Remarks

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Release notes with changes since version 9.1.6.

Upgrade notes when upgrading to Appway 9.1.7:
- In Appway 9.1.5 and higher, a security setting disables webcam, microphone and geolocation
in the browser by default. If your Appway solution relies on any of these features, check the
documentation on the 'Feature-Policy' HTTP response header and adjust the settings
accordingly: https://community.appway.com/screen/kb/article/http-headers-set-by-appway-to-
protect-users-1868135894572#6-feature-policy.

Upgrade notes when upgrading from 9.0.x to Appway 9.1.x:
- The method UIdGenerator.getUUID() was removed in Appway 9.1 and must be replaced before
upgrading. See the Upgrade Guide for more details:
https://community.appway.com/screen/kb/article/system-upgrade-8-1-to-9-x-1747176546847#14-
replace-the-uidgeneratorgetuuid-method
- If your Appway installation uses a Relational Database or Cassandra as a Cluster Storage
backend, ensure the 'startupfiles' table is created automatically or create it manually. See
the Upgrade Guide for more details: https://community.appway.com/screen/kb/article/system-
upgrade-8-1-to-9-x-1747176546847#22-update-cluster-storage
- With Appway 9.1, you can remove manually defined node names and UID prefixes and let Apppway
generate them instead. See the Upgrade Guide for more details:
https://community.appway.com/screen/kb/article/system-upgrade-8-1-to-9-x-1747176546847#31-
automated-node-names-and-uid-prefixes
- Default values for many Style and Style Value Business Objects were modified with Appway
9.1. When upgrading, the new default values are automatically applied if you did not define a
custom value. See the Upgrade Guide for more details:
https://community.appway.com/screen/kb/article/system-upgrade-8-1-to-9-x-1747176546847#3321-
new-default-values-with-auto-migration
- Unrecommended Primitive Types are no longer available for use in some locations in the
Studio. See the Upgrade Guide for more details:
https://community.appway.com/screen/kb/article/system-upgrade-8-1-to-9-x-1747176546847#333-
handling-of-unrecommended-primitive-types

For upgrade information when upgrading to Appway 9.1 from Appway 8.1.x, see the 'System
Upgrade: 8.1 to 9.x' article:
https://community.appway.com/screen/kb/article/system-upgrade-8-1-to-9-x-1747176546847

For new Appway 9 installations, see the Installation Guide:
https://community.appway.com/screen/kb/article/system-installation-appway-9-1736030944029

For information on Known Issues in Appway 9, see:
https://community.appway.com/screen/kb/article/appway-9-known-issues-1756745073316

For documentation of new and existing features, see the Appway Knowledge Base at:
https://community.appway.com/screen/kb

For an overview of the documentation of new Appway 9 features, see:
https://community.appway.com/screen/kb/article/system-upgrade-8-1-to-9-x-1747176546847#36-
adopting-new-features

For information on deprecated and removed features in Appway 9, see:
https://community.appway.com/screen/kb/article/feature-removal-and-deprecation-with-appway-9-0
-1710706195381

For information on the Appway product lifecycle, see:
https://community.appway.com/screen/kb/article/appway-releases-product-lifecycle-and-end-of-
support-175366456942
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Appway Platform (Core)

Feature

Area	Importance	Description
Hazelcast	Low	Added a new system property that allows enabling Hazelcast Join using Multicast: 'nm.cluster.network.join.multicast.enabled'.
Performance	Medium	The performance of the 'Packages' overview page ('Solution Design' > 'Packages') and of

		other pages retrieving information on Packages (such as the 'Export' page) has been increased significantly.

Change

Area	Importance	Description
Data Logic	Low	Improved the performance of the Data Logic Editor. Opening the Editor and switching from one tab to another is now significantly faster, even for large Data Logic Business Objects (with several Controls and/or Rules).
Studio	Low	Fixed an issue where the 'Process Threads' table in Appway Studio (Solution Maintenance > Process Engine > Process Threads) was not displayed correctly when the Process Jobs were stopped.

Bugfix

Area	Importance	Description
3rd Party Library	Low	Security: Upgraded the following 3rd Party Libraries: - Jackson Databind from version 2.9.10.2 to version 2.9.10.4. - Quartz from version 2.2.0 to version 2.3.2.
Adaptive Flow Layout	Low	Fixed an issue in the 'Adaptive Flow Layout' Screen Component where clicking on the tooltip icon caused the page to scroll incorrectly.
Ajax Update Area	Low	Text Areas now use `CRLF` as line breaks instead of `LF` when data is updated via an Ajax Update Area.
Breakpoint	Low	Fixed an issue occurring at startup where the deserialization of a Business Object reference generated an exception causing Breakpoints to disappear after restart. The issue has been fixed through the lazy loading of the Business Object Reference.
Business Object Editor	High	Fixed an issue occurring in Chrome 80 and later where edited Business Objects remained locked after closing the Business Object Editor.
Data Classes	Low	Fixed an issue occurring when moving a Data Class that was mapped through the DataHistory or BusinessDataStorage Extensions to a Package that contained a Data Class with the same ID.
Data Engine	Low	Fixed an issue that caused an 'OPERATION_NOT_ALLOWED: Update-Precheck Layer' message, which occurred when adding elements to a collection under specific circumstances.
Memory Usage	Low	Fixed memory allocation computation in Process Threads and Java Threads Studio modules.
Security	Low	The default value of configuration property 'nm.errorpage.details' has been changed from 'true' to 'false'. As a result, Appway error pages no longer render a 'Show Error Information' button by default. Trying to open the details error page by entering the URL in the browser leads to a '403 - Forbidden' error message directly. Moreover, the algorithm used to generate a unique ID for every error has been improved. Instead of 8 random decimal digits, the ID now consists of 22 random alphanumeric characters. This increases the ID entropy from ~ 27 bits to ~ 131 bits. Finally, error information collected by Appway is now available in memory only for up to 10 minutes. This allows users to visit the error details page, and possibly take notes or a screenshot. After 10 minutes, error information can only be found in server logs.
Workspace	Low	The possibility to fill Text Fields and Text Areas by element drag-and-drop has been restored. When dragging some text over a Text Field or Text Area, the cursor indicates whether the target item accepts dropping. When dropping the text into the target item, its value is updated following your browser's default event handling.
WorkspaceCollaboration	Medium	Fixed an issue affecting chat components where HTML special characters used in the user's full name failed to be escaped correctly.

Appway Extensions

Feature

Area	Importance	Description
Extension	Medium	StatisticsCollector Extension 5.1.1:

		- Memory Usage: Added an option to compute memory allocation for Screens Statistics and display them in Studio ('Solution Maintenance' > 'Screen Statistics'). - Memory Usage: Added an option to compute memory allocation for Job Statistics and display them in Studio ('System Maintenance' > 'Job Scheduling').
Extension	Low	SystemHealthSensors Extension 4.2.0: A new check called 'Default Encoding' has been added to the 'System Installation' sensor. This check issues a warning if the JVM's default encoding is not set to UTF-8. See also: https://community.appway.com/screen/kb/article/system-administration-system-health-1482807177758#613-category-system

Change

Area	Importance	Description
Extension	Low	DefaultIcons Extension 3.0.2: Changed the icon indicating a PDF file.
Extension	Low	KubernetesHazelcastDiscovery Extension 1.1.0: The hazelcast-kubernetes library has been upgraded to version 1.5.3

Bugfix

Area	Importance	Description
Extension	Low	Component Extension 9.1.7: Fixed an issue affecting the GeneratedPDF Screen Component, which was not inheriting the width from its parent HTML element, when used as an <iframe> (on Internet Explorer 11).
Extension	Low	MemoryAnalysis Extension 5.1.1: Fixed startup errors when the extension was running in containers.
Extension	Low	WorkspaceCollaboration Extension 4.0.5: The 'Unread Messages Counter' in the 'Chat Popup' Screen Component is now correctly using the 'TextSecondary-inverted' Style Business Object as a default font size.