Remarks

Release notes with changes since version 9.1.7.

Upgrade notes when upgrading to Appway 9.1.9:
- 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

Appway Platform (Core)

Change

Area	Importance	Description
3rd Party Library	Low	Security: Upgraded the following third-party Java library: Jackson Databind from version 2.9.10.4 to version 2.9.10.6.
Appway Docker	Low	Upgraded Tomcat from version 9.0.35 to 9.0.37.

Images		
Security	Low	Security: The third-party JavaScript library jQuery has been patched to fix four known security vulnerabilities present in jQuery 2.2.4: CVE-2015-9251, CVE-2019-11358, CVE-2020-11022, and CVE-2020-11023. The patched library has a new version number 2.2.4-1. The fix for CVE-2015-9251 has an impact on an existing solution if it satisfies all of the following conditions: - The solution contains custom JavaScript code. - This JavaScript code sends an ajax request using jQuery's functions "$.ajax", "$.get", or "$.post". - The ajax request is sent to a third-party system, not the Appway server. - The JavaScript code does not set the "dataType" property on the ajax request. - The response to the ajax request has the content type "text/javascript". - The response contains JavaScript code. - The solution expects from jQuery that it immediately executes the JavaScript code in the response. Note that an upgrade to jQuery 3.0.0 or greater would have the same effect. This is not a special behavior of the patched jQuery version, but the official new behavior in jQuery. If a solution is affected by this change, the JavaScript code can be changed so that the ajax request have a "dataType" property set to "script". This tells jQuery that evaluation of the returned JavaScript code is intended. To check whether a solution is potentially affected, run a global search for the jQuery functions "$.ajax", "$.get", or "$.post" in Appway. See documentation: https://community.appway.com/screen/kb/article/system-upgrade-8-1-to-9-x-1747176546847#11-verify-technical-requirements
Security	Low	Security: Web Application: The new configuration property "nm.security.http.strict-transport-security.force" can be used to force Appway to always set a "Strict-Transport-Security" header, even in responses to requests on non-HTTPS connections. This is useful when Appway is running behind a load balancer and the HTTPS/SSL connection is offloaded/terminated at the load balancer. The default value of the new configuration property is "false", meaning that the header is set only if Appway detects an HTTPS/SSL connection. If set to "true", Appway will always set the header. See documentation: https://community.appway.com/screen/kb/article/http-headers-set-by-appway-to-protect-users-1868135894572

Bugfix

Area	Importance	Description
Business Object Editor	Medium	Fixed an issue that caused some Business Object Editors not to open in the specific case in which a Package had a dependency on the Business Object itself (e.g. an entry point).
Data Logic Editor	Low	Data Logic Editor performance improvement: Opening a Data Logic containing a large number of Controls is now much quicker.
JMX	High	A 'Class Not Found' Exception is now avoided by removing hidden dependencies in JXM Beans-related classes.
Move Business Objects	Medium	Fixed an issue that prevented the metadata of Business Objects that were moved/refactored from containing information of the original or final Business Object name after the move/refactor operation.
Rule Editor	Low	Fixed an issue where clicking on a Rule component resulted in losing focus on the component itself, thus preventing editing.

Appway Extensions

Feature

Area	Importance	Description
Extension	Medium	RelationalDbHazelcastStore Extension 15.2.0: - Feature: Added query timeouts to stop long running queries in

		RelationalDbHazelcastStore - Bugfix: processSLAs table has been added to DDL statements
Extension	Low	RelationalDbHazelcastStore Extension 15.2.1: Long-running queries now issue warnings. The following extension properties have been added to set the time threshold after which warnings are logged: - com.nm.cluster.relationaldb.warn.threshold.read.query.ms = 20000 - com.nm.cluster.relationaldb.warn.threshold.write.query.ms = 40000 - com.nm.cluster.relationaldb.warn.threshold.delete.query.ms = 20000

Change

Area	Importance	Description
Extension	High	SystemHealthSensors Extension 4.2.1: The 'Automatically pause too large Value Stores' functionality is enabled by default. The following configuration property, therefore, is now set to true by default: 'ValueStoreSize.pauseprocessinstances.enabled' See the following documents: https://community.appway.com/screen/kb/article/system-upgrade-8-1-to-9-x-1747176546847#335-large-values-stores-paused-by-default https://community.appway.com/screen/kb/article/system-administration-system-health-1482807177758#655-value-store-sizes-sensor

Bugfix

Area	Importance	Description
Extension	Medium	Component Extension 9.1.8: Form/Date Picker: Fixed an issue that caused the 'Form' Screen Component to crash when the user entered a date in the Date Picker in an incorrect format.
Extension	Medium	Functions Extension 5.1.3: The 'Migration:MigrateFunctions' function now correctly migrates Script Language code in Screen Custom Components.
Extension	Medium	WebServices Extension 2.10.4 Starting from WebServices Extension 2.10.1, the Joda Time library dependency was removed, and standard modern Java date-parsing features (java.time) was introduced instead. Compared to WebServices Extension 2.10.1, the following change now applies: - If time is provided: milliseconds (optional) have 1-9 digits Therefore, the pattern applied is "uuuu-M-d['T'H:m:s[.SSSSSSSSS][.SSSSSSSS][.SSSSSSS][.SSSSSS][.SSSSS][.SSSS][.SSS][.SS][.S][XXX][XX][X]]". See also: https://community.appway.com/screen/kb/article/system-upgrade-8-1-to-9-x-1747176546847#336-changes-in-the-date-parsing-feature-in-webservices-extension-210-and-later