-5554  
Nested DES events not supported in RTBS  
Currently only top level field from events received via Digital Event Services (DES) can be used in MashZone Server.
  
- JBP-5460  
When retrieving huge data sets for charts, it may happen that the load/refresh icons freeze and remain on the screen.

## ***Release 10.0***

- Several security issues have been fixed.
  
- JBP-5268  
With MashZone NextGen version 10 only Presto\_Administrator group is allowed to create dashboards and feeds by default. To grant these permissions also to other users and groups please use MashZone NextGen API console.
  
- JBP-4804  
Search is not working  
The Most Recent search of the classic Presto hub reports an error if an user has assigned 2 AppServices with identical name.
  
- JBP-4902  
Keywords for action/link/window not working  
Define an action on a widget that opens up a URL in another window the entries in the combobox for predefined browser 'windows' do not work (New, Self, etc.). The user has to enter manually keywords like \_new.
  
- JBP-4210  
Audit logs are not recorded for some actions  
If all auditable actions names of Admin console are enabled and service operations are assigned to

users or groups no audit logs are recorded for adding permissions and roving Apps.

## **Release 9.12**

- JBP-3218  
REST service access errors when RELOADING a dashboard  
Reloading a dashboard while the transition from EDIT to VIEW is still in progress leads to an unexpected REST access error.
- JBP-3402  
Business Analytics system allows to create mashables with special characters  
Creating a Mashup or App using a service name containing special characters results in an error message.
- JBP- 4078  
Documentation for enabling mashzone datafeeds in Business Analytics is incorrect  
The Business Analytics documentation names the configuration file presto.conf instead of presto.config.
- JBP-4051  
Date conversion error in Dashboard data configuration  
Importing a date string with milliseconds (format yyyy-MM-dd hh:mm:ss.S) and converting it to date results in an error.

## **Release 9.10**

- JBP-3245  
<invoke> using stream=true has wrong semantics when used with CSV source  
EMML <invoke/> on csv sources with stream=true was causing non-application of RAQL scheme semantics on the datasource. Also this was internally building XML DOM from source, instead of streaming data from source to RAQL engine.
- JBP-3242  
RAQL date parsing accepts before reaching the end of the field  
Several fixes concerning RAQL date parsing may lead to changed behavior concerning the actual datatype that is guessed from a data source without an explicit scheme. Now date can be guessed where previously string was used, because of added support for date formats. Also string can be guessed where it was date before, because parsing is more strict than it was before (e.g. does not terminate before the end of a value has been reached).  
In order to avoid this type of problem, it is highly recommended to use explicit schemes, rather than relying on data type guessing for production systems.
- JBP-2799  
Mashup JSON responses are not cast to XML when output is of document type  
In EMML, assigning JSON value to XML variable type within a Javascript block will now trigger implicit conversion from JSON to XML. In previous versions, no such implicit data conversion

happens and users manually had to convert by typically calling a Java API.

- JBP-2769  
Several label texts / items weren't localized in Dashboard editor.
- JBP-2762  
Paged Layout of a workspace was not working correctly when logged in using Japanese language.
- JBP-2725  
XML Source couldn't handle XML sources based on XML attributes exclusively.
- JBP-2676  
The Audit Logs window didn't display the dates in Japanese format using Japanese language.
- JBP-2373  
EDA Event Sources lose "connection" to UM  
The size of internal UM events to handle results of queries greater than 3MB can be specified in key `um-server.maxBufferSize` of file `um.properties` (folder `<installDir>\um`), default value is 3145728 (3MB).
- JBP-2372  
If input value is more than Max value defined in Color Ranges field of Gauge Set View, the pointer was pointing to 0 Which is minimum value.
- JBP-2370  
Missing the upper limit value in Color Ranges field of Gauge Set View no color for palette was displayed.
- JBP-2351  
Wiring of an App was not working for Map View, the according icon was shown but when clicked it was showing nothing and wasn't able to do wiring with other apps.
- JBP-2323  
If the network connection got broken for any reason running a Mashup or App successfully and this Mashup or App was opened again an unclear message was displayed.
- JBP-2322  
A mashable based on a CSV file didn't show complete data in Tree View by default.
- JBP-2152  
Under certain circumstances adding an element to favorites didn't show any message in the info box.
- JBP-2107  
Date selection Mashup / Mashable snapshot allowed to specify future dates of Presto system date.
- JBP-1332  
The required authentication to upload files to MashZone NextGen server has been improved.

## 6.0 Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

## 7.0 Terminology Changes

A release is listed in this section only if changes occurred in that release.

### ***Release 10.2***

None

### ***Release 10.1***

Old Term	New Term
MashZone NextGen Business Analytics	MashZone NextGen Server

### ***Release 10.0***

Old Term	New Term
Dashboard	<ul style="list-style-type: none"><li>• Smart dashboard This is the new default dashboard using responsive design.</li><li>• Fixed grid dashboard This is the former static design dashboard.</li></ul>

### ***Release 9.12***

Old Term	New Term
MashZone NextGen	MashZone NextGen Business Analytics where Business Analytics is the product name and MashZone NextGen is the name of the product node (brand).

## Release 9.10

Old Term	New Term
Presto	MashZone NextGen Presto has been renamed to MashZone NextGen. This affects only the UI and documentation (Online help).
Speedometer chart	The Speedometer chart has been renamed to Circular Gauge chart.
Freeform	Dashboard editor

## 8.0 Added, Removed, Deprecated, or Changed Items

This section lists features, functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

### Release 10.2

Added Item	Description
Public access for dashboards	Dashboards can be viewed without authentication if permissions are configured accordingly for special group Presto_Guest.
PPM Context	A context can be created for PPM connection and allows a simple way to create dashboards, where filter link between widgets is created automatically.
Enhanced Command Central support	Command Central can be used to manage DES configuration, license, ports, SSL certificates, RTBS.
Rich text label	Rich text label can show a combination of static text and data, which supports flexible formatting.
Multi select	Grid, column, bar, pie widget support multi-select for filtering on multiple data values: JDBC operator, BigMemory, TerracottaDB data sources as well as RAQL and filter row operator support multiple values in user input
Date range widget	Widget for filtering on years, quarters or months
Slider widget	List widget for multi selection

Added Item	Description
List filter widget	This widget offers the entries of max. 2 attached data columns in a list for selection. Multi select is supported.
Widget toolbar	Toolbar for widgets in dashboard editor has been regrouped.
Ace editor	All text editors in dashboard and feed editor support syntax highlighting.
Save-as-CSV	Download of widget data into a CSV format in view mode. This option is configurable per widget.
Delegate access privileges	The user can promote the access right of a dashboard to all used feeds.
Enhanced audit logs	Creation, update, deletion, permission change of dashboards, feeds and aliases and user logins / logouts are logged.
Migration tool	Command-line tool for upgrading from 10.1 to version 10.2
New RAQL build-in functions	<p>The following functions have been added to RAQL engine:</p> <ul style="list-style-type: none"> <li>- column_name:</li> <li>- column_type:</li> <li>- project:</li> </ul>

Removed Item	Replacement, if any
<p>MashBoard Realtime Chart</p> <p>The Realtime Chart of classic Presto has been removed.</p>	
<p>Mobile App</p> <p>The Presto Mobile Apps for iPhone and iPad have been removed from the Apple app store.</p>	
<p>EDA configuration</p> <p>The configuration of EDA path to EventTypeStore and DES path cannot be specified via MashZone NextGen UI and cannot be imported using padmin tool.</p>	
RTBS	The new RTBS implementation is compatible with the former one but provides better scalability, availability/resilience.

Deprecated Item	Replacement, if any
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Changed Item	Description
RTBS default behavior	<p>The new RTBS service stores captured events in a store. These events are available again after a restart.</p> <p>It's possible to restore the non-persistent behavior of the former version by editing the configuration file <code>rtbs.properties</code> (folder <code>&lt;InstallDir&gt;\MashZoneNG\rtbs\conf</code>) and adding a line:</p> <pre>rtbs.persistence.enabled=false</pre>
Configuration UM server URL	<p>For DES Event Sources, the provider URL of the UM instance is not maintained in the Admin Console anymore. DES is configured through Command Central only.</p> <p>If default (<code>nsp://localhost:9000</code>) is used no manual migration step is required. In all other cases DES configuration has to be changed manually in Command Central. Please refer to documentation for details.</p>
Sort order grid widget	<p>The sort order of the grid widget changed to not case-sensitive.</p>

## **Release 10.1**

Added Item	Description
Terracotta DB connection	A new data source offers the consumption of data kept in Terracotta DB.
Support of Access Control Lists (ACL) for several operator / connections	Data sources PPM, Apama, EDA, DES, JDBC, Terracotta DB and URL alias now support ACL.
RAQL feed operator	This new operator adds the general purpose RAQL operation on top of arbitrary sources in feed processing.
Global filter dependencies in responsive dashboards	In filter configuration mode the user can get selections from widgets located on other tabs.

Added Item	Description
SPM plug-in (CCE integration)	The SPM plug-in adds some functionality to support the Command Central User Interface (CCE)
MashZone NextGen Server/Explorer integration	The MashZone NextGen Server/Explorer integration allows creating a dashboard on MashZone NextGen Server side from MashZone NextGen Explorer using JWT SSO. This includes a new Instrument Dashboard editor as well as several new widgets and a new data source MashZone NextGen Explorer.
In-bound API	The In-bound API allows to access and control MashZone NextGen Server widgets using name/value pairs in the URL.
Out-bound API	The Out-bound API allows passing current status or selection data from a dashboard to embedding systems.
Reuse widget data assignments in data feed	The data assignment of a widget can be promoted to a new feed where it can be further enhanced.
PPM edition	A new license type has been added: PPM Edition
Chart enhancement	<ul style="list-style-type: none"> <li>• Combined line / column chart</li> <li>• Multiple y-axes for line-, column- and bar-chart</li> <li>• Different line types (Line, Dotted, Dashed), color can be specified for each KPI</li> <li>• Specification which Pie chart labels to display</li> </ul>

Removed Item	Replacement, if any
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Deprecated Item	Replacement, if any
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EMML (editor and execution), Snapshot

**Removed Item****Replacement, if any**

The following API-console calls have been deprecated:

- getAliasDefinition
- getPPMConnections
- removePPMConnections
- updatePPMConnections
- setPPMConnection
- setBufferDefinition

**Changed Item****Description**

Improvement of Responsive Dashboard

The responsive dashboard has been improved.

- If there are enough cells free (left/right) to the cell the widget is dropped these cells are also occupied.
- A widget can be moved with cell span > 1 in 1 cell increments.
- In padding mode widgets are hidden.
- Widgets and layout groups are pasted into the currently selected row. If no row is selected widgets are pasted to the next free cell.
- While moving widgets the widget is drawn with a slight transparency.
- Selected rows have a thicker light blue border and selected layout groups have a thin blue border.
- A row can be copied and pasted. Pasted rows are added after the currently selected row. If no row is selected it is pasted at the end of the page.
- While resizing a row the row "snaps" in a small radius to the y-coordinate of other available rows.

Changed Item	Description
User interface	The user interfaces of MashZone NextGen Server and MashZone NextGen Explorer have been unified regarding UI colors and fonts.
New chart type contour	
Specifying parameters for JDBC operator	<p>Textual insertion of parameters into JDBC statements is no longer supported. Thus parameters can no longer be used to create fragments of SQL. For existing feeds and dashboards, the old operator is still supported.</p> <p>Parameters are now passed to the underlying database as typed parameters. Their use is restricted by the permissible SQL syntax of the database. In general they are allowed in places where a constant would be allowed, but they are not handled as constants syntactically, so no quoting is necessary to introduce a constant. The representation of a parameter in the SQL statement has changed from a graphical element to a colon followed by the parameter name.</p>
Specifying parameters for BigMemory operator	<p>Textual insertion of parameters into RAQL statements is no longer supported. Thus parameters can no longer be used to create fragments of RAQL. For existing feeds and dashboards, the old operator is still supported.</p> <p>Parameters are now passed to the RAQL engine as typed parameters. Their use is restricted by the permissible RAQL. In general they are allowed in places where a constant would be allowed, but they are not handled as constants syntactically, so no quoting is necessary to introduce a constant. The representation of a parameter in the RAQL statement has changed from a graphical element to a colon followed by the parameter name.</p>
Update client side libs and frameworks	Client side libs and frameworks have been updated so some customer issues need to be updated. More information can be found in MashZone NextGen 10.1 Migration Guide 10.1.
API console	The API console has been enhanced with the ability to invoke new APIs.

Changed Item	Description
Refresh rate	The default refresh rate of all data sources has been changed to 12 h.

## **Release 10.0**

Added Item	Description
Navigation and menu structure (masthead)	The navigation and menu structure has been redesigned. Items for legacy Presto controls e.g. Wires, App Editor and Mashables are not visible by default but can be activated if desired (Keys presto.mode and mashup.editor.visible in configuration file presto.config).
Landing page	The new landing page is displayed after logging in. The landing page provides the following features: <ul style="list-style-type: none"> <li>• New masthead</li> <li>• Welcome text, custom icon</li> <li>• Direct access to recently used dashboards</li> <li>• Explore more</li> </ul>
Responsive design	With this new smart dashboard work space it is possible to create dashboards that automatically adapt to different screen resolutions in the dashboard view mode. Depending on the available space, components are stretched or shrank and are also re-positioned automatically in case there is not enough space available. This edit mode is an alternative to the existing fixed grid mode.
SSO for PPM connections	Single Sign On for a PPM connection allows retrieving and filtering data based on access rights of the currently logged in user.
Dashboarding: new data sources	There are 2 new data sources: <ul style="list-style-type: none"> <li>• Digital Event Services (DES) enables analyzing of any DES data based on DES aliases.</li> <li>• JSON</li> </ul>

Added Item	Description
<p>Security: Anti-ClickJacking protection</p>	<p>By default, iframing of MashZone NextGen Business Analytics in other websites is prohibited by using HTTP Headers X-Frame-Options and Content-Security-Policy. These restrictions can be relaxed by an administrator via configuration in web.xml</p>
Removed Item	Replacement, if any
<p>Legacy PPM connection types (SOAP and URL-based) are not supported anymore.</p>	
<p>PPM Chart-app Dashboarding widgets for classic Presto apps and view have been removed since PPM connection of MashZone NextGen 10.0 requires PPM 10.0.</p>	
<p>Support of webMethods Broker has been removed.</p>	
<p>Non-canonical EDA buffer names In former versions, it was possible to specify non-canonical channel names (i.e. channel names that don't comply with EDA naming conventions) in the event source configuration. This is not supported anymore.</p>	
<p>JRuby (scripting language from EMMML) support has been removed.</p>	
<p>Portal connector and Sharepoint connector have been removed.</p>	
<p>RAQL handling of JSON input no longer supports path expressions for specifying repeating object locators. They have been replaced by XQuery/XPath 3.1 lookup expressions (see <a href="https://www.w3.org/TR/xquery-31/#id-lookup">https://www.w3.org/TR/xquery-31/#id-lookup</a>). This affects the use of locators both in a RAQL query's FROM clause, and in the "record" option of a RAQL schema definition.</p>	<p>As a new feature, locator expressions for columns now can be used in a RAQL schema definition. These are also expressed in XQuery/XPath 3.1 lookup syntax. See the documentation of MashZone Server 10.1 for more information.</p>

Deprecated Item	Replacement, if any
MashZone NextGen BA viewer for iPad and iPhone (Presto Mobile for iPhone)	
Legacy Presto data source connections: RSS Feed, WSDL Web Service, REST Web Service, CSV File, Excel File, XML File, Database.	
Legacy Presto Wires visual mashup editor.	
Legacy Presto Apps, Application Editor, Application Views, App Depot	
Legacy Presto Mashboard dashboarding.	
Legacy Presto “Hub” user interface for managing/browsing connections, mashups, and apps.	
IBO Landing Page (IBO end-points configuration)	

Changed Item	Description
Base URL	The base URL of MashZoneNextGen changed from /presto to /mashzone. An according redirect service has been provided.
Google maps functionality	Google map functionality is deactivated due to missing Google key. Google has changed its policy so that you have to add a maps API key in order to invoke the maps API. Detailed information can be found in chapter 3.0 Usage Notes (page 2).
EDA filter predicates	Filter predicates are now evaluated not on event bus side anymore, but on MashZone NextGen BA side.

## **Release 9.12**

Added Item	Description
Dashboarding: new data sources	<ul style="list-style-type: none"><li>• PPM enables analyzing of any PPM data based on PPM aliases.</li><li>• Excel XLS as well as XSLX files can be read.</li><li>• Data feed any data feed created with the new feed editor can visualize its data.</li></ul>
Widgets across multiple Tabs	A widget configured to be displayed on multiple tabs can be used as a filter or to trigger selection events across multiple tabs.
Feed-editor	A new feed-editor has been implemented to edit and save MashZone data feeds.
Direct file access for data sources	An Administrator can configure a list of file aliases to enable direct access to source file located in the file system of Business Analytics server.
Import / export data feeds	The administration tool padmin has been enabled to import and export data feeds.

Added Item	Description
Migration	<p>Data feeds of legacy Mashzone can be imported using the new migration tool. Option –migration is required to import and migrate MZP files actually.</p> <p>There are some restrictions migrating legacy MashZone feeds: migration is canceled if the feed contains one of the following legacy MashZone features:</p> <ul style="list-style-type: none"> <li>• Operators <ul style="list-style-type: none"> <li>○ Data sources <ul style="list-style-type: none"> <li>▪ Manual data</li> <li>▪ Old PPM operator (URL based)</li> <li>▪ wmOptimize</li> <li>▪ BigMemory</li> </ul> </li> <li>○ Preprocessing in XML operator</li> <li>○ Text <ul style="list-style-type: none"> <li>▪ Create URL</li> </ul> </li> <li>○ Date <ul style="list-style-type: none"> <li>▪ Move single date</li> <li>▪ Replace date fields</li> </ul> </li> <li>○ Geolocation <ul style="list-style-type: none"> <li>▪ Aggregate geolocations</li> <li>▪ Retrieve geolocations</li> </ul> </li> </ul> </li> <li>• Source locations <ul style="list-style-type: none"> <li>○ ARIS Design Server</li> <li>○ Google DOCS</li> <li>○ Uploaded files</li> </ul> </li> </ul>
Removed Item	Replacement, if any
Legacy MashZone feed-editor (flash based)	New html5 based feed-editor

Added Item	Description
The legacy MashZone importtool.bat and exporttool.bat (folder .\MashZoneNG\mashzone\tools\runtool) have been removed.	Existing administration tool padmin has been enable to import and export data feeds now.

Deprecated Item	Replacement, if any
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Changed Item	Description
Business analytics start page	The start page displayed right after login has been redesigned. E.G. the controls of legacy Presto stuff (EMML, RAQL) have been moved to sub-menus.

## ***Release 9.10***

Added Item	Description
Runtime	MashZone NextGen provides scripts to run the server in Docker environment.
CSV / XML source	The handling of MashZone NextGen CSV and XML sources used in Dashboard Editor, RAQL and MZ feeds has been unified.
RAQL enhancement	The RAQL interface has been improved: <ul style="list-style-type: none"> <li>▪ Added support for Outer Joins (left, right, full) as specified in SQL standard</li> <li>▪ Within RTM the physical query has been optimized by using hash based Difference and hash based Intersection.</li> </ul>
Pie chart labels	The ability to display labels outside a pie chart has been added by selecting option Value Position outside.
Data source	The following source operators have been added: <ul style="list-style-type: none"> <li>▪ CSV</li> <li>▪ JDBC</li> <li>▪ ARIS table</li> </ul>
XML source operator	The current column configuration can be copied to the clipboard. Also, white spaces for column names are supported.

Added Item	Description
Data calculation	<p>The following calculation operators have been added:</p> <ul style="list-style-type: none"> <li>▪ Arithmetic</li> <li>▪ Aggregate</li> <li>▪ Condition replace</li> <li>▪ Filter rows</li> <li>▪ Processing columns: Insert, Delete, Rename, Duplicate</li> <li>▪ Move date</li> <li>▪ Round up/down</li> </ul>
Chart types	<p>The following types of charts have been added:</p> <ul style="list-style-type: none"> <li>▪ Bar chart</li> <li>▪ Horizontal and vertical Gauge chart</li> <li>▪ Traffic lights</li> <li>▪ Thresholds and traffic lights in grid</li> <li>▪ Enhanced styling features in the container and header of widgets. The following items can be specified for Y-axis of a chart: title, common format, and data range.</li> </ul>
Dashboard editor	<p>The Dashboard editor has been enhanced:</p> <ul style="list-style-type: none"> <li>▪ Access a MashZone NextGen Dashboard/App from an external application e.g. MWS using an URL where parameters can be provided and accepted by the MashZone NextGen Dashboard/App</li> <li>▪ Certain actions (change tab, set selection, call URL) can be triggered by selecting, clicking or hovering over a widget</li> <li>▪ Dashboard only mode: the dashboard header can be hidden by URL parameter</li> <li>▪ Dashboards can be opened from the hub</li> <li>▪ Dashboards based on non EDA sources can be refreshed automatically in a regular manner.</li> </ul>

Removed Item	Replacement, if any
Grid options	The grid option “Negative values in red” is no longer supported. The user can use thresholds instead.
XML source operator	The ability of the XML source operator to switch back and forth between grid and text mode has been removed.

Deprecated Item	Replacement, if any
Sharepoint connector	
Portal connector	Embedded using iFrames
RAQL Explorer	

Changed Item	Description
Data points of a line chart	The look of data point of a line chart can be set. Options are none, small and big.
Dashboard editor masthead	The Dashbord editor masthead has been aligned with the MashZone NextGen one.
Selection Dashboard editor source	All operators of Dashboard editor are listed on the right side and can be added by one click.

## 9.0 Added, Removed, Deprecated, or Changed Built-In Services

A release is listed in this section only if changes occurred in that release.

### **Release 10.2**

Added Service	Description
New RTBS EDA services	The RTBS replacements also adds 3 new Windows services: - MashZoneNextGenRTBSCore102 - MashZoneNextGenRTBSHA-Store102 - MashZoneNextGenRTBSZookeeper102

Removed Service	Replacement, if any
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Deprecated Service	Replacement, if any
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Changed Service	Description
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MashZoneNextGen101	The service was renamed from MashZoneNextGen101 to MashZoneNextGen102.
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### **Release 10.1**

Added Service	Description
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Send Apama events	This service can send arbitrary events to an Apama system. The events sent are configured using Admin Console.
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Removed Service	Replacement, if any
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Internal UM connection used for client server communication has been removed.	WebSocket is used now. The additional UM port is not used anymore. The entire communication is handled via server port (default 8080)
Public RTBS services bufferlist, bufferlistwithstate, buffermetadata, bufferresult	URL: [host]:[port]/mashzone/mzservices/admin/callrtbsserviceArguments: rtbsservice= =bufferlist, rtbsservice= =bufferlistwithstate, rtbsservice= =buffermetadata&buffername =[bufferName], rtbsservice= =bufferresult&buffername =[bufferName]  E.g. <a href="http://localhost:8080/mashzone/mzservices/admin/callrtbsservice?rtbsservice=bufferlist">http://localhost:8080/mashzone/mzservices/admin/callrtbsservice?rtbsservice=bufferlist</a>  Only administrator users can use this service.
ConfigService.deleteAliasDefinition	AliasService.deleteAlias
ConfigService.exportPPMConnection	pAdmin tool
ConfigService.getAliasDefinition	AliasService.getAlias
ConfigService.getPPMVersion	AliasService
ConfigService.exportEventServiceConnection	pAdmin tool

Removed Service	Replacement, if any
ConfigService.getImportExportDirectoryContent	
ConfigService.importEventServiceConnection	pAdmin tool
ConfigService.importPPMConnection	pAdmin tool
ConfigService.setAliasDefinition and ConfigService.storeAliasDefinition	createApamaAlias, createDatabaseAlias, createEDAOAlias, createEventEmittingAlias, createFileAlias, createPPMAlias, createRTBSAlias, createTerracottaDBAlias, createURLAlias
ConfigService.updateAliasDefinition	

Deprecated Service	Replacement, if any
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Changed Service	Description
MashZoneNextGen100	The service was renamed from MashZoneNextGen100 to MashZoneNextGen101.

## ***Release 10.0***

Added Service	Description
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Removed Service	Replacement, if any
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Deprecated Service	Replacement, if any
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Changed Service	Description
MashZoneNextGen912	The service was renamed from MashZoneNextGen912 to MashZoneNextGen100.

## ***Release 9.12***

<b>Changed Service</b>	<b>Description</b>
MashZoneNextGen910	The service was renamed from MashZoneNextGen910 to MashZoneNextGen912.

## **10.0 Added, Removed, Deprecated, or Changed Parameters**

A release is listed in this section only if changes occurred in that release.

### ***Release 10.2***

<b>Added Parameter</b>	<b>Description</b>
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<b>Removed Parameter</b>	<b>Replacement, if any</b>
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<b>Deprecated Parameter</b>	<b>Replacement, if any</b>
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<b>Changed Parameter</b>	<b>Description</b>
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## **11.0 Added, Removed, Deprecated, or Changed APIs**

A release is listed in this section only if changes occurred in that release.

### ***Release <current release>***

<b>Added API</b>	<b>Description</b>
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<b>Removed API</b>	<b>Replacement, if any</b>
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Deprecated API

Replacement, if any

Changed API

Description

## 12.0 Copyright Information

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JBP-RM-102-20180417