Remarks

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Release notes with changes since version 9.1.6.

For upgrade information when upgrading to Appway 10.0 from Appway 9.1.x, see the 'System
Upgrade: 9.1 to 10.x' article:
https://community.appway.com/screen/kb/article/system-upgrade-9-1-to-10-x-1913013030042

For new Appway 10 installations, see:
- System Installation guide: https://community.appway.com/screen/kb/article/system-
installation-appway-10-1901075430266
- System Installation Using Containers guide:
https://community.appway.com/screen/kb/article/system-installation-using-containers-appway-10-
1951018786136

For Known Issues in Appway 10, see:
https://community.appway.com/screen/kb/article/appway-10-known-issues-1879068360031

For documentation of new and updated features, see:
https://community.appway.com/screen/support/news/what-s-new-in-the-knowledge-base-
1547787760507

For information on deprecated and removed features in Appway 10, see:
https://community.appway.com/screen/kb/article/feature-removal-and-deprecation-with-appway-10-
1869373509251

For information on the Appway product lifecycle, see:
https://community.appway.com/screen/kb/article/appway-releases-product-lifecycle-and-end-of-
support-1753664569425
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Appway Platform (Core)

Feature

Area	Importance	Description
Blob Storage	High	Appway 10 features a new storage location: the Blob Storage. This allows storing large binary data with Appway applications. For more information, see: - https://community.appway.com/screen/kb/article/system-installation-appway-10-1901075430266 - https://community.appway.com/screen/kb/article/blob-storage-user-guide-1956522328698 - The new 'Blob' Platform Package has been created to contain the 'Blob:Filter' Data Class.
Configuration Properties	Low	A new configuration property has been added to determine the behavior of automatic Package deployment: 'nm.packages.autodeployment.strategy'. It can be set to: 'add' (only new Packages are imported); 'upgrade' (new Packages are imported, existing Packages are upgraded, no downgrade is possible); 'replace' (existing Packages are overridden).
Configuration Properties	Medium	The 'Configuration Properties' module in Appway Studio now marks deprecated configuration properties and shows a message with the following information: since when the property has been deprecated, and in which version it could be removed. For more details on deprecations and removal, see: https://community.appway.com/screen/kb/article/feature-removal-and-deprecation-with-appway-10-1869373509251
Data Class Editor	High	A new Editor for Data Class Business Objects is available. The new Editor includes new features and enhancements. See also: https://community.appway.com/screen/kb/article/data-class-business-object-1482804734061 - The Data Class Editor now supports instant validation. The 'Validation' panel on the left displays any validation errors as soon as they occur, thus helping identify potential issues immediately. - The Data Class Editor now supports 'Undo' and 'Redo' operations to cancel an action on the Data Class, or do it again.

		- It is now possible to sort Data Class properties using drag-and-drop. The order is used by the Data Logic when unfolding a Data Class or when generating screens from an unfolded Data Class, as well as by Integration Data Classes generated through the WebServices Extension. - A library of components is available for the Data Class Editor, containing all the items that can be added to the selected tab ('Properties', 'Functions', and 'Inheritance'). - A context menu is available for components of the Data Class, with options such as Copy, Paste, Delete, and Dependencies. Moreover, it is now possible to override a function coming from a parent by using the 'Override' context menu options available on the function, which makes it editable in the child Data Class. - When a new property or function is added to the Data Class, it can be renamed as many times as required before saving the Data Class. - The Script of Data Class functions is now visible with syntax highlight to enhance readability, and can be modified using the expression editor to ensure script validation. - 'Function' and 'Static Functions' Components can now be added to the 'Functions' tab through drag-and-drop from the components library. - The signature of Functions and Static Functions can be modified either by writing the full Script ('Functions' > 'Script' tab), or by defining the components of the signature (name, parameters, return type) in the 'Function' tab. - The documentation comments of Functions and Static Functions can be modified by filling the 'Description' fields available for each tab. - The 'Inheritance' tab now displays an expandable hierarchy of parent Data Classes. Parents can be added through drag-and-drop from the right-hand library. - The 'Inheritance' tab shows additional validation information related to the inheritance hierarchy, such as cyclic inheritance or missing Data Classes. - The 'Inheritance' tab now displays an expandable hierarchy of parent Data Classes. Parents can be added through drag-and-drop from the right-hand library.
Data Logic Editor	High	The Data Logic Business Object Editor includes new features and enhancements, as well as several changes. See also: https://community.appway.com/screen/kb/article/data-logic-business-object-1739928404187 - The previous 'Correctness Rules' tab has been renamed 'Correctness Rules (Legacy)'. The 'Correctness Rules (Legacy)' tab is only visible when there are previously defined Correctness Rules. Correctness Rules can no longer be added to this tab. The new 'Catalog' and 'Correctness Expression' rules available in the 'Data Rules' tab should be used instead. - The 'Consistency Rules' have been renamed 'Data Rules'. - A migration tool is provided in Appway Studio ('Solution Maintenance' > 'Migration Tools' > 'Data Logic Correctness Rules') to automate the migration of Correctness Rules to Data Rules while providing detailed insight into any behavior changes to be expected after the migration. See also: https://community.appway.com/screen/kb/article/migrating-data-logic-correctness-rules-with-the-migration-tool-1936733350342 - As mentioned above, the new 'Data Rules' tab features a new Rule called 'Correctness Expression'. This Rule replaces the previous Correctness Rule with Source 'Script Expression'. Note that, unlike the Correctness Rule, you can apply multiple 'Correctness Expression' Rules to the same field. However, these Rules are not executed on empty String fields. - The new 'Data Logic Include' has been added to the Data Logic 'Controls' tab, and allows adding Controls from other 'Data Logic' Business Objects. - The new 'Data Logic Include' has been added in the Data Logic 'Data Rules' layer and allows adding Data Rules from other 'Data Logic' Business Objects.

		- The new 'Data Rules' tab features a new Rule called 'Catalog'. This Rule replaces the previous Correctness Rule with Source 'Catalog'. Note that, unlike the Correctness Rule, applying multiple 'Catalog' Rules to the same field results in an error. These Rules are not executed on empty String fields. - The following items have been renamed in the new 'Data Rules' tab: - 'Data Class' Rules to 'Data Class Consistency' - 'Expression (Legacy)' Rules to 'Consistency Expression' - 'Inconsistency Message' property to 'Message' - 'Consistency Expression' property to 'Expression' - Rules in the 'Data Rules' tab are now shown in the order in which they were added. Note that the order in the editor still has no influence on the evaluation of Rules. - All Rules in the new 'Data Rules' tab now display the property 'Enabled', which allows enabling or disabling the evaluation of the Rule based on custom conditions. All Rules are enabled by default. - The new Data Rules feature the 'Blocking' property, which allows specifying which Rules block the completion of the Task. - All Data Rules now display a 'Name' field, which can be used to easily identify and distinguish different rules in the Data Logic editor. - Data Rules now report a dependency on the referenced Data Class property. - The 'End Data Task Action' General Control ('Controls' tab) has been renamed 'End Task Action'. - Improved the logic that enables the buttons corresponding to 'End Task Action' Controls. Buttons are now enabled only when the corresponding sentry is Enabled, there are no active Subprocesses, and there are no violations to Data Rules with the 'Blocking' property set to 'true'. - It is now possible to drag the Control corresponding to a Property generated by an 'Unfold' operation out of its Data Class Control. - 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).
Function	Low	The new 'PdfIsEncrypted' function indicates whether a PDF is encrypted or not.
Hazelcast	Low	Added a new system property that allows enabling Hazelcast Join using Multicast: 'nm.cluster.network.join.multicast.enabled'.
Integration Links	Medium	Decoupled data is passed to Integration Links by default through the following components: 'CallIntegrationLinkFunction' Script Function, 'IntegrationLinkTask' Process Element, and 'IntegrationLinkSource' Catalog Source. This feature can be enabled or disabled through the following system property: 'nm.integrationlink.message.clone.enabled'. For more information, see: https://community.appway.com/screen/kb/article/system-upgrade-9-1-to-10-x-1913013030042
Memory Usage	Medium	Memory Allocation Statistics are now tracked and reported in Appway Studio for: - Script Functions ('Solution Maintenance' > 'Script Language' > 'Function Statistics') - Process Threads ('Solution Maintenance' > 'Process Engine' > 'Process Threads') - Java Threads ('Solution Maintenance' > 'Java Threads') - HTTP Tracing ('System Maintenance' > 'HTTP Tracing') - Scheduled jobs ('System Maintenance' > 'Job Scheduling'). - Screens ('Solution Maintenance' > 'Screen Statistics') This functionality is enabled/disabled by the system property 'nm.statistics.memoryallocation.enabled' (default value: 'true'). See also: https://community.appway.com/screen/kb/article/appway-studio-feature-overview-1497400061606#72-memory-allocation-statistics

		Note: Memory Allocation Statistics are also collected by the Statistics Collector Extension.
Platform Packages	Medium	The new 'DataClass' Platform Package allows working with Data Class Business Objects in a programmatic way. This Package contains the new 'DataClass:Reference' Business Object Reference supported by the 'DataClass:NewReference' Appway Function. See also: - https://community.appway.com/screen/kb/article/packages-1496136140789#83-platform-packages - https://community.appway.com/screen/kb/article/business-object-references-1760163550154
Script Debugger	Low	It is now possible to create, disable, or delete breakpoints in the Debugger window directly, the same way it is done in the Script Editor. However, consider that a deletion of a breakpoint in the Debugger window does not lead to resuming all the executions that are blocked by this breakpoint, so as not to finish the debug session.
Script Functions	Low	Added the following functions: - Collection:AddElement - Collection:AddAllElements - Collection:ContainsElement - Collection:GetIndexOf - Collection:HasName - Collection:ListIndicesOf - Collection:ListNames - Collection:ListNamesOf - Collection:ListValues - Collection:RemoveAllElements - Collection:RemoveElement - Collection:SetElement - Collection:Size
Script Language	Low	Several direct and indirect usages of Java in Script Language generate validation warnings. Execution, however, is not affected. This is part of a project to remove dependencies from Appway solutions and models on Java code. See also: https://community.appway.com/screen/kb/article/system-upgrade-9-1-to-10-x-1913013030042
Script Langugage	Medium	The Automigrator Tool (Migration:MigrateFunctions) has been improved and extended to support more complex migrations. See also: https://community.appway.com/screen/kb/article/system-upgrade-9-1-to-10-x-1913013030042
Security	Medium	Added configuration properties 'nm.security.http.content-security-policy' and 'nm.security.http.x-frame-options' to control the values of HTTP response headers 'Content-Security-Policy' and 'X-Frame-Options'. See the 'HTTP Headers Set by Appway to Protect Users' article for more information: https://community.appway.com/screen/kb/article/http-headers-set-by-appway-to-protect-users-1868135894572
Value Store Splitting	High	Value Store Splitting is a tuning feature which improves the performance of managing Value Stores, especially of large ones. See also: https://community.appway.com/screen/kb/article/value-store-splitting-1496325331261 For Appway 10, it contains the following features: - The new 'nm.cluster.persistence.valuestores.splitting.process.ids' configuration property allows specifying the list of Processes for which the Value Stores are to be split. Moreover, the new 'MergeAllLocalValueStores' Script Function allows marking all Value Stores as non splittable before enabling the Value Store Splitting feature. - Added the possibility to reset statistics in 'Value Store' and 'Data Entities' submodules in Appway Studio ('System Maintenance' > 'Value Store'). - Statistics per Data Entity type are shown and collected in Appway Studio under a new module called 'Data Entities'. - The 'Value Stores' module in Appway Studio now displays the 'Process' and the 'Number of Data Entities' per split Value Store.

Change

Area	Importance	Description

3rd Party Library	Low	The following libraries were added in Appway 10 (see also: https://community.appway.com/screen/kb/article/system-upgrade-9-1-to-10-x-1913013030042): - com.fasterxml.jackson.module:jackson-module-jaxb-annotations 2.9.10 - com.google.guava:failureaccess 1.0.1 - com.sun.xml.bind:jaxb-core 2.3.0 - com.sun.xml.bind:jaxb-impl 2.3.0 - jakarta.annotation:jakarta.annotation-api 1.3.5 - jakarta.validation:jakarta.validation-api 2.0.2 - jakarta.ws.rs:jakarta.ws.rs-api 2.1.6 - org.apache.camel:camel-jaxb 2.24.2 - org.glassfish.hk2.external:aopalliance-repackaged 2.6.1 - org.glassfish.hk2.external:jakarta.inject 2.6.1 - org.glassfish.hk2:hk2-api 2.6.1 - org.glassfish.hk2:hk2-locator 2.6.1 - org.glassfish.hk2:hk2-utils 2.6.1 - org.glassfish.hk2:osgi-resource-locator 1.0.3 - org.glassfish.jersey.containers:jersey-container-servlet 2.30 - org.glassfish.jersey.containers:jersey-container-servlet-core 2.30 - org.glassfish.jersey.core:jersey-client 2.30 - org.glassfish.jersey.core:jersey-common 2.30 - org.glassfish.jersey.core:jersey-server 2.30 - org.glassfish.jersey.ext:jersey-entity-filtering 2.30 - org.glassfish.jersey.inject:jersey-hk2 2.30 - org.glassfish.jersey.media:jersey-media-json-jackson 2.30 - org.glassfish.jersey.media:jersey-media-multipart 2.30 - org.javassist:javassist 3.25.0-GA - org.jvnet.mimepull:mimepull 1.9.12
3rd Party Library	Low	The following libraries were removed from Appway 10 (see also: https://community.appway.com/screen/kb/article/system-upgrade-9-1-to-10-x-1913013030042): - jstree - aopalliance:aopalliance version 1.0 - org.springframework:spring-context-support version 4.2.9.RELEASE - org.springframework:spring-jdbc version 4.2.9.RELEASE - org.springframework:spring-orm version 4.2.9.RELEASE - org.springframework:spring-web version 4.2.9.RELEASE
3rd Party Library	Low	The following libraries were upgraded in Appway 10 (see also: https://community.appway.com/screen/kb/article/system-upgrade-9-1-to-10-x-1913013030042): - com.google.guava:guava from version 20.0 to 28.1-jre - org.bouncycastle:bcmail-jdk15on from version 1.59 to 1.62 - org.bouncycastle:bcpkix-jdk15on from version 1.59 to 1.62 - org.bouncycastle:bcprov-ext-jdk15on from version 1.59 to 1.62 - com.sun.mail:javax.mail from version 1.5.6 to 1.6.2 - commons-codec:commons-codec from version 1.10 to 1.13 - commons-io:commons-io from version 2.4 to 2.6 - org.jabsorb:jabsorb 1.3.2 to com.appway:jabsorb 1.3.2-2 (custom patch) - com.hazelcast:hazelcast from version 3.11.2 to 3.12.6 - com.hazelcast:hazelcast-client from version 3.11.2 to 3.12.6 - org.apache.camel:camel-core from version 2.17.7 to 2.24.2 - org.apache.camel:camel-jdbc from version 2.17.7 to 2.24.2 - org.apache.camel:camel-jms from version 2.17.7 to 2.24.2 - org.apache.camel:camel-jmx from version 2.17.7 to 2.24.2 - org.apache.camel:camel-jxpath from version 2.17.7 to 2.24.2 - org.apache.camel:camel-ldap from version 2.17.7 to 2.24.2 - org.apache.camel:camel-mail from version 2.17.7 to 2.24.2 - org.apache.camel:camel-soap from version 2.17.7 to 2.24.2 - org.apache.camel:camel-spring from version 2.17.7 to 2.24.2 - org.quartz-scheduler:quartz from version 2.2.0 to 2.3.2 - org.springframework:spring-aop from version 4.2.9.RELEASE to 5.1.9.RELEASE - org.springframework:spring-beans from version 4.2.9.RELEASE to 5.1.9.RELEASE - org.springframework:spring-context from version 4.2.9.RELEASE to 5.1.9.RELEASE

		- org.springframework:spring-core from version 4.2.9.RELEASE to 5.1.9.RELEASE - org.springframework:spring-expression from version 4.2.9.RELEASE to 5.1.9.RELEASE - org.springframework:spring-jms from version 4.2.9.RELEASE to 5.1.9.RELEASE - org.springframework:spring-messaging from version 4.2.9.RELEASE to 5.1.9.RELEASE - Jackson Databind from version 2.9.10.2 to 2.9.10.4.
Application Servers	Medium	Support for Oracle WebLogic has been removed in Appway 10. For more information, see: https://community.appway.com/screen/kb/article/system-installation-appway-10-1901075430266
Appway logo	Low	The new Appway logo is now displayed in different places in Studio, namely, default icons, login and error screens, main page and favicon, editors, Sealed Packages. If you upgrade from Appway 9.1, to display the new logo in static Screens, see: https://community.appway.com/screen/kb/article/system-upgrade-9-1-to-10-x-1913013030042
Editor Icons	Low	Business Object Editors now display new icons.
Hazelcast	Low	Cluster/Hazelcast configuration: The 'Multicast' join method is automatically disabled when another discovery strategy is configured. See also: https://community.appway.com/screen/kb/article/system-installation-appway-10-1901075430266
Htdocs	Medium	The Htdocs feature has been moved from the Appway Platform into the Htdocs Extension. The configuration property `nm.htdocs.root` is now a configuration property of the Htdocs Extension. If you upgrade from Appway 9.1, follow the upgrade steps described in https://community.appway.com/screen/kb/article/system-upgrade-9-1-to-10-x-1913013030042
Icons	Low	Changed the icon indicating a PDF file.
Libraries	Medium	Hazelcast has been upgraded from version 3.11.2 to 3.12.6. Configuration files are automatically updated, but deprecated configuration properties need to be updated manually as described in the System Upgrade article (https://community.appway.com/screen/kb/article/system-upgrade-9-1-to-10-x-1913013030042).
Memory Usage	Low	'Memory Usage Statistics' tables in Appway Studio ('System Maintenance' > 'Memory Usage Statistics') have been updated. Moreover, manual actions to request Garbage Collection first and then trigger the computations have been added.
Platform Packages	Medium	The 'Process' Platform Package has been updated to version 1.3.0. The script function 'Process:ListProcessTokenIDs' now uses the new function 'Collection:AddElement' instead of a deprecated Java method.
Script Functions	Low	Added the following functions to replace a deprecated function (see the documentation for more details on deprecations: https://community.appway.com/screen/kb/article/feature-removal-and-deprecation-with-appway-10-1869373509251): - Collection:Sort. The function has also been moved from the Appway Platform to the Functions Extension. - ClusterCache:Clear - ClusterCache:GetEntry - ClusterCache:ListEntryNames - ClusterCache:RemoveEntry - ClusterCache:StoreEntry - Collection:Difference - Collection:Filter - Collection:Intersection - Collection:Map - Collection:Reverse - Collection:Union
Script Functions	Low	If a Script Function is exposed to HTTP requests through an Access Policy or Package Entry Point and uses a complex type as a parameter or return type, the validation generates a warning stating that Simple Entity Serialization and Deserialization is deprecated since Appway 10.0.
Script Functions	Low	The following Script Language functions have been moved to the Functions Extension: USERS, USERIDS, USERROLES. Consider that USERIDS and USERROLES have been deprecated with Appway 10 and renamed as User:ListIds, and User:CurrentUserListRoleIds, respectively. USERS was already deprecated in Appway 8. For more information, see: https://community.appway.com/screen/kb/article/feature-removal-and-deprecation-with-appway-10-1869373509251

Startup	Low	For fresh installations, when the NM user is created, a female username is used in 50 percent of the cases.
Startup	Low	The Appway startup banner has been updated. The banner can be disabled by setting the following JVM system property to false: 'nm.cluster.startup.banner.enabled'.
Studio	Low	The 'Value Store' column in the 'Process Instances' module in Appway Studio has been removed.

Bugfix

Area	Importance	Description
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.
Breakpoints	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.
Compare Versions	Low	Fixed an issue in the 'Compare Versions' screen where the Detail View icon next to the edited element was not visible although it was clickable.
Dependency Cache	Low	Statistics for Memory Holder are now computed correctly. Moreover, null target elements are no longer accepted when updating dependencies.
Portal	Low	Fixed an issue where a deprecated function was used in the default 'Portal' Screen.
Repository operations	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.
Script Language Editor	Low	The Script Language Editor validation warning now points to a correct superclass in case the current Data Class inherits from more than one superclasses.
Search	Medium	Fixed an issue where the Global Search and the Process Editor search both failed to find a Process Activity when such Activity was attached to an Integration Link.
Security	Medium	Security: 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 as 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.
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.
Studio	Low	The JSON-RMI and RPC urls displayed in the 'Network' tab of the browser view are now enriched with more information.

Appway Extensions

Feature

Area	Importance	Description
Extension	Low	AWSBlobStorage Extension 1.0.0: The new AWSBlobStorage Extension contains the Blob Storage provider to use the AWS S3 service to store Blobs. See also: https://community.appway.com/screen/kb/article/blob-storage-user-guide-1956522328698
Extension	Medium	BusinessDataStorage Extension 1.5.1: - Feature: It is now possible to store Data Classes in Sealed Packages, as well as Data Classes inheriting from Data Classes in Sealed Packages with the Business Data Storage.

		BDS configuration settings are now stored in the Package Configuration (instead of Data Class metadata). - Feature: Business Data Storage Script Functions use DataClass References to specify Data Classes to be handled by CRUD operations (Save, Read, Update, Delete). - Bugfix: Fixed an issue in the 'BDSLoadDataPlaceholderContent' Script Function that occurred when reading Data Placeholders located in inherited Data Class properties. - Bugfix: Fixed issue in Stored Data Classes: the 'Sync Changes to Database' button is now correctly enabled when a Data Class is removed from the list of stored Data Classes and at least one read-only Data Class is out-of-sync. - Bugfix: Fixed issue in Stored Data Classes: Newly added Data Classes are now correctly reported as stored after a successful sync even when there is at least one out-of-sync read-only Data Class. - Bugfix: Fixed issue in Stored Data Classes: It is now possible to sync out-of-sync Data Classes when there are stored read-only Data Classes that generated warnings related to model validation. See also: https://community.appway.com/screen/kb/article/business-data-storage-1742715018300
Extension	Low	Component Extension 10.0.0: - Feature: The 'Form' Screen Component now supports the activation and deactivation of 'Catalog' Data Rules at runtime. When the activation state of a 'Catalog' Data Rule changes, the 'Form' dynamically updates the rendered input controls impacted by the rule. - Change: Changed the icon indicating a PDF file. - Bugfix: Fixed an issue affecting the 'Actions' Screen Component (Interaction Channels) where the data of the channel was not updated correctly when starting a Subprocess. - Bugfix: The 'Unread Notification badge' in the 'Notification Popup' Screen Component is now correctly using the 'TextSecondary-inverted' Style Business Object as a default font size. See also: https://community.appway.com/screen/kb/article/system-upgrade-9-1-to-10-x-1913013030042
Extension	Low	Functions Extension 6.0.2: - Feature: The new 'PdfIsEncrypted' function indicates whether a PDF is encrypted or not. - Feature: Enhanced ENCODETEXT, DECODETEXT and ENCODETEXTMD5 functions to support Base32 codec. - Change: Some functions are being reorganized into the corresponding namespaces and, therefore, have been renamed. The deprecated functions been moved from the Appway Core Platform to the Functions Extension. See detailed info in: https://community.appway.com/screen/kb/article/feature-removal-and-deprecation-with-appway-10-1869373509251
Extension	Medium	Functions Extension 6.0.4: The Automigrator Tool (Migration:MigrateFunctions) has been improved and extended to support more complex migrations. See also: https://community.appway.com/screen/kb/article/system-upgrade-9-1-to-10-x-1913013030042
Extension	Medium	MemoryAnalysis Extension 7.0.0: The 'Memory Allocation Widget' Screen Component shows memory allocation statistics for all requests. See also: https://community.appway.com/screen/kb/article/memory-analysis-extension-1597592020689
Extension	Medium	StatisticsCollector Extension 6.0.0: - 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	Medium	StatisticsCollector Extension 6.0.1: Memory Usage: Added a feature that computes the total Memory Allocation in the ThreadMemoryAllocation collector. See also: https://community.appway.com/screen/kb/article/statistics-collector-extension-1696907405798
Extension	Low	SystemHealthSensor Extension 5.0.0: - Feature: The ‘System Installation’ sensor available in Appway Studio ('System Maintenance' > 'Health') detects potential system configuration or installation problems. See also: https://community.appway.com/screen/kb/article/system-administration-system-health-1482807177758#613-category-system - Change: The 'License Sensor' has been moved to the SystemHealthSensor Extension. - Change: The 'Access Licenses' Sensor checks if there are enough Access Licenses available to be assigned. The assigned Access License percentage is calculated per Module and per Lifetime type, Digital Logins, or Named Users.
Extension	Low	SystemHealthSensor Extension 5.1.0: The 'System Installation' sensor also features a new check called 'Default Encoding'. This check issues a warning if the JVM's default encoding is not set to UTF-8. For more information, see: https://community.appway.com/screen/kb/article/system-administration-system-health-1482807177758#613-category-system
Extension	Medium	WebServices Extension 2.11.1: - Feature: In the Data Class Editor, it is now possible to sort Data Class properties using drag-and-drop. The order is used by the Data Logic when unfolding a Data Class or when generating screens from an unfolded Data Class, as well as by Integration Data Classes generated through the WebServices Extension. See also: https://community.appway.com/screen/kb/article/system-upgrade-9-1-to-10-x-1913013030042#314-serialization-order-of-data-classes-generated-by-the-webservices-extension - Change: Data Classes generated through the WebServices extension are using new functions, such as: Collection:SetElement, Collection:AddElement, Collection:RemoveAllElements, and Collection:ListNames.

Change

Area	Importance	Description
Extension	Low	AWSHazelcastDiscovery Extension 2.0.0: The hazelcast-aws library was upgraded from version 2.3 to 2.4 to support Hazelcast 3.12.6
Extension	Low	DataStore Extension 3.6.0: Changed the icon indicating a PDF file.
Extension	Low	DefaultIcons Extension 4.0.0: Changed the icon indicating a PDF file.
Extension	Medium	Htdocs Extension 1.0.0: Change: The Htdocs Extension contains the Htdocs feature previously included in the Appway Platform. See also: https://community.appway.com/screen/kb/article/publishing-static-content-1482810865993. Consider that the configuration property `nm.htdocs.root` is now a configuration property of the Htdocs Extension. If you upgrade from Appway 9.1, follow the upgrade steps described in https://community.appway.com/screen/kb/article/system-upgrade-9-1-to-10-x-1913013030042.
Extension	Low	MailExtension 4.0.0: The library Spring Context Support has been moved from The Appway Platform.

Bugfix

Area	Importance	Description
Extension	High	Functions Extension 6.0.5: Fixed an issue where the 'Collection:Map' function did not map to Data Class instances correctly.
Extension	Low	MemoryAnalysis Extension 7.0.1: - Fixed startup errors when the extension was running in containers.
Extension	Low	ProcessAuditTrail Extension 2.7.0: - Improved the handling of duplicated data found in auditing tables when the Process Audit Trail is executed in ‘keeplatest’ mode. - Fixed the initialization of Microsoft SQL Server database when a schema is provided.
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. See also: https://community.appway.com/screen/kb/article/system-upgrade-9-1-to-10-x-1913013030042