Remarks

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NOTE THAT THIS PATCH RELEASE HAS BEEN WITHDRAWN TO AVOID POTENTIAL ISSUES RELATED TO A CHANGE
IN THE RULE BUSINESS OBJECT SERIALVERSIONUID. THIS ISSUE HAS BEEN FIXED IN APPWAY 11.0.1
(RELEASED DATE: SEPT 22, 2021).

Release notes with changes since version 10.1.5.

For Technical Requirement information, see:
https://community.appway.com/screen/kb/article/system-installation-technical-requirements-
1482807410782

For information when upgrading to Appway 11 from Appway 10.x, see the 'System Upgrade: 9.1 to
10.x' article:
https://community.appway.com/screen/kb/article/system-upgrade-10-1-to-11-x-2140770481340

For new Appway 11 installations, see:
- System Installation guide: https://community.appway.com/screen/kb/article/system-
installation-appway-11-2169641374132
- System Installation Using Containers guide:
https://community.appway.com/screen/kb/article/system-installation-using-containers-appway-11-
2170238244928

For information on deprecated and removed features in Appway 11, see:
https://community.appway.com/screen/kb/article/feature-removal-and-deprecation-with-appway-11-
2107886397762

For Appway 11 Known Issues, see: https://community.appway.com/screen/kb/article/appway-11-
known-issues-2199176263340

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
Cluster	Low	A new configuration property 'nm.cluster.maps.backup.count' has been added to set the number of synchronous backups for all the distributed maps. Default value is 1 and accepted values are 1, 2, 3. If an invalid number is set, 1 is used.
Cluster Storage	Low	I/O operations (queries) for Cluster Storage can now be limited in size. A new system property 'nm.cluster.persistence.tasks.maxsize' with a default value of 100 allows controlling the maximum size of such I/O operations.
Data Class Editor	Medium	The Data Class Editor features the enhancements listed below. See documentation: https://community.appway.com/screen/kb/article/data-class-businessobject-1482804734061 - Type guessing - When creating a new function in the Data Class editor, the function 'Type' ('Return Type' tab) is automatically guessed based on the function name. - Type guessing - When creating a new property in the Data Class editor, the property 'Type' ('Configuration' tab) is automatically guessed based on the function name. - Validation - Data Classes with long property names (longer than 30 characters) no longer trigger validation warnings. - UX - The collapsed or expanded mode of the cards, as well as the scroll position, is now maintained when switching between tabs in the Data Class Editor. - UX - The sections in the left sidebar (Validation, Dependencies...) can now be expanded and collapses for better usability. - Shortcuts- Keyboard shortcuts have been added to quickly add new properties (CTRL-E), functions (CTRL-E), and static functions (CTRL-shift-E). Moreover, the Data Class Editor now supports standard shortcuts. See also:

		https://community.appway.com/screen/kb/article/shortcut-keys-in-business-object-editors-1482803184315
Data Logic	Medium	Data Rules (Includes) - For 'Include' Data Rules, you can now use the 'Target Scope' dropdown to specify the set of Data Class Instances to be evaluated by the Included Data Rules: set it to 'Global' to apply it to all Data Class Instances in the Data Context, or 'Assigned' to apply it just to the Data Class Instances contained in Variables Assigned to the included Data Logic. See documentation: https://community.appway.com/screen/kb/article/data-logic-business-object-1739928404187#248-data-logic-include
Data Logic	Medium	Data Rules (Includes) - For Include 'Data Rules', it is now possible to execute the included Data Rules for each element of a Collection by selecting the new 'Iterative Rule Execution' option and then setting the 'Collection' and 'Variable' fields. See documentation: https://community.appway.com/screen/kb/article/data-logic-business-object-1739928404187#248-data-logic-include
Data Logic	Low	Data Rules (mandatory fields) - When editing Data Rules in the 'Data Rules' tab, mandatory fields are now marked with an asterisk. In the case of 'String' Data Rules, you need to set at least one of the String constraints for the rule to have effect. See documentation: https://community.appway.com/screen/kb/article/data-logic-business-object-1739928404187#24-data-rules-tab
Data Logic	Medium	Data Rules (Rule Target/Binding) - It is now possible to apply Data Rules to a single Data Class instance, by setting the new 'Rule Target' field to 'Specific instance of the Data Class' and then selecting the preferred instance in the 'Binding' field. This new setting is available for 'Mandatory Fields', 'Catalog Values', 'Single Property Expression', 'Multiple Properties Expression' and 'String' Data Rules. See documentation: https://community.appway.com/screen/kb/article/data-logic-business-object-1739928404187#24-data-rules-tab
Data Logic	High	Data Rules (String) --- - A new type of Data Rule, 'String', is available in the 'Data Rules' tab. The String Data Rule provides the capability to define constraints on a Data Class property of type String, such as the maximum and minimum size of the String itself. - Two additional Data Rules of type 'String', 'Email' and 'Phone Number', are available in the 'Data Rules' tab. They provide the capability to define constraints on String Data Class properties that contain an email address and a phone number, respectively. Note that 'String' Data Rules have been designed to be used specifically with the Data Gathering App Task. See documentation: https://community.appway.com/screen/kb/article/data-logic-business-object-1739928404187#243-string
Data Logic	Low	Labels - It is now possible to customize the Label used in the Workspace for the button that allows adding an element to a collection of Data Class instances. This is achieved using the new 'Add Button Label' field available for 'Collection' Controls. See documentation: https://community.appway.com/screen/kb/article/data-logic-business-object-1739928404187#221-selecting-a-label-for-controls-and-data-rules
Data Logic	Low	Script Functions - Added the Script Function 'DataLogic:IsDataLogicContext', which allows checking whether a script is executed in a Data Logic context. See documentation: https://community.appway.com/screen/kb/article/data-logic-business-object-1739928404187#32-data-logic-context-script-functions
Data Logic Editor	Low	The Data Logic Editor features the enhancements listed below. See documentation: https://community.appway.com/screen/kb/article/data-logic-business-object-1739928404187#21-data-logic-editor-overview - Layout - The overall Editor layout is aligned with the other Business Object Editors (tabs are displayed on top, Validation section on the left). - Dependencies - Dependency information ('Dependencies' section) is updated immediately after performing any changes to the Business Object, without needing to the save such changes first.

		- Validation - Instant validation is supported: any change to the content of the Business Object is immediately validated and validation messages are displayed or updated without clicking on the 'Validate' button. Additionally, Validation messages are displayed on the 'Validation' panel and ordered by severity (Error, Warning, and Info). - Shortcuts - The 'Ctrl + F' shortcut is now supported, and focuses on the 'Components' library filter on the right-hand side. See also: https://community.appway.com/screen/kb/article/shortcut-keys-in-business-object-editors-1482803184315
Hazelcast	Medium	Hazelcast has been upgraded from version 3.12.6 to version 4.0.3. Consider that this change may affect your Solution when upgrading to Appway 11. Check details in the documentation: https://community.appway.com/screen/kb/article/system-upgrade-10-x-to-11-x-2140770481340#26-edit-hazelcastxml
JWT	Medium	JWT (Json Web Tokens) is now fully supported in the Appway Platform. See Script Function documentation: https://community.appway.com/screen/kb/article/script-language-function-reference-1641896132117 - New Script Functions to create signed JWT have been added (Functions Extension): 'Auth:CreateJwtHmacSigned' and 'Auth:CreateJwtRsaSigned'. - New Script Functions to validate JWT have been added (Functions Extension): 'Auth:ValidateJwtHmacSigned' and 'Auth:ValidateJwtRsaSigned'. - The Java JWT library (Auth0) has been added.
Labels	Medium	Labels and Translations - The 'Translations' Tool is now available in the Process Editor. The tool allows checking translated and untranslated Labels, editing translations and variable assignments, and creating missing Label Business Objects. See documentation: https://community.appway.com/screen/kb/article/languages-labels-and-translations-1482805527070#214-creating-labels-from-the-translations-tool
One-click Deployment	High	One-click Deployment is a new Appway Feature that provides a set of capabilities to improve the overall experience of importing and exporting Appway Solutions across different environments. See all details in the documentation: https://community.appway.com/screen/kb/article/one-click-deployment-solution-import-export-2201707988521 Export --------- - Package Overview - In the 'Package Overview' page, you can use the following shortcut keys: CTRl+A (or CMD-A) to select all Packages, CTRL-click (or CMD-click) to select individual Packages, SHIFT-click to select consecutive Packages. - Sealed Packages - Any Sealed Package being exported displays a badge: Appway-issued Packages have a blue badge containing the A letter, non Appway-issued packages have a purple badge. - Dependencies - The 'Add Missing Dependencies' option allows adding Package dependencies. The dependency algorithm considers the selected Package versions to provide a correct dependency list. - Package version - When selecting the Package version to export, the 'Version' dropdown list always contains the following versions (among others, if any): - Head: it refers to the 'head' version of the Package, possibly containing modifications - Latest: it refers to the 'latest created' version of the Package. - Deployment Profiles - This feature allow saving Package and Configuration Business Object export settings and reuse them in subsequent export operations. - Batch operations - The 'Version' and 'Configurations' columns in the Package selection table allow batch operations to make multiple selection easier and quicker.

		- Export Notes - The new 'Export Notes' field gets automatically pre-filled with the list of Packages and versions being exported, as well as with the latest version notes for those Packages. However, you can edit the pre-filled text while performing the export operation. This information is stored in the .awdeployment file and can be seen when the file is imported. - Export file - The default name of the .AWDEPLOYMENT file generated in the export now has the format [Number of Packages]_[System ID]_[Export date] or [Deployment Profile name]_[System ID]_[Export date]. Import --------- - Upload - You can now upload the file to be imported through selection or drag-and-drop. - Upload - The 'Upload' stage includes information about the content of the file being imported, including export notes, the source system version, the number of Packages and so on. - Select - The 'Select' stage allows you to refine the content of the file to be imported by selecting/deselecting Packages and Configurations. - The 'Business Object Review' feature provides a detailed overview of the differences between local and imported Business Objects in the import procedure. - Import Log ('Confirm' stage) - The Import Log file (.csv file) contains a general recap of the import operation, full information on each imported Package and related Configurations, as well as a detailed recap of each imported Business Object. The Import Log file is available for download at the end of the import operation.
Performance	Low	The last modification time of a Value Store is now kept in the Value Store metadata index. Its value is shown in Appway Studio under 'Solution Maintenance' > 'Values Stores' ('Modified' column) and it is available in the Value Store service internally. See documentation: https://community.appway.com/screen/kb/article/value-store-splitting-1496325331261#51-value-stores
Process Instance Locking	Medium	- Feature: A new configuration property has been added: 'nm.cluster.lockpool.processinstances.type' which can be set to: 'map' to use Map Locks or 'fenced' to use CP Locks. - Change: The existing configuration property 'nm.cluster.lockpool.processinstances.size' default value has changed from 2048 to -1 to disable lock pooling by default.
Rule Business Object	Medium	The Rule Business Object has several new features described below. For full information, see the documentation: https://community.appway.com/screen/kb/article/rule-and-rule-set-business-objects-1482804401233 - Return Type - It is now possible to specify a 'Return Type' for Rules in the Rule Business Object Editor. The Return Type allows defining the type of result returned by the Rule. - Data Action - A new type of Action, called 'Data' is available in the Rule Business Object Editor. A Data Action returns a Data Class instance or Primitive Value. This feature allows defining custom actions and replaces the functionality previously provided by the Actions Extension with enhanced modeling (by providing a visual editor instead of a text-based code) and clearer access to the result of Rule evaluation. - Variables tab - When creating new Rule Business Objects, a default root Scope Element is no longer needed in the Editor. The variable definition function, in fact, is now covered by the new 'Variables' tab. You can also remove the root Scope element from and existing Rule, while keeping its child items. - Variable assignment - The new 'Variables' tab in the Rule Business Object Editor allows defining variables of type 'Assigned'. Moreover, it is now possible to assign Variables to Business Rules also: - Using the EVALUATERULE Script Function (new parameter: $variableAssignments (Named Any, Optional)). - Through the 'Rule' Action ('Variable Assignments' tab) in the Rule Editor - From the 'Evaluate Rule' Process Activity in the Process Editor (See documentation:

		https://community.appway.com/screen/kb/article/process-business-object-1482806118517#evaluate-rule)
Script Language	Medium	Namespace - The new function namespace 'Time' has been added. Two new Script Functions have been added to the 'Time:' namespace: 'Time:EpochMilli' and 'Time:EpochSecond'.
Script Language	Low	The new Script Function 'Collection:Merge' is available to merge two Named Collections. This Script Function should be used instead of 'DataMap.merge(DataMap)' for Java calls in the Script Language.
Script Language	Medium	The new Script Function 'DataClass:GetInstanceId()' is available. This Script Function should be used instead of calling the `getId()` or `getDataEntityId()` on a Data Class instance or Named or Indexed Collection directly. Auto-migration is available. See automigration details in the documentation: https://community.appway.com/screen/kb/article/system-upgrade-10-x-to-11-x-2140770481340#331-running-automatic-migration-to-new-functions-and-method-calls-recommended
URLs	Low	Added a check to verify whether URLs contain a query parameter.

Change

Area	Importance	Description
3rd Party Library	Low	The jQuery library 3.5.1 has been added. See all library updates in the documentation: https://community.appway.com/screen/kb/article/system-upgrade-10-1-to-11-x-2140770481340
Data Logic	Low	Data Rules - It is now possible to include the Data Logic currently in use in 'Data Logic Include' Rules.
Data Logic	Low	Script Functions - By default, the Script Functions 'DataLogicConsistency.Issues()' and 'DataLogicCorrectness.Issues()' can no longer be executed. These functions are outdated and are replaced by the logic to enable the Data Logic 'End Task Action' button. If you were using them in your Solution, please contact Appway Support to discuss a migration path. Note that, if you were using these functions to verify the existence of a Data Logic Context, you should use the new Script Function 'DataLogic:IsDataLogicContext' instead. See documentation: https://community.appway.com/screen/kb/article/system-upgrade-10-1-to-11-x-2140770481340
Deprecation	Medium	Following is a list of features deprecated in Appway 11 to be removed in Appway 14 or later. For full information and recommended actions, see: https://community.appway.com/screen/kb/article/feature-removal-and-deprecation-with-appway-11-2107886397762. Chat Channel ---------- - Chat Channel Screen Component and ChatChannel extension Configuration properties ---------- - Distributed Map configuration properties: nm.cluster.eviction.datahandles.maxsize; nm.cluster.nearcache.valuestores.maxsize - installation.properties: nm.install.time; nm.system.uuid; nm.pathencryption.password - Configuration properties: nm.businessobjects.namepattern; nm.businessobjects.namepattern.useWhenIdAndNameEqual Databases ---------- - Support to MySQL database Data Logic ---------- - Collaboration features in Data Logic, namely Collaboration (Legacy) tab in the Data Logic Editor, Collaboration Script Functions, Collaboration Primitive Types.

		- Collaborator Solution Template (Data Logic Package) - Data Task Process Component - Data Logic Screens - End Task Action Control - Start Subprocess Action Control - Primitive Types: DataTaskWorkitem; DataTaskWorkitem.ItemInfo - Primitive Types: DataLogicConsistency; DataLogicConsistency.Inconsistency; DataLogicCorrectness; DataLogicCorrectness.Incorrectness Interaction Channels ---------- - Form, Actions, Inconsistencies (Interaction Channels) Screen Components Java method ---------- Java method: com.nm.ruleengine.RuleExecutor.getRuleStack and context attributes: com.nm.ruleengine.RuleStack; com.nm.ruleengine.BreakOnCycle Script Functions ---------- - TIMESTAMP - CypherText()
Error Page	Low	Change: Appway now renders its own error page for HTTP status code 408 (request timeout) instead of using the application server's default error page.
Extensions	Medium	DataTable Extension: Removed the check for the Component Extension version. The DataTable Extension depends on Component Extension. However, Appway no longer enforces a check of the installed Component Extension version with respect to the version required by the installed Data Table extension. This check led to several false positive warnings in the extension panel. from now on, it will be the responsibility of system administrator to use a valid combination of Component Extension and Data Table Extension versions by following the compatibility information provided with DataTable Extension releases.
Hazelcast Force Unlock	Medium	Hazelcast Force Unlock: The functionalities contained in the HazelcastForceUnlock Extension has been moved to the Appway Core Platform and was extended to handle CP- and map locks. See documentation: https://community.appway.com/screen/kb/article/hazelcastforceunlock-extension-1482803544591
Login Page:	Low	The error messages shown to a user when authentication fails have been improved.
Media Types	Low	- The default media type for files with '.png' extension has been changed from 'image/x-png' to 'image/png'. - The following file extensions have been removed from the list of supported media types: awbackup, obd, shtml, shtm, ehtml, ehtm, rtx
Process Instances	Low	The 'Unlock' option has been removed from Appway Studio UI ('Solution Maintenance' > Process Instances') as Process Instance locking/unlocking is not supported.
Removal	Medium	Following is a list of features removed in Appway 11. For full information and recommended actions, see: https://community.appway.com/screen/kb/article/feature-removal-and-deprecation-with-appway-11-2107886397762. Case Management/Data Logic ---------- Primitive Types: CaseControl; CaseConsistency; CaseCorrectness; CaseCollaboration; CaseWorkitem Integration Links ---------- Message parameters in: IntegrationLinkTask; IntegrationLinkSource; CallIntegrationLinkFunction Script Functions (Functions extension) ---------- EndCaseTask; GetCaseContext; RemoveCaseCollectionElement; SetCasePrimitiveValue; ListTokenIDsFunction
Script Language	Medium	The execution of Java Reflection API classes (classes that reside in java.lang.reflect.* or

		sun.reflect.*) in the Script Language is completely blocked. Script Language code that uses such classes will now throw an exception during its execution. Previously, it was only showing warnings during its validation. See the System Upgrade 10.x to 11 document: https://community.appway.com/screen/kb/article/system-upgrade-10-1-to-11-x-2140770481340
Security	Medium	CSV Export: Spreadsheet applications are now prevented from evaluating formulas and formula-like cell values in generated CSV files. This also protects users from CSV/formula injection attacks. This change affects the following features: export of Labels and Overriding Translations, export of static Catalogs, and CSV-based logs for import, move, and refactor activities.
Security	Medium	Discussion: When clicking on a link for an attached file in the 'Discussion' page (Solution Design), the browser now always downloads the file instead of opening it in a new tab or window. This protects users from cross-site scripting attacks through JavaScript code injected in files.
Security	Medium	Package logos (Studio) : SVG files uploaded as Package logos now get sanitized. All JavaScript code and links to external resources are removed.
Security	Medium	Security: Several components of Appway have been changed to use SHA-256 as hash algorithm instead of MD5: - Signature of license report files. - Line signatures in audit log files. - Signatures for Base64-encoded view state and window state embedded in Workspace forms.
Startup	Low	Log statements around initializing Bricks are now printed at DEBUG level and therefore not shown by default.
Studio	Medium	Edit Profile: In order to set a new password, the user must also enter the old password.
Variable Initialization	High	Runtime exceptions in variable assignment and default expressions - A change in behavior has been introduced in Appway 11 and higher: when the evaluation of default and assignment expressions fails due to a runtime exception, the variable is not initialized to null and the exception is re-thrown. See documentation: https://community.appway.com/screen/kb/article/system-upgrade-10-x-to-11-x-2140770481340#143-runtime-exceptions-in-variable-assignment-and-default-expressions This change affects several Appway components, which are listed below with a description of their new behavior: - Business Rules - When the evaluation of default expressions of Variables defined in a Scope element of a Rule fails due to a runtime exception, the variable is not initialized to null and the exception is rethrown. This causes tokens to be suspended or scripts to fail. - Data Engine - The reporting of error conditions related to variable initialization has been improved so that they result in local errors instead of making the whole Data Engine to fail. - Data Task and App Tasks - When the evaluation of default or assignment expressions of a Data Task or App Task fails due to a runtime exception, the variable is not initialized to null and the exception is rethrown. This causes tokens to be suspended or scripts to fail. - Data Logic functions - When the initialization of the variables of the given Data Logic fails, the 'DataLogic:EvaluateDataRules' function throws an exception. - Data Logic Screens - When the evaluation of default or assignment expressions of a Data Logic Screen fails due to a runtime exception, the variable is not initialized to null and the exception is rethrown. This results in errors in the Screen where the Data Logic Screen is used. - Integration Links - When the evaluation of default or assignment expressions of an Integration Link fails due to a runtime exception, the variable is not initialized to null and the exception is rethrown. This causes tokens to be suspended or scripts to fail. - Mail Extension - When the evaluation of default or assignment expressions in a Screen

		rendered through the GetScreenHTML function or in a Screen for notification delivery channels fails due to a runtime exception, the variable is not initialized to null and the exception is rethrown. This causes tokens to be suspended or scripts to fail. - Mail Adapter Extension - When the evaluation of default or assignment expressions of a Screen rendered through GetScreenHTML function fails due to a runtime exception, the variable is not initialized to null and the exception is rethrown. This causes tokens to be suspended or scripts to fail. - PDF Output - When the evaluation of default or assignment expressions in a PDF Output rendered to PDF fails due to a runtime exception, the variable is not initialized to null and the exception is rethrown, and no PDF will be rendered. This causes tokens to be suspended or scripts to fail. - PDF Output Table - When the evaluation of default or assignment expressions in the PDF Output Table fails due to a runtime exception, the variable is not initialized to null and the preview fails with no PDF rendered; the exception is shown in the screen. - Screens - If an exception occurs during the initialization of a Screen variable Scope, or the initialization of a certain Screen variable, the variable is no longer initialized to null and ignored during Screen rendering, but treated as non-initialized and results in red error boxes if the variable is used in the Screen. Finally, consider the following: - The new behavior can be disabled by setting this configuration to false (default is true): 'property:nm.exprlang.exception.onScopeInitError'. However, consider that this configuration property is deprecated and will be removed in Appway 14 or later, therefore we recommend moving to the new behavior. The property is maintained for backward compatibility. See deprecation details: https://community.appway.com/screen/kb/article/feature-removal-and-deprecation-with-appway-11-2107886397762

Bugfix

Area	Importance	Description
Adaptive Flow Layout	High	Fixed an issue that prevented the 'Show As Popup' action from working on elements placed inside an 'Adaptive Flow Layout' Screen Component.
Data Class	Low	Fixed an issue occurring when a child Data Class overrode a function with covariant return types where an unnecessary validation error was reported.
Data Logic	Low	Data Logic 'EvaluateDataRules' Function: the function now correctly fails when an exception is encountered during the evaluation of Data Rules.
Data Logic	Low	Data Rules - Fixed an issue in the Data Logic that caused 'Multiple Properties Expression' and 'Cross-Data Class Expression' Data Rules to be evaluated when no 'Affected Field' was defined.
Extensions	Low	Extension Configuration ($dataHome/extensions/configuration.xml) is now always read using UTF-8 instead of wrongly considering the default platform encoding.
Notification Management	Low	Fixed cross-site scripting issues in Appway Studio.
Script Language	Low	Script Language Validation: A validation check has been introduced to the NewObject function, which covers both quoted and unquoted versions of the argument.
System Health	Low	Integration Link Consistency Sensor. In addition to the Integration Link overall, each Integration Link node also reports its own state (application state). When comparing states from nodes that are not RUNNING, such states are not taken into consideration for the overall sensor 'veredict'.
Web API	Medium	Improved the performance of JSON serialization in Web Api

Appway Extensions

Feature

Area	Importance	Description
Extension	Medium	AppTask, AppTaskAPI, DataGathering Extensions 2.0.0:

		See the Data Gathering 2.0.0 Release Notes: https://community.appway.com/screen/support/news/release-data-gathering-v2-2203009258574
Extension	Low	AzureHazelcastDiscovery Extension 3.0.0: This new extension version uses Azure Managed Identities to enable the AzureHazelcastDiscovery service. See documentation: https://community.appway.com/screen/kb/article/azurehazelcastdiscovery-extension-1748064087931
Extension	Low	BAM Extension 4.0.0: The 'BAM' Extension can now be used with PostgreSQL Database. See documentation: https://community.appway.com/screen/kb/article/system-installation-technical-requirements-1482807410782#3-supported-databases
Extension	Medium	ClusterTools Extension 9.0.0: - Feature: A new tab for 'Hazelcast Map Locks' has been added in Appway Studio ('System Maintenance' > 'Cluster Tools'). - Feature: All 'Cluster Tools' tabs in Appway Studio ('System Maintenance') now provide links to Appway documentation. - Feature: The 'Hazelcast Maps' module in Appway Studio ('System Maintenance > 'Cluster Tools') now displays the additional tab 'Hazelcast Map Configurations'. - Change: The existing 'Locks' tab in Appway Studio has been renamed 'Hazelcast CP Locks'.
Extension	Medium	DefaultIcons Extension 4.3.0: New icons have been added to support Application Business Components (ABCs). Moreover, minor fixes have been performed on existing icons.
Extension	Medium	Deployment Extension 13.0.0: - The 'ExportPackage()' Script function has been modified to use the new APIs provided by the Appway Core Platform. This brings overall performance and stability improvements to the function, but does not change the function signature, so existing usages of the function keep working as before.
Extension	Medium	Function Extension 7.0.0: - Feature: Script Language - Four Script Functions for password management have been added to avoid having solutions to call the KeyService directly: 'Auth:StorePassword'; 'Auth:RetrievePassword'; 'Auth:HasPassword'; 'Auth:RemovePassword'. Documentation will be available soon. - Feature: Script Language - A new Script Function 'System:MajorVersion()' has been added. - Change: The 'Record', 'Records' and 'List' functions throw an exception when the initialization of the variables of the given Catalog fails. The 'GetDataContext' and 'CreateAndEvaluateContext' functions throw an exception when the initialization of the variables of the the given Data Logic fails. This is part of a change in behavior introduced in Appway 11 and higher. See the Release Notes on 'Runtime exceptions in variable assignment and default expressions' for further information.
Extension	Medium	NmLoginServiceAdapter Extension 1.3.1: - Login Page: The new configuration property 'nm.login.formbased.enabled' can be used to disable the login form on Appway's default login page. The new configuration property 'nm.login.openidconnect.enabled' can be used to disable the OpenID Connect integration on Appway's default login page. Note: This feature has been developed specifically for Cloud installations.

Extension	Medium	OfflineWorklistClient Extension 6.0.0: The OfflineWorklistClient Extension can now be used with PostgreSQL Database. See documentation: https://community.appway.com/screen/kb/article/system-installation-technical-requirements-1482807410782#3-supported-databases
Extension	Low	ProcessAuditTrail Extension 3.0.0: The ProcessAuditTrail Extension can now be used with PostgreSQL Database. See documentation: https://community.appway.com/screen/kb/article/system-installation-technical-requirements-1482807410782#3-supported-databases
Extension	Low	StatisticsCollector Extension 7.0.0: Script Language - Nodes joining a running cluster align their state of the scheduler and the Job triggers to the corresponding runtime states of the other nodes.

Change

Area	Importance	Description
Extension	Medium	Money Extension 1.6.0: The 'CurrencyRate', 'CurrencyPrecision' and 'MoneyConvert' functions throw an exception when the initialization of the variables of the 'Currency' Catalog fails. This is part of a change in behavior introduced in Appway 11 and higher. See the Release Notes on 'Runtime exceptions in variable assignment and default expressions' for further information.
Extension	Low	SystemHealthSensors Extension 6.0.0: The 'DataHomeCleaner' job in now enabled by default (in previous versions, it was disabled by default).

Bugfix

Area	Importance	Description
Extension	Medium	DataStore Extension 3.7.0: Improved handling of URL encoding for 'Binary' and 'SQL Query' buttons in the UI due to changes in application server handling starting from Tomcat 9.0.34.
Extension	Medium	Actions Extension 3.2.0: Fixed cross-site scripting issues in Appway Studio.
Extension	Medium	Component Extension 11.0.0: Fixed an issue occurring in Package and global validation, where 'Info Table' Screen Components returned an Internal Error.
Extension	Medium	DrawingAreaComponent Extension 1.0.2: Fixed an issue that prevented finishing drawing a line when using a stylus pen after lifting the support from the touch screen.
Extension	Low	Functions Extension 7.0.1: Validation: The 'SetKey' and 'HasKey' Script Functions no longer show a validation warning if a crypto key does not exist yet.
Extension	Medium	IntegrationLinkComponents Extension 1.7.0: Integration Links - Fixed an issue that prevented the startup of Integration Links when they tried to connect to an ActiveMQ broker with authentication enabled.
Extension	Medium	LdapSyncAdapter Extension 7.0.2: Bugfix: The extension now supports ActiveDirectory groups with more than 1500 users.
Extension	High	WorkspaceCollaboration Extension 5.0.0: Fixed an issue where Workspace screens returned an error or were rendered incorrectly

		with the WorkspaceCollaboration Extension installed and Appway running on a WebSphere AS.