

Software AG Presto 3.9 Readme

April 2015

This file contains important information you must read before using Software AG Presto 3.9. You can find Software AG Presto 3.9 user documentation on the [Documentation website](#) or the [TECHcommunity website](#). At those locations, you can also find the suite-related information listed below.

webMethods Product Suite Release Notes
webMethods and Intelligent Business Operations System Requirements
webMethods System Cache Specifications
Using the Software AG Installer
Installing webMethods and Intelligent Business Operations Products
Using the Software AG Update Manager (fixes)
Upgrading webMethods and Intelligent Business Operations Products
Security and globalization information

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1.0 Critical Information

This section lists the 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](#).

- JBP-260
OAuth Provider displays an error while creating new OAuth Provider.
- JPB-756
Changing column type is not recognized.
When changing a numeric column to a date column that has been already assigned to the y-axis, it is not recognized by the "Assign columns to axes" page. Going to the next page it should be marked as invalid (red border) by the validator.
- JBP-819
Internet Explorer 9 does not work properly using ProtoBuf.

2.0 Known Issues

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

- JBP-1864
Presto Shutdown process is not synchronized
Shutting down the Presto server using the shutdown script the script does not wait until the server is down. This may affect the update to fix #1.
As a workaround, shutdown the Presto server manually before running any fix.
- JBP-1824
Mashboard footer displays wrong version number 3.8
There is currently no workaround for this issue.
- JBP-1783
BigMemory caches created by Mashup Server cannot be read using Freeform
When a cache is created/populated using EMMML storeto command, it cannot be read by Freeform.
There is currently no workaround for this issue.
- JBP- 1781
Missing files for postgresql database
Presto installation is missing the "createSchedulerTables.sql" file required to configure Presto to use Postgresql database.
There is currently no workaround for this issue.
- JBP-1710
RAQL UI shows 'Error executing Mashup Script'
Running a Mashup script in RAQL UI reports an error, but the same mashup script works fine

when executed in the Mashup Editor.

There is currently no workaround for this issue.

- JBP-1704
When you try to start Event Service, a pop-up dialog displays "Event Service successfully started", even if the Event Service is not started.
There is currently no workaround for this issue.
- JBP-1701
Specifying new directory for "Event Type source Home directory" is still showing event types from default path "C:\SoftwareAG\common\EventTypeStore".
There is currently no workaround for this issue.
- JBP-1696
Unable to pass parameters to workspace apps
When calling a Mashboard app via URL, for example
/presto/hub/applauncher.html?mid=Offer_Conversion_Funnel_2, an URL parameter such as "&AccountId=5" isn't passed into one app on the mashboard.
There is currently no workaround for this issue.
- JBP-1686
In the Open Dashboard dialogue, dashboard details section does not display a vertical scroll bar if content is more.
If the size of a dashboard description exceeds the size of the text area the description text extends outside the 'open dashboard' dialogue.
There is currently no workaround for this issue.
- JBP-1668
Getting java.lang.runtime exception on Bigmemory data source selection screen
Running a RAQL query on a Bigmemory datasource of the Freeform Dashboard results in an error message.
There is currently no workaround for this issue.
- JBP-1664
Unable to consume BigMemory Dynamic Cache Data Source
Freeform Dashboard isn't able to consume data Source based on a BigMemory Dynamic Cache.
There is currently no workaround for this issue.
- JBP-1660
Dashboard Open Dialog is very slow
Under certain circumstances opening the Freeform Dashboard lasts up to several minutes.
There is currently no workaround for this issue.
- JBP-1642
Filter values "is empty" and "is not empty" do not work and prevent switching to view mode
Freeform Dashboard cannot be switched to view mode when configuring an "is empty" or "is not empty" filter on a Presto Grid.

There is currently no workaround for this issue.

- JBP-1615
Freeform dashboard stored (or shown) with wrong author
When loading a dashboard stored with as a normal user the dialog says it was created by Administrator.
There is currently no workaround for this issue.
- JBP-1482
Event service admin: No preview of existing event source definition
After having created and started an event source, there is no way to see its definition. You have to stop and edit it.
There is currently no workaround for this issue.
- JBP-1468
Event service admin "restart all"
The "restart all" button has no functionality. Additionally, the button is styled differently than other buttons (font color).
There is currently no workaround for this issue.
- JBP-1466
Event service admin does not show errors
If something goes wrong with service administration (for example, reloading dimension fields fails) there is no error message explaining what goes wrong.
There is currently no workaround for this issue.
- JBP-1408
Column names are not completely seen on Spark Column and Spark Win/Loss view
If the description of a column is too long the description will be cut.
There is currently no workaround for this issue.
- JBP-1395
App timeout error in Mashboard for OOTB app -Timeout waiting for app to load
App loads initially but after 10-15 seconds app content is replaced with a time out error message.
There is currently no workaround for this issue.
- JBP-1364
Field name is displayed improperly on Event services screen
When editing an event service, the name of the Apame URL field shows a resource string instead of the proper label text.
There is currently no workaround for this issue.
- JBP-1289
Apply Filters does not work properly
When running RAQL, the Apply Filters button should be enabled only after loading the selected filter columns.
There is currently no workaround for this issue.

3.0 Usage Notes

This section provides additional information you need to work with the current release of Software AG Presto.

- The <storeto> element in RAQL has changed syntax significantly, which may affect any existing mashups created with 3.6. See <http://mdc.jackbe.com/prestodocs/v3.7/raql/storeExtStmt.html> for details.
- The <loadfrom> element in RAQL has changed syntax significantly, which may affect any existing mashups created with 3.6. See <http://mdc.jackbe.com/prestodocs/v3.7/raql/loadExtStmt.html> for details.
- The interfaces for user-defined analytic functions in RAQL have been changed, which may affect existing aggregate or window analytic function implementations. Plain functions are not affected by those changes. See <http://mdc.jackbe.com/prestodocs/v3.8/presto-apis/raqludf/index.html> for the new analytic function API documentation. For sample implementations, deployment and usage instructions see <http://mdc.jackbe.com/prestodocs/v3.8/raql/userDefinedFunctions.html>.
- Metadata repository configuration is now done using JNDI in the tomee.xml file. Because of this change, the Metadata repository configuration screen is no longer available in Admin Console. See <http://mdc.jackbe.com/prestodocs/v3.7/administration/moveRepository2NewDB.html> for links to the specific procedure to configure the Presto Repository for this release.
- Presto Real Time Charts are not supported by Internet Explorer 9 and Internet Explorer 9 Compatibility View. In order to work with Presto Real Time Charts, Internet Explorer 10 and higher is recommended.

4.0 Fixes Included in Each Release

This section lists the fixes that have been included in each release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

Release 3.9

None.

Release 3.8

None.

Release 3.7

None.

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.

Release 3.9

- JBP-1563
Mashups created in earlier versions do not open in the current version of Wires
Mashups created in earlier versions of Presto (for example, 3.5) do not open for editing in the current version of Wires.
- JBP-1536
Upgrade from previous presto version to 3.9 misses new XACML policies and 'Samples' category
In the default derby DB shipped with Presto and also in the create* SQL scripts are introducing a new "Samples" category and two new XACML policies (Presto_Readonly and Presto_Freeform).
These artifacts are included if a previous version is upgraded.
- JBP-1512
Admin Console/Event Services: Can't select more than 1 key attribute when creating an Apama source
With the new Event Services tab it's not possible to select more than one key attribute. But this is required to be able to receive/process Apama events with more than one key attribute defined.
- JBP-1277
Terracotta Data source is not registering in Admin Console
Register Terracotta Management server is showing an error on the BigMemory page of the Admin Console.
- JBP-1262
Presto Config should support storing encrypted properties
The Configuration service should be able to store encrypted properties in RDBMS.
- JBP-1261
Presto User Repository should use SHA encryption instead of MD5
Currently Presto internal user repository uses MD5 to has the user password. SHA is considered to be more secure. The product is shipped with SHA as default. The can be switched back to MD5 if needed.
- JBP-1188
Grid KPI has conflicts showing column names with "/"
The character "/" cuts off the column name of KPIs. Only the foregoing letters are shown.
- JBP-1174
Process dashboards in My webMethods cannot be initialized
The error message "Failed to initialize jsclass – ProcessAndRange_Selector.control,

userExtn.getAppReadyPromise is not a function" is shown while trying to show process dashboards in My Webmethods.

- JBP-1129
Extensible apps loaded by viewconfig json files do not run
App instances were created before all extern configuration had been loaded. Access to not completely loaded instances leads to problems.
- JBP-1092
Sort algorithm in Grid KPI bullet to calculate marks colors is not resolved properly
This issue was discovered while creating a grid KPI with a bullet cell. The column names were undefined.

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- JBP-157
WSDL service always throws "host parameter is null" error
- JBP-328
Timeout Error when previewing app
When previewing the app in Phone or Tablet version just prior to publishing to App Depot, the following error occurs: We encountered an error while loading the App - There was an error while loading 'presto-workspace.js' in 'mashboard-mashlet' library - 20 second time out.
- JBP-329
Error when trying to take mashable snapshot.
- JBP-585
Wires Issue with Power Users
A user with Power_User permissions registers a new mashable and the same user tries to use the mashable within Wires. Previewing the service's output the preview window never shows as result but the presto server logs an error: ERROR
[com.jackbe.jbp.sas.sg.controller.ServiceGatewayController] - Internal Server Error - [Error 500]
Internal Server Error - Failed to handle given request : Details - Failed to handle given request.
Error = Service invocation failed.User with id 'power' is not authorized to perform 'view' action on item 'null'.
- JBP-647
Admin Console not loading all Users
If the user list extends to several pages some certain users were skipped.

Release 3.7

- REAP-16290
The Join block is not working as expected when the paths in results being joined are similar.

- REAP-16362
The Admin Console opens in IE9 and IE11, but the left-side menu items are not responding.
- REAP-16378
Grid headers are being displayed incorrectly in Chrome for certain mashables when users set the browser zoom to +/- of 100%.
- REAP-16428
Minimum and maximum values are not maintaining state when moving from one series to another series while adding a Gauge Set view. Values set for a series were missing when users move to another series.
- REAP-16436
There is an odd behavior when navigating through the Admin Console sections specific to Safari. Admin Console links were not working as expected.
- REAP-16437
Permissions for MashZone Feed Editor menu only allow access to administrators. Developer or power users were not able to access the MashZone Feed Editor. Permissions for power users were fixed. See also REAP-16432.
- REAP-16453
The search key word in Mashboard is searching only in the first part of an artifact name instead of looking for the search keyword anywhere in the name.
- REAP-16454
Search in the Views tab in Mashboard is not working when search options are changed from search through recent to search.
- REAP-16469
Apps are returned in search results in the Mashup Editor, resulting in an error message if users select an app. Apps should not be listed in Mashup Editor search results.
- REAP-16486
Snapshot search results show an internal server error 500. Snapshot was not working properly.
- REAP-16490
Problem with Gantt chart, extra zeroes on the sides of each element. Zero values are showing in Gantt view.
- REAP-16492
JavaScript Error when running a MashZone feed. While loading the feed, a JavaScript error was showing in firebug.

- REAP-16522
Date type in Input block should allow selecting more years than just 20. Date picker allowing to select years range up to 20 years only.
This issue has been resolved. The date picker now supports dates within a hundred year time span.
- REAP-16537
Add New button is disappearing when users open the Edit User form and click Save or Cancel buttons. Users can't add more than one user without refreshing the page.
- REAP-16190
Error message when users wire blocks within a Parallel block was incorrect.
The error message has been made more specific.
- REAP-16291
Add a short-cut key to reformat code within the Mashup Editor and the App Editor.
This issue has been resolved. User can now re-format content in the Mashup and App Editors using keyboard short-cuts.
- REAP-16329
Reset password is not working for a user account.
- REAP-16340
Load More button at the bottom of the Search Results page is getting overlapped with the page footer.
- REAP-16347
In bubble and scatter views, the label in the series configuration is not being shown in the View Configuration wizard page.
- REAP-16348
There is no scroll bar for EMMML Script popup in Wires when the EMMML code is longer than the window height, so users cannot see the complete script.
- REAP-16351
Resource URL is displayed improperly in the Mashable Info window for file-based mashables that have remote URLs.
This issue has been resolved. The Info window now displays remote URLs for file-based mashables.
- REAP-16368
Created date and time shows wrong for mashable/mashups. Mashup/mashable created date and time was showing wrong due to parseDate with timezone issue.
This issue has been resolved. The user interface now displays system times as recorded in the Presto Repository.

- REAP-16374
Getting improper confirmation message while deleting a mashup/mashable. Confirmation message was not relevant for respective artifacts.
This issue has been resolved. Confirmation messages are now generic for all artifacts.
- REAP-16424
'Change' link is not available for the user to edit the thumbnail of mashup/mashable/app. User was not able to change the thumbnail of an artifact as option to change artifact was not available.
- REAP-16426
Remove from Favorites functionality is not working in bulk operations.
- REAP-16429
The Permissions page in bulk updates keeps adding the same user repeatedly.
- REAP-16431
After performing an action in bulk updates, check box in table header is not getting cleared. Check box in table header not setting to clear after performing any action.
- REAP-16434
Show Info window is not completely opening for mashable/mashup for Developer users. The window is not showing at all for non-Admin users.
- REAP-16452
Run and Schedule Snapshot links should be disabled if user doesn't have permissions to run a mashable or mashup. If a user not having permissions to execute an artifact, then "Run" and "Schedule Snapshot" buttons should be disabled mode.
This issue has been resolved. Buttons are now hidden from non-authorized users.
- REAP-16459
Rating details of an artifact are showing in numeric value in Activity Stream page. When user rates an artifact, that info was showing in activity steam page with numeric value.
This issue has been resolved. Ratings are now displayed with stars in the activity stream.
- REAP-16473
Without selecting any groups for permissions, if a user clicks Save Changes," a growl message incorrectly shows a successful save message.
- REAP-16481
Able to create new account with invalid information and also successfully access Presto with this invalid account. Validations were not set for user input fields.
This issue has been resolved. Input for new users is now validated before the account is saved.

- REAP-16485
The Artifact Info page shows the Region value twice displaying both the 'English name' and the 'native name' in the drop down which makes duplicate of region name.
- REAP-16488
An exception occurs when trying to create an App with a lengthy name. App name length restriction is not validated so you can enter a name that is too long, such as 700 characters. This issue is resolved. App names are now limited to 64 characters in the user interface.
- REAP-16509
When an app has more than one chart with an aggregation function set, sometimes at least one of the charts fails to render.
This issue has been resolved to use the appropriate method to ensure that race conditions do not occur.
- REAP-16520
App view doesn't re-paint when selecting a different view in the combo layout. Respective view should show based the option selected in combo layout.
- REAP-16531
For the Filter Control in Mashboard, mouseover on one filter control item shows the resizer handles of all the present filter control items. Mouseover on one item should show only the handles of that filter item.
This is has been resolved so only the resizer handles for one filter item display.
- REAP-16535
Search results in Default Permissions page going beyond the result container. Supposed to show vertical scroll bar, if results size is more than container height.
- REAP-16538
While opening "Manage User Group" form, page is not getting refreshed properly. Multiple forms are showing at a time.
- JBP-68 and JBP-77
Password field values are show in plain text. Entered values are not masked.
This issue has been resolved. All password fields are now masked.
- Better handling for RAQL dataset columns that contain markup characters has been added. In previous releases, columns that contained markup characters, such as & or <, caused errors in RAQL queries when the result of the query was treated as a document (DOM) rather than streamed.
This issue has been resolved. Users must change the name of columns that contain markup characters to name_CDATA to have RAQL queries treat the column content as character data (delimiters are not considered markup characters).

6.0 Documentation Changes

This section describes significant changes to the documentation in each release, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content.

Release 3.9

None.

Release 3.8

None.

Release 3.7

- Content previously available in release notes for Presto has been split into two separate documents in this release:
 - Software AG Presto Release Notes, encompassing what is new or changed in this release.
 - Software AG Presto Readme (this document) encompassing what has been fixed, known issues and other critical notices for this release.
- Upgrade and migration instructions for this release, previously found in Presto release notes, have been moved to the Upgrade from Presto 3.6.1 to 3.7 topic.

7.0 Terminology Changes

Release 3.9

None.

Release 3.8

None.

Release 3.7

Old Term	New Term
Mashup Server	Presto Server Mashup Server and Presto Server were used synonymously in documentation for previous releases. This has been corrected to refer solely to the Presto Server.
Presto Add-On for Mobile	Presto Mobile The add-on to Presto has been changed to a core feature of the product, and as a result, the product name has changed.
Presto Analytics Add-On with Big Memory	Presto Analytics The add-on to Presto has been changed to a core feature of the product, and as a result, the product name has changed.

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.

Release 3.9

Added Item	Description
Freeform Dashboard	New dashboard creation component containing real time charting features.
Chart Themes	Presto now provides additional configuration for chart themes, including those provided with the bundled FusionCharts v3.4

Added Item	Description
New RAQL built-in functions	<ol style="list-style-type: none"> 1. <code>format_date</code> <ol style="list-style-type: none"> a. <code>format_date(dateColumn)</code> b. <code>format_date(dateColumn, datePattern)</code> c. <code>format_date(dateColumn, datePattern, TimeZone)</code> <p><code>datePattern</code> may be 'short', 'medium', 'long', 'full', any <code>datePattern</code> from <code>SimpleDateFormat</code></p> 2. <code>epoc_sec_to_date</code> <ol style="list-style-type: none"> a. <code>epoc_sec_to_date(StringColumn DoubleColumn LongColumn)</code> <p>Converts epoc seconds to Date type</p> 3. <code>date_to_epoc_sec</code> <ol style="list-style-type: none"> a. <code>date_to_epoc_sec(dateColumn)</code> <p>Converts Date type to epoc seconds (double format - compatible with Apama date storage in fractional seconds)</p>
Presto "Read-Only" mode	<p>In "Read-Only" mode, Presto's app and mashable creation features, such as App Editor, Mashup Editor, Mashboard, and Wires are disabled. Presto can execute and deploy apps and mashables but users cannot create new artifacts. The "Read-Only" mode is enabled only when a "Read-Only" license is applied.</p>

Removed Item	Replacement
None.	

Deprecated Item	Replacement
None.	

Changed Item	Description
REST Service Registration	Added the ability to specify HTTP request headers to be sent to the target service

Changed Item	Description
EMML/RAQL Samples	Updated samples have been provided covering EMML and RAQL functionality

Release 3.8

Added Item	Description
License Process	Presto customers will now need to install both a Presto and a Universal Messaging License when downloading and installing Presto. The product has a default 30 day license if the necessary license keys have not been obtained at the time of installation.
Connectors for Apama & Terracotta	Presto users can now directly consume Apama events in Presto. Simply register your Apama server in the Presto admin console and messages will show as mashables in Presto. Additionally, you can also register the endpoint of a Terracotta Server Array to dynamically discover caches in BigMemory.
Shared Sign-On with myWebMethods	Presto dashboards can be embedded in myWebMethods without the need to sign-on twice. See this feature in action by using the full BPM suite.
Performance Enhancements	Query time for some queries in Presto has been reduced by over 90%. The Enterprise Saxon parsing libraries have been added to Presto which eliminates several bugs in EMML and boosts performance.
Localization Support	Users will now see a drop down box on the log-in page that allows them to set their language preference. At the time of release English is the only available language; however language packs will become available in 2015.
Presto Analytics updates	Presto's RAQL analytics query language now supports cross data set functions. Please review the documentation to review the additional queries that are available. Please note that all RAQL queries may not be backwards compatible due to the syntax changes.
Dashboarding Enhancements	A new Line Chart has been added to Mashboard to allow users to easily configure event data received by the Presto server. This chart is a preview of new features coming in the next release to more easily visualize streaming data in Presto.

Removed Item	Replacement
Built-in RAQL Functions	The built-in RAQL functions <code>decimal()</code> , <code>length()</code> , <code>mean()</code> and <code>number()</code> are not supported any more. For additional information and replacements see http://mdc.jackbe.com/prestodocs/v3.8/raql/migrateQueries37to38.html .

Deprecated Item	Replacement
Built-in RAQL Functions	Some built-in RAQL functions are deprecated and should not be used any more. See http://mdc.jackbe.com/prestodocs/v3.8/raql/migrateQueries37to38.html for a full list and corresponding replacements.

Changed Item	Description
None.	

Release 3.7

Added Item	Description
License file	Presto reads license information from <code>PrestoLicense.xml</code> located in <code>install-folder/SoftwareAG/Presto/apache-tomee-jaxrs/conf</code> folder.
License changes	<ul style="list-style-type: none"> ▪ Additions to your license are no longer needed for the Presto Analytics or Presto Mobile modules as they are both now included as core components in Presto. ▪ Restrictions on the number of active/concurrent users allowed by license have been removed.
RAQL	Presto now uses a new parser for RAQL that enforces additional aspects of the SQL 2003 standard. Because of this change, some queries written in Presto 3.6 may not be compatible and must be updated to work correctly in this release. To resolve this issue, manually update mashups with RAQL statements that are no longer compatible. See http://mdc.jackbe.com/prestodocs/v3.7/administration/migrate2raq137.html for details.

Removed Item	Replacement
<code>FormatAsCVS</code> global macro	Formerly deprecated.
<code>XMLConstructorFromFile</code> global macro	Formerly deprecated.

Removed Item	Replacement
GeoAnnotator global macro	Formerly deprecated.
extractValue global macro	Formerly deprecated.
extractXML global macro	Formerly deprecated.
ConditionallInvoke global macro	Formerly deprecated.

Deprecated Item	Replacement
None.	

Changed Item	Description
Support for JRE 1.6	Presto no longer supports JRE 1.6.
Tomcat Container	Presto is now installed with the TomEE application server, the enterprise version of Tomcat.
Configuration and access to the Presto Repository	Because of differences in TomEE, the Presto Repository is accessed with JNDI. Configuration information for the repository has changed to TomEE configuration files. See Presto documentation at http://mdc.jackbe.com/prestodocs/v3.7/ for details.

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

Release 3.9

Added Service	Description
None.	

Removed Service	Replacement
None.	

Deprecated Service	Replacement
None.	

Changed Service	Description
ConfigService	Added several methods allowing configuration of events and PPM connections.

Release 3.8

Added Service	Description
LocaleSupportService	Provides details on languages included in Presto installation. Provides the following operations: - getSupportedLangauges - getAllResourceFiles - isLanguageSupported - clearCache - getMessage_ServerLocale - getMessage_ClientLocale

Removed Service	Replacement
None.	

Deprecated Service	Replacement
None.	

Changed Service	Description
None.	

Release 3.7

Added Service	Description
BigMemoryService	BigMemory Service now includes the following methods to handle registered ehcache.xml cache configuration: - deleteConfig - getAllConfigsSummary - getCacheConfig - getConfig - getConfigFile - updateConfig
PolicyManagerService	Now includes the following methods: - addPrincipalsAllowedToExecute

Added Service	Description
MetadataRepositoryService	<p>Now includes the following methods:</p> <ul style="list-style-type: none"> - activateServices - addServicesToMyFavorites - deactivateServices - deleteCategories - deleteProviders - removeServicesFromFavorites - setAttributesValues - unregisterServicesCheckDependencies - updateServicesDetails

Removed Service	Replacement
None.	

Deprecated Service	Replacement
None.	

Changed Service	Description
None.	

10.0 Added, Removed, Deprecated, or Changed Parameters

Release 3.9

None.

Release 3.8

None.

Release 3.7

None.

11.0 Added, Removed, Deprecated, or Changed APIs

Release 3.9

None.

Release 3.8

None.

Release 3.7

Added API	Description
<code>unsubscribe(topic, onData, scope)</code>	In the Presto App API, is now public. This allows custom apps to unsubscribe from topics published by other apps.
<code>Presto.require(library-name [,...])</code>	In the Presto JS Loader API, this method is now available as a convenience method to load libraries for a custom app or a pluggable view.
<code>Presto.app.load(config)</code>	In the Presto App API, this method is a new convenience method to load an app in a page dynamically.
<code>Presto.app.findApp(id)</code>	In the Presto App API, this is a new method to find a specific app by ID in the current page.

Removed API	Replacement
None.	

Deprecated API	Replacement
None.	

Changed API	Description
None.	

12.0 Copyright Information

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13.0 Support

Visit the [Empower website](#) to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the [TECHcommunity website](#) to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

JBP-RM-39-20150415