

# Software AG MashZone NextGen 10.5 Readme

October 2019

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 10.5. You can find system requirements, user documentation , 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-10646  
Restrict configuration of reverse-proxies or load balancers may result in breaking the connections between client and server, when falling back from Websockets protocol to a fallback.  
Allow WebSockets in reverse-proxies and set configuration correctly.
- JBP-10661If a JDBC connection is incorrectly configured different error messages are displayed in feed processing and administration.  
There is currently no workaround for this issue.
- JBP-10477  
Copying dashboard components does not work.  
Copying a dashboard component of a complex dashboard may result in a DOM-exception issue.  
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 the installation (default is 8080) must be open in the firewall.

### ***Browsers***

- If you have used a previous version of MashZone NextGen, we recommend deleting the browser cache (Internet Explorer: Internet options -> General -> Delete, FireFox: Tools -> Options -> Privacy & Security -> Goto Cookies and Site Data section-> click Clear Data -> select Cached Web Content, Google Chrome: More Tools -> Clear browsing data).

- We recommend using Firefox or Chrome browser instead of Internet Explorer when running MashZone NextGen.

### ***Database connection***

- We recommend using the same JDBC driver class only once in the JDBC drivers configuration.
- If you use a MySQL database connection, we recommend using 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 10.4***

- MashZone NextGen 10.4.0 Fix Version (10.4.0.3) released 08/26/2019
- MashZone NextGen 10.4.0 Fix Version (10.4.0.2) released 07/04/2019
- MashZone NextGen 10.4.0 Fix Version (10.4.0.1) fix in hand released 04/16/2019

### ***Release 10.3***

- MashZone NextGen 10.3.0 Fix Version (10.3.0.11) released 08/12/2019
- MashZone NextGen 10.3.0 Fix Version (10.3.0.10) released 07/30/2019
- MashZone NextGen 10.3.0 Fix Version (10.3.0.9) released 07/23/2019
- MashZone NextGen 10.3.0 Fix Version (10.3.0.8) released 02/13/2019
- MashZone NextGen 10.3.0 Fix Version (10.3.0.7) released 06/13/2019
- MashZone NextGen 10.3.0 Fix Version (10.3.0.6) released 03/26/2019
- MashZone NextGen 10.3.0 Fix Version (10.3.0.5) released 02/13/2019
- MashZone NextGen 10.3.0 Fix Version (10.3.0.4) released 01/16/2019
- MashZone NextGen 10.3.0 Fix Version (10.3.0.3) released 12/03/2018
- MashZone NextGen 10.3.0 Fix Version (10.3.0.2) released 11/06/2018
- MashZone NextGen 10.3.0 Fix Version (10.3.0.1) fix in hand released 10/15/2018

## ***Release 10.1***

- MashZone NextGen BA 10.1.0 Fix Version (10.1.0.16) released 01/21/2019
- MashZone NextGen BA 10.1.0 Fix Version (10.1.0.15) released 12/11/2018
- MashZone NextGen BA 10.1.0 Fix Version (10.1.0.14) released 11/22/2018
- MashZone NextGen BA 10.1.0 Fix Version (10.1.0.13) released 10/12/2018
- MashZone NextGen BA 10.1.0 Fix Version (10.1.0.12) released 08/23/2018
- MashZone NextGen BA 10.1.0 Fix Version (10.1.0.11) released 08/06/2018
- MashZone NextGen BA 10.1.0 Fix Version (10.1.0.10) released 07/23/2018
- MashZone NextGen BA 10.1.0 Fix Version (10.1.0.9) released 07/10/2018
- MashZone NextGen BA 10.1.0 Fix Version (10.1.0.8) released 06/28/2018
- MashZone NextGen BA 10.1.0 Fix Version (10.1.0.7) released 05/28/2018
- MashZone NextGen BA 10.1.0 Fix Version (10.1.0.6) released 04/30/2018
- MashZone NextGen BA 10.1.0 Fix Version (10.1.0.5) released 04/03/2018
- MashZone NextGen BA 10.1.0 Fix Version (10.1.0.4) released 03/05/2018
- MashZone NextGen BA 10.1.0 Fix Version (10.1.0.3) released 01/23/2018
- MashZone NextGen BA 10.1.0 Fix Version (10.1.0.2) released 10/12/2017
- MashZone NextGen BA 10.1.0 Fix Version (10.1.0.1) released 10/30/2017

## ***Release 9.12***

- MashZone NextGen BA 9.12.0 Fix Version (9.12.0.14) released 10/29/2018
- MashZone NextGen BA 9.12.0 Fix Version (9.12.0.13) released 09/04/2018
- MashZone NextGen BA 9.12.0 Fix Version (9.12.0.12) released 02/06/2018
- MashZone NextGen BA 9.12.0 Fix Version (9.12.0.11) released 11/24/2017
- MashZone NextGen BA 9.12.0 Fix Version (9.12.0.10) released 10/04/2017
- MashZone NextGen BA 9.12.0 Fix Version (9.12.0.9) released 08/18/2017
- MashZone NextGen BA 9.12.0 Fix Version (9.12.0.8) released 06/23/2017
- MashZone NextGen BA 9.12.0 Fix Version (9.12.0.7) released 05/31/2017

- MashZone NextGen BA 9.12.0 Fix Version (9.12.0.6) released 03/20/2017
- MashZone NextGen BA 9.12.0 Fix Version (9.12.0.5) released 02/07/2017
- MashZone NextGen BA 9.12.0 Fix Version (9.12.0.3) released 12/13/2016
- MashZone NextGen BA 9.12.0 Fix Version (9.12.0.2) released 11/11/2016
- MashZone NextGen BA 9.12.0 Fix Version (9.12.0.1) released 10/19/2016

## 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 10.4***

- JBP-9591  
Slider widget causes a filter removal.  
When a slider widget without default settings is used to filter data in other tabs, the filter works not properly.
- JBP-9408  
Separator and decimal point are reversed.  
Digit grouping separator and decimal point are reversed in Chinese language.

### ***Release 10.3***

- Several security issues have been fixed.
- JBP-7974  
Using text user inputs for URL parameters from text fields does not work anymore  
The parameters that come from the dashboard URL and use text fields and text user inputs are lost when exporting and importing the dashboard.
- JBP-7908  
If Oracle/Linux persistence is used, after updating an older ARIS Aware version to SR4b, no required DB table is created at first server start, which leads to error messages.
- JBP-7637  
Header of table (grid widget) column cannot be aligned  
There is a UI option to change the alignment of table columns, but only the table body is changed, not the table header. Currently, the UI gives the impression that both, table body and header are changeable.

## **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 license  
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.

## 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.

Mashzone NextGen User Documentation has been upgraded to new build version in the current Release.

## 7.0 Terminology Changes

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

### **Release 10.5**

None

### **Release 10.4**

None

### **Release 10.3**

Old Term	New Term
Component	Widget
Views	Tabs
Rich Text Editor	Rich Text Area

### **Release 10.2**

None

### **Release 10.1**

Old Term	New Term
MashZone NextGen Business Analytics	New product name is MashZone NextGen. MashZone NextGen Server is the name of the component installed through Software AG Installer.

### **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**

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

## **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 10.5**

<b>Added Item</b>	<b>Description</b>
New filter capabilities with PPM context	Process Mining context supports filtering on function dimensions and functions measures
Multiple selections in time filter widget for PPM context	Multiple selection can be used in PPM context to filter time ranges e.g. Q1/2019 - Q3/2019.
Keep filters in PPM context when using Root Cause Miner widget	When using the Root Cause Miner the filter set initially when starting the Mining procedure, can be restored when closing Root Cause Miner.
Multiple functions measures in Function Flow widget	Multiple measures can be configured for visualization in the Function Flow widget. The user can switch between these at view time
Filter on process pattern in Function Flow widget	Selection one or more functions in the Function Flow widget to set a filter on all processes that flow through the selected functions
Function coloring in Function Flow widget	Functions in in Function Flow widget can be colored according to threshold values on functional measures.
GeoJSON files	GeoJSON files for the Map widget can be uploaded and managed through the Administration console. GeoJSON files are not stored in the database.
URL whitelisting	Optional configuration of a whitelist for URL than can be accessed from data sources that use URLs for loading data. The default is “no restriction”.

Added Item	Description
Chart color mapping	A column with RGB values can be used for setting the color used in the chart. Thus, a dashboard editor can map dimension values on fixed colors.

Removed Item	Replacement, if any
Digital Event Service	Event Routing

Deprecated Item	Replacement, if any
Legacy JDBC driver support: JDBC driver found in folder <InstallDir>\MashZoneNG\mashzone\data\jdbcdrivers will be loaded at server startup.	Upload JDBC driver in the Administration console
API Console	REST API
Command Central integration	SAG Installer and Update Manager for some parts; none for others

Changed Item	Description
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## ***Release 10.4***

Added Item	Description
Distribution chart	The distribution chart displays a histogram of a measure on the x-axis. This chart is only available for PPM context based dashboards.
Bookmarks	A certain state of a dashboard including filter selections can be saved in a bookmark. Bookmarks can be created by all viewers of a dashboard if the editor has enabled bookmarking for this dashboard. Bookmarks can be optionally shared with other viewers with permissions for the dashboard.
Display measure value on column and bar charts	For column and bar charts, the measure value can be displayed inside or outside the columns / bars.

Added Item	Description
Display type of numeric axes	The line, column, bar, and bubble chart support display type linear and logarithmic for numeric axes.
Display of axis labeling	A new mode “Alternate” allows to display x-axis values in two rows, which provide better readability.
Screen resolution dependent font size	The default styles and themes support the CSS media query on screen resolution and thus enabling smaller font-sizes on small screen devices.
Slider widget	The type <b>Open Range</b> enables filter with infinite limits as well as filter status <b>No Selection</b> .
Enhanced value list support in feed processing	User inputs for list values have been added: Date user input (List), Number user input (List), Text user input (List). The conversion from feed column to value list and vice version is added.
Operators Column to value, Value to column, Named copy, Copy single value	The operators <b>Column to value</b> , <b>Value to column</b> , <b>Named copy</b> , <b>Copy single value</b> have been enhanced to handle list values.
HTTP header for URL data sources	For URL based data sources (CSV, JSON, XML, Excel, ARIS Table) certain HTTP header can be specified.
Enhanced preview in feed-editor	The preview of calculations in feed editor provides different modes (Quick, Full). The <b>Statistics</b> mode displays a column based statistics of the calculated data.
Secure connection to Terracotta DB	The Terracotta connection supports new Terracotta server security features (encryption, authorization).
Terracotta connection pooling	The pooling of Terracotta DB connections increases the performance.
UI for import/export of assets.	The Admin Console has been extended to import and export dashboard, feeds and aliases.
Cross Edition Import	Dashboards, feeds and aliases created with a different edition can be imported. The <b>padmin</b> tool supports an option for a test run to check that imported objects only use features supported in the target edition.

Added Item	Description
Disallow duplicate feed and dashboard names	It is not possible to save feeds and dashboards if the specified name already exists.
Logging performance.log	Setting debug level to DEBUG for performnaceLog enables the logging for JDBC, Terracotta DB, BigMemory and RAQL Inline queries.

Removed Item	Replacement, if any
<p>The following padmin commands have been removed:</p> <ul style="list-style-type: none"> <li>• exportServices, importServices</li> <li>• createApp, exportApps, importApps</li> <li>• exportPolicy, importPolicy</li> <li>• manageResources</li> <li>• exportGlobalAttribs, importGlobalAttribs</li> <li>• exportUserProfiles, importUserProfiles</li> <li>• exportEmmlMacro, importEmmlMacro</li> <li>• exportLib, importLib</li> </ul> <p>Presto scheduler for executing EMMML scripts and taking database snapshots</p> <p>Import of dashboards that contain legacy Presto Views and Apps</p> <p>Presto mail service</p>	

Deprecated Item	Replacement, if any
<p>Push-based event data sources and MashZone NextGen’s Event Service (formerly known as RTBS)</p> <p>Apama Connectivity</p> <p>Digital Event Service</p>	<p>Store relevant data from Apama in BigMemory or database or use one of the pull-based data sources.</p>
<p>Event Routing / EDA event data sources</p> <p>Materialized Feeds using TerracottaDB for persisting feed results</p>	<p>Digital Event Service support is going to be removed in the next release.</p>

Deprecated Item	Replacement, if any
TerracottaDB data source	BigMemory or database

  

Changed Item	Description
Root Cause Miner widget	MashZone nextGen 10.4 requires RootCause Miner widget from PPM 10.4.
Style / themes	LESS files for styles / themes are stored by default in the MashZone NG persistence. That improves the handling in distributed environments. The old handling of styles / themes in the filesystem can still be used by switching the styling mode to file-based.
User roles	The legacy complex Presto policy management has been replaced by a new simplified role concept.
BigMemory connections	<p>The format and behavior of BigMemory connections has changed. They are now incorporated into the generic MashZone "alias" concept.</p> <p>Existing BigMemory connections cannot be migrated and must be added manually in the new installation.</p>
Handling of time zones	The runtime info operator 'Today's Date' and the RAQL functions to_date, to_string take account of the default time zone specified in property mashzone.feedprocessing.time zone (file mashzone.properties)
padmin runRequestFile command	<p>The format for input files for runRequestFile command has changed.</p> <p>Example: the shown input file for runRequestFile starts a RTBS buffer:</p> <pre> #@RequestId = startBuffer {   "description": "start event buffer",   "httpPost": "admin/startbuffer",   "params": {     "alias": "simple_buffer"   } } </pre>

## Release 10.3

Added Item	Description
Vector Map widget	A vector map typically allows users to interact with or visualize geographic areas of interest.
Map with Markers	Map with markers widget allows users to mark points of interest on a map based on geo-coordinates (latitude & longitude) defined in the assigned data.
Enhanced migration tool	The migration utility supports the upgrade paths 10.1 to 10.2 and 10.1 to 10.3.
Apama Event Deletion	MashZone NextGen supports Apama scenario to delete event from the view.
Multilingual Dashboards	MashZone NextGen allows the creation of multilingual dashboards. Language can be set through different means (URL parameter, UI control, cookie, browser preference).
Materialized feeds	Results of a feed calculation can be stored in TerracottaDB store. The feed calculation and storage in terracotta DB is triggered in the Administration panel interactively or by a REST API call.
Image component accepts dynamic URL	Image component supports dynamic URLs taken from data columns or input parameters, so the image can be changed at run time using filtering.
Adoption of DBP Common Design Language for UX	New set of guidelines for UI adoption, called DELITE Level Two UX changes for all web UIs has been added.
Command Central : Support Life cycle operation Restart	The Command Central life cycle operation "Restart" has been added for MashZone Nextgen server and RTBS services.
PPM context enhanced to support filter on number columns	The dashboard context for filtering PPM data supports textual data type and also filters measures (numeric type).
Add Dimension to filter panel for filtering PPM context based widgets	User can pre-fill filter criterions for filtering PPM context based widgets in edit mode and save it in the dashboard definition. So the user can see the filter criterions on the dashboard in view mode.

Added Item	Description
Define unique columns for selected rows on grid widget	User can define the (key) column which has to be taken care of if new data comes in and the current selection has to be recreated. If values in "no" key columns have changed, the row stays selected even when new data came in.
Exclude Dashboard widget in PPM context from filtering	A new control "Exclude widget from being filtered" is added to the context tab of the widgets properties panel. Enabling this option the widget will show unfiltered context data and will not react on any context filtering.
Hide axes and labels from Cartesian chart widgets	User can configure Cartesian chart widgets (line-, column-, bar-, bubble-chart) to "Hide Title" , "Hide All".
Set exact values in the slider widget	In the PPM use-case, the slider will be used for measures like process cycle . A typical range for this KPI will span a big range and the usage of the slider will not allow to set a specific value. Thus, the user must be able to enter lower and/or upper boundary numerically.

Removed Item	Replacement, if any
Classic Presto components (wires, hub, API console entries and related services, EMMML editor, mashables, mashups , apps , app-depot, and adapt user documentation) have been removed from MashZone NextGen completely.	
Spring configuration for the CAS SSO Solution has also been removed during the Spring update.	
Authentication with Digital Certificates/SSL has been removed.	

Deprecated Item	Replacement, if any
<p>Event Routing</p> <p>All products using Event Routing will continue to use it for event communication. All products that expose EDA events to clients might add a notification that the event format is subject to change when products move to the new event technology (Digital Event Services).</p>	<p>Digital Event Services</p>

Changed Item	Description
<p>Aggregation type for PPM KPIs</p>	<p>The definition of the aggregation of a KPI changed from context configuration to data assignment of the KPI.</p>
<p>PPM Query API / PPM Context</p>	<p>Dimensions of the data type Timerange are no longer supported in Query API / MZNG Context. These dimensions are refused in queries and cannot be used in existing contexts. Timerange dimensions are no longer available in new contexts.</p>
<p>Configuration UM server URL</p>	<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 (nsp://localhost:9000) 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>
<p>Sort order grid widget</p>	<p>The sort order of the grid widget changed to not case-sensitive.</p>



## **Release 10.2**

<b>Added Item</b>	<b>Description</b>
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
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

Added Item	Description
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 The Realtime Chart of classic Presto has been removed.</p>	
<p>Mobile App The Presto Mobile Apps for iPhone and iPad have been removed from the Apple app store.</p>	
<p>EDA configuration 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	<p>The new RTBS implementation is compatible with the former one but provides better scalability, availability/resilience.</p>

Deprecated Item	Replacement, if any

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 rtbs.properties (folder &lt;InstallDir&gt;\MashZoneNG\rtbs\conf) and adding a line:</p> <pre>rtbs.persistence.enabled=false</pre>

Changed Item	Description
Configuration UM server URL	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. If default (nsp://localhost:9000) 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.
Sort order grid widget	The sort order of the grid widget changed to not case-sensitive.

## **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.
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.

Added Item	Description
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

Deprecated Item	Replacement, if any
EMML (editor and execution), Snapshot	
The following API-console calls have been deprecated:	
<ul style="list-style-type: none"> <li>• getAliasDefinition</li> <li>• getPPMConnections</li> <li>• removePPMConnections</li> <li>• updatePPMConnections</li> <li>• setPPMConnection</li> <li>• setBufferDefinition</li> </ul>	

Changed Item	Description
Improvement of Responsive Dashboard	<p>The responsive dashboard has been improved.</p> <ul style="list-style-type: none"> <li>• If there are enough cells free (left/right) to the cell the widget is dropped these cells are also occupied.</li> <li>• A widget can be moved with cell span &gt; 1 in 1 cell increments.</li> <li>• In padding mode widgets are hidden.</li> <li>• Widgets and layout groups are pasted into the currently selected row. If no row is selected widgets are pasted to the next free cell.</li> <li>• While moving widgets the widget is drawn with a slight transparency.</li> <li>• Selected rows have a thicker light blue border and selected layout groups have a thin blue border.</li> <li>• 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.</li> <li>• While resizing a row the row "snaps" in a small radius to the y-coordinate of other available rows.</li> </ul>
User interface	<p>The user interfaces of MashZone NextGen Server and MashZone NextGen Explorer have been unified regarding UI colors and fonts.</p>
New chart type contour	

Changed Item	Description
Specifying parameters for JDBC operator	<p data-bbox="808 222 1417 415">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 data-bbox="808 436 1474 827">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 data-bbox="808 848 1417 1041">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 data-bbox="808 1062 1474 1415">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	<p data-bbox="808 1436 1482 1591">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.</p>
API console	<p data-bbox="808 1612 1482 1686">The API console has been enhanced with the ability to invoke new APIs.</p>
Refresh rate	<p data-bbox="808 1707 1482 1780">The default refresh rate of all data sources has been changed to 12 h.</p>

## 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 shrunk 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>
Security: Anti-ClickJacking protection	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

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

Legacy PPM connection types (SOAP and URL-based) are not supported anymore.

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.

Support of webMethods Broker has been removed.

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.

JRuby (scripting language from EMMML) support has been removed.

Portal connector and Sharepoint connector have been removed.

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 <https://www.w3.org/TR/xquery-31/#id-lookup>). This affects the use of locators both in a RAQL query's FROM clause, and in the "record" option of a RAQL schema definition.

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.



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
-----------------	---------------------

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.

## 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 10.5***

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
MashZoneNextGen104	The service was renamed from MashZoneNextGen104 to MashZoneNextGen105.
MashZoneNextGenEventServiceCore104	The service was renamed from MashZoneNextGenEventServiceCore104 to MashZoneNextGenEventServiceCore105.
MashZoneNextGenEventServiceHA-Store104	The service was renamed from MashZoneNextGenEventServiceHA-Store104 to MashZoneNextGenEventServiceHA-Store105.
MashZoneNextGenEventServiceZookeeper104	The service was renamed from MashZoneNextGenEventServiceZookeeper104 to MashZoneNextGenEventServiceZookeeper105.

### ***Release 10.4***

Added Service	Description
---------------	-------------

Removed Service	Replacement, if any
-----------------	---------------------

Deprecated Service	Replacement, if any
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Changed Service	Description
MashZoneNextGen103	The service was renamed from MashZoneNextGen103 to MashZoneNextGen104.
MashZoneNextGenRTBSCore103	The service was renamed from MashZoneNextGenRTBSCore103 to MashZoneNextGenEventServiceCore104.
MashZoneNextGenRTBSHA -Store103	The service was renamed from MashZoneNextGenRTBSHA -Store103 to MashZoneNextGenEventServiceHA-Store104.
MashZoneNextGenRTBSZookeeper103	The service was renamed from MashZoneNextGenRTBSZookeeper103 to MashZoneNextGenEventServiceZookeeper104.

### ***Release 10.3***

Added Service	Description
---------------	-------------

Removed Service	Replacement, if any
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Deprecated Service	Replacement, if any
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Changed Service	Description
MashZoneNextGen102	The service was renamed from MashZoneNextGen102 to MashZoneNextGen103.
MashZoneNextGenRTBSCore102	The service was renamed from MashZoneNextGenRTBSCore102 to MashZoneNextGenEventService10.3Core.
MashZoneNextGenRTBSHA-Store102	The service was renamed from MashZoneNextGenRTBSHA-Store102 to MashZoneNextGenEventService10.3HA-Store.
MashZoneNextGenRTBSZookeeper102	The service was renamed from MashZoneNextGenRTBSZookeeper102 to MashZoneNextGen Event Service10.3Zookeeper.

## ***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
-----------------	---------------------

Deprecated Service	Replacement, if any
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Changed Service	Description
MashZoneNextGen101	The service was renamed from MashZoneNextGen101 to MashZoneNextGen102.

## Release 10.1

Added Service	Description
Send Apama events	This service can send arbitrary events to an Apama system. The events sent are configured using Admin Console.

  

Removed Service	Replacement, if any
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
ConfigService.getImportExportDirectoryContent	
ConfigService.importEventServiceConnection	pAdmin tool
ConfigService.importPPMConnection	pAdmin tool



**Removed Service**

ConfigService.setAliasDefinition and  
ConfigService.storeAliasDefinition

ConfigService.updateAliasDefinition

**Replacement, if any**

createApamaAlias, createDatabaseAlias,  
createEDAOAlias, createEventEmittingAlias,  
createFileAlias, createPPMAlias,  
createRTBSAlias, createTerracottaDBAlias,  
createURLAlias

**Deprecated Service****Replacement, if any****Changed Service**

MashZoneNextGen100

**Description**

The service was renamed from  
MashZoneNextGen100 to MashZoneNextGen101.

***Release 10.0*****Added Service****Description****Removed Service****Replacement, if any****Deprecated Service****Replacement, if any****Changed Service**

MashZoneNextGen912

**Description**

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.

## **11.0 Added, Removed, Deprecated, or Changed APIs**

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

## ***Release 10.4***

<b>Added API</b>	<b>Description</b>
BigMemory Service: deleteBigMemoryConnection, getBigMemoryConnection, getEhcacheDetails, storeBigMemoryConnection, testBigMemoryConnection	
ConfigService: getHttpProxyConfig, getLdapConfig, setHttpProxyConfig, updateLdapConfig	
ManagementService: getAllSystemInfo	
UserManagementService: addGroup, addRoleToUserOrGroup, addUserToGroup, addUserwithEncodePassword, deleteGroup, listAllGroups, listAssignedGroupsForUser, listAssignedRolesForUserOrGroup, listUnassignedGroupsForUser, listUnassignedRolesForUserOrGroup, removeAllRolesFromUserOrGroup, removeRoleFromUserOrGroup, removeUserFromAllGroups, removeUserFromGroup, resetGroupsForUser, resetRolesForUserOrGroups, searchRoles	

**Removed API****Replacement, if any**

BigMemory Service:

addConfig, addDynamicCacheConfig,  
deleteConfig, deleteDynamicCacheConfig,  
getAllConfigSummary,  
getAllDynamicCacheConfig, getCacheConfig,  
getConfig, getConfigFile,  
getDynamicCacheConfig, getEhcacheXml,  
updateConfig

ConfigService:

getCertificateSettings, getConfig,  
getEventConnectorSettings, getHelpSettings,  
getLoggingSettings, getMailNotificationSettings,  
getSSOSettings, getSecuritySettings,  
getUserLDAPSettings, setCertificateSettings,  
setConfig, setEventConnectorSettings,  
setHelpSettings, setHttpProxySettings,  
setLoggingSettings, setMailNotificationSettings,  
setMailServerSettings, setRepositoryDBSettings,  
setSecuritySettings, setSnapshotSettings,  
setUserDBSettings, setUserLDAPSettings

LocalSupportService:

clearCache, getAllResourceFiles,  
getMessage\_ClientLocale,  
getMessage\_ServerLocale

All services of group MailService have been removed:

extractInfo, ping, searchMailbox, send, sendMail

Removed API	Replacement, if any
UserManagementService: addGlobalAttribute, addGlobalAttributeEncrypted, addRole, addRoleToUser, addUserAttribute, addUserAttributeEncrypted, createDynamicUserGroup, deleteAllRolesFromUser, deleteDynamicUserGroup, deleteGlobalAttribute, deleteRole, deleteRoleFromUser, deleteUserAttribute, findDynamicGroupMembers, findGlobalAllAttributes, findGlobalAllAttributesEncrypted, findGlobalAttribute, findGlobalAttributesLike, findUserAllAttributes, findUserAllAttributesEncrypted, findUserAttribute, findUserAttributeNames, forgotPassword, getAllDynamicUserGroups, getCurrentUserPreviousLoginTime, getDefaultGroups, getDynamicUserGroups, getUserDetails, isPrincipalExists, listAssignedRoles, listUnassignedRoles, login, logout, queryUsers, resetRolesForUser, searchDynamicGroups, setDefaultGroups, updateDynamicUserGroup, verifyUser	

Deprecated API	Replacement, if any

Changed API	Description
REST API	The root path of the URL for REST API calls has changed from /presto/edge/api/rest/ to /mashzone/mzservices/admin/.

### **Release 10.3**

Added API	Description
The following API services have been added: createMaterializedFeedAlias, materializeFeed.	

Added API	Description
REST API call to trigger feed calculation with store to Terracota DB	The API call <code>/mashzone/mzservices/tcstore/materializefeed</code> can be used to trigger execution and store to operation from an external scheduler service or through a batch job. The administration UI Materialized Feeds also provides a button to run this REST service.

Removed API	Replacement, if any
<p>ConfigService:</p> <p>addAuditLogExcludedAction, getAuditLogSettings, getCacheSettings, getDBServiceGeneratorSettings, getNTLMSettings, getRepositoryDBSettings, getSnapshotDBSettings, getSnapshotSettings, getSyndicationResponseSettings, getUserDBSettings, removeAuditLogExcludedAction, setAuditLogSettings, setCacheSettings, setDBServiceGeneratorSettings, setMashletSettings, setMashupEngineSettings, setmashupServerSettings, setNTLMSettings, setSnapshotDBSettings, setSnapshotSettings, updateAuditLogExcludeActions</p> <p>ManagementService:</p> <p>clearAllStats, garbageCollect, getAllServerLogFileNames, getAllStatsForServiceType, getAllStatsForServiceTypeForHour, getAllStatsForServiceTypes, getArtifactStatsForTypes, getArtifactStatsForUser, getAuditStatsForUsers, getSurrentStatsForServiceType, getSurrentStatsForServiceTypes, getRequestStatsForServiceForDuration, getRequestStatsForServiceForHourMinute</p>	

**Removed API****Replacement, if any**

PolicyService:  
addMashletPermissionSets, addMashletPermissions,  
getMashletPermissions,  
getPrincipalsAllowedToExecuteMashlet,  
getPrincipalsAllowedToExecuteService,  
getServiceOperationPermissions,  
getServicePermissions, isActionAllowedForMashlet,  
removeAllMashletPermissions,  
removeMashletPermissions,  
setPrincipalsAllowedToExecuteAllServiceOperations,  
setPrincipalsAllowedToExecuteMashlet

All services of the following service groups have been removed:

AppSearch, AppService, AppStoreService,  
CollapService, DBmashupManager,  
DependencyService, ExportService, JEMSDesigner,  
LibraryService, MashletHubService,  
MetaRepositoryService, ResourceService,  
SampleRequestWithTestData, ShareManager,  
SharePointManager

**Deprecated API****Replacement, if any****Changed API****Description**

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