

Remarks

Release notes with changes since version 6.0.2.

Upgrade Notes:

No special actions are required when upgrading from Appway 6.0.2 to 6.1.

Appway Platform (Core)

🔑 Feature

Area	Importance	Description
Cluster	Medium	Performance: Value store eviction (value store loading on-demand) can now be enabled. The configuration property "nm.cluster.eviction.valuestores.maxsize" allows to set a cap on the size of the value stores map. The configuration property "nm.cluster.eviction.valuestores.maxidle" allows to evict value stores from main memory after they were not used for a certain amount of time.
Cluster	Low	Performance: Write command queue for process instances added. This avoids unnecessary write operations if they fall within a configurable time interval. (disabled by default)
Cluster Log	Medium	The configuration property "nm.cluster.log.threshold" may be used to specify a log level threshold for entries written to the cluster log. Only entries with a level greater or equal to this threshold are appended to the cluster log. The default value is "DEBUG". Other possible values are: "ALL", "TRACE", "INFO", "WARN", "ERROR", "FATAL" and "OFF". Setting this property to a value higher than "DEBUG" may reduce memory usage.
Configuration	Low	New configuration property 'nm.cluster.additional.nosync.properties' added. This property allows to configure additional properties which should not be synchronized across all nodes.
Configuration	Low	New configuration property 'nm.cluster.additional.unique.properties' added. This property allows to configure additional properties which should be unique across all nodes.
Core	Low	SSL: <ul style="list-style-type: none"> - Added the possibility to register a custom key manager, trust manager or SSLSocketFactory. - Added the possibility to have different HttpMethodExecutors registered by name. - Added new HttpMethodExecutor that supports addition of Cookies directly. - Fixed issue where the key manager and trust manager were not updating their key stores after a change was made. Added flag to use App Server SSL Context.
Data Sources	Low	Added DB2 to the list of database vendors.
Logging	Medium	Appenders for Cluster Log and Libraries Log added to root logger. Log messages generated by third-party libraries (e.g. Hazelcast) are now written to a new log file with name "libs.log".
Monitoring	Low	JMX MBean to query number of acquired locks.
Process Editor	Medium	The property "Task List Name" of activities (tasks and sub-processes) is now dynamic. If an expression is entered, it is evaluated when the process token is initialized for this activity. The participant has already been set at that time. The expression therefore has access to the participant as well as to the loop variable (if a loop has been defined on the activity). The evaluation result is stored in a process token property with name "TaskListName".
Screen Components	Low	Button: New property "Tooltip" added.
Screen Components	Low	Password Field: Added "onenterkey" action to Password Field component.
Script Callbacks	Low	Changed to use CustomHzValue and adjusted ScriptCallbackManager startup to allow script callbacks to be registered via extensions
Studio	Low	Import Dialog: It is now possible to hit enter in order to close the progress window, when an import has finished.
Studio	Low	Logging: Log viewer now allows to select "WARN, ERROR, or FATAL" and "ERROR or FATAL" to show any warnings or any errors respectively.
User Messaging	Low	Notification topics can now have names (not only an ID). The way to specify a name is via an additional (optional) String parameter of the CreateTopic function. The name is then

		stored in the backend and can be used by the notification screen components (part of the ComponentExtension) and via the SDK.
User Messaging	Low	The chat backend now records ChatEvents. A ChatEvent occurs when a user joins/leaves a chat, or when a user is invited, an invitation is accepted or fails. There are new primitive types ChatSystemMessage and ChatEvent. ChatSystemMessage is a subtype of ChatMessage. A ChatSystemMessage contains and represents a ChatEvent. The result of the LoadChatMessages function now also includes ChatSystemMessages, if activated with the new optional last parameter (boolean flag).
User Messaging	Low	The discussion backend now supports boolean filters for discussion messages (e.g., to retrieve messages that were sent by a certain user *and* in a certain context). There is the new primitive type DiscussionMessageFilterExpression which represents such a filter, and DiscussionMessageFilter is now a subtype of this type. There is also a new primitive type DiscussionMessageFilterExpressionBuilder which has static methods to build a filter expression. The LoadDiscussions function's first argument is now DiscussionMessageFilterExpression such that it can handle simple DiscussionMessageFilters as before, or complex DiscussionMessageFilterExpressions.
User Messaging	Low	The notification backend now supports attachments for notifications. You can supply attachments via the new (optional) parameter "\$attachments" of the SendAddressedNotification and SendPubSubNotification functions and retrieve the attachments via the new method getAttachments on the primitive type NotificationMessage.
User Messaging	Medium	The sendPubSubNotification function now has an additional optional parameter "excludeSendingUser" (boolean flag), which, when set to true, has the effect that the supplied sending user does *not* receive the notification.
User Messaging	Low	There is now an automatic notification cleanup job. Notifications older than the new configuration property "nm.usermessaging.notification.ttl_days" are periodically deleted.
User Messaging	Low	There is now the possibility to register script functions that are called when a certain event happens. The supported events are: - Chat event (new message, user joined/left, ...): Register with RegisterChatEventCallback function - Discussion message: Register with RegisterDiscussionMessageCallback For unregistration, there is the function UnregisterCallback. The currently registered callbacks can be seen in the Studio under Administration --> Script Language --> Script Callbacks
Workspace	Low	Support for "{#lcon:...}" tokens in CSS and JS files.

 **Change**

Area	Importance	Description
Administration	Low	License Reports: The file format for encrypted license reports has changed. Reports generated with Appway 6.1 are now encrypted with AES instead of DES. A new file header starting with "# @Encrypted" has been introduced to be able to distinguish old reports from new reports.
Administration	Low	System Report: Added debug logging to system report to see required duration to compute each part.
Administration	Low	User Messaging: The former studio administration page "User Messaging" (Administration --> System --> User Messaging) has been divided into the administration pages "Workspace Collaboration" (for chat and discussions), and "Workspace Notifications" (for notifications).
Cluster	Low	Cluster Locks: Increase default write lock pool size from 64 to 256. This will reduce the number of lock collisions in larger installations.
Cluster	Low	License Service: Access license manager throws an exception if it is initialized before the cluster services has been started.
Cluster	Low	Startup: Increase wait time during cluster service initialization from 21 to 61 seconds.
Data Sources	Low	Updated SQL state script for Sybase from 'select 1 from sys.types' to 'select 1'.
DataTable	Low	Null values will now be displayed as empty strings instead of "null".
File Path Encryption	Low	Appway now uses AES with 256 bit keys and a random salt instead of DES to encrypt file paths. File paths encrypted with DES in Appway 5.x or 6.0 can still be decrypted in Appway 6.1. The new encrypted file paths are significantly longer. Important: If Java Cryptography Extension (JCE) Unlimited Strength is not installed, the path encryption password is

		truncated to 7 characters. Moving from a system without JCE to a system with JCE may require a manual truncation of the password to 7 characters. Moving from a system with JCE to a system without JCE is supported only if the password on the old system was not longer than 7 characters.
File Path Encryption	High	Check that the configuration property "nm.pathencryption.password" is defined and has a non-empty value when upgrading to Appway 6.1. Otherwise encryption and decryption of file system paths will fail.
Process Engine	Low	If the log level for the logger "WorkflowEngineServiceImpl" is set to INFO, a stack trace is logged whenever a recursive call to the method "updateWorkflowInstance" is detected.
Screen Editor	Low	If a component does not provide its own editor renderer, an empty box will be rendered. So far the box contained the name of the component, which was not usefull, since the title already contains the name.
Screen Editor	Low	Renamed Button types.
Script Language	Low	Function "ProcessToken": An additional optional parameter can be used to pass a process instance id. If it is specified, the function limits its search for the given process token to this process instance. This has a positive impact on the performance of the function because it may save an expensive search through all process instances.
Security	Low	Integration of OWASP Enterprise Security API (ESAPI) library 2.1.0 into Appway 6.1. The ESAPI library is configured and initialized on Appway startup, unless the configuration property "nm.security.esapi.init" is set to "false". The following locations are checked to find ESAPI configuration files: 1. directory path specified by Java system property "org.owasp.esapi.resources", 2. directory "<DataHome>/conf/esapi", 3. class path directory "/esapi". Appway contains default ESAPI configuration files on the class path under "/esapi/ESAPI.properties" and "/esapi/validation.properties".
Studio	Low	Administration: Email: The mail configurations are now displayed with a DataTable.
Studio	Low	Administration: Job Scheduler: The scheduled jobs are now displayed in a DataTable.
Studio	Low	Administration: Licensing: History: The history is now displayed using a DataTable.
Studio	Low	Global search link now has orange background to be more noticeable.
User Messaging	Low	All User Messaging script functions (functions to create/load discussion/chat/notification messages) are now case-insensitive with respect to supplied user IDs. In particular, they convert given user IDs which are equal to an actual Appway user ID except for possible differences in characters being uppercase/lowercase to the correct Appway user ID. For instance, if you supply a user ID "mustermann", and there exists a user with ID "Mustermann", the functions will work with ID "Mustermann" instead of "mustermann".
User Messaging	Low	The method getUserReadableType() on the class and primitive type NotificationMessage has been replaced by the method getType() and is deprecated. It will be removed in Appway 7.
Workspace	Low	UAT Toolbar: LabelManager and UserAcceptanceTest users long longer get access denied errors when showing the toolbar. The corresponding features that require higher access rights will no longer be displayed in the toolbar if the user is not an administrator.

Bugfix

Area	Importance	Description
Administration	Low	Mail: Testing an outgoing mail configuration no longer throws a NullPointerException if the configuration does not specify a sender (From) email address.
Cluster	Low	Distributed Tasks: Do not leak thread-local data into Hazelcast operation threads.
Cluster	Low	Thread-Local Caches: Release write locks on rollback.
Cluster	Low	User Service: Only returned thread-local copies of User objects.
Cluster	Low	Value Stores: Do not cache/reuse XML serializers.
Configuration	Low	Avoid wrong warnings in configuration.
Console	Low	Value Stores: Context menu action "Find Usages" now uses a predicate to perform a distributed search. Process instances are no longer loaded over the network.
Data Class Editor	Low	Fixed inheritance dialogue.
Data Class Editor	Low	updating UI when property details were open/visible was slow and impacted overall application performance. This has been fixed by pre-creating option sources for Collection Type and Data Class drop downs.
DataTable	Low	Date/Time Filter: When entering a date directly into the input field, the table will no longer

		be updated as long as the value has not changed.
DataTable	Low	DateTimeFilter: When entering a date directly into the input field, the table will no longer be updated as long as the value has not changed.
Deployment	Low	Fixed inconsistency in how BOs that are allowed to be imported are determined. In some situations, BOs were visible in the import dialog, but did not actually get imported because they were the exact same BO version that was already head on the local system. These BOs can no longer be selected for import.
HTTP Tracing	Low	Do not keep statistics for process screens excluded by screen id pattern.
Integration Links	Low	Fixed default character encoding property for XML Converter.
PDF Output Table Editor	Low	Cell spacing values for left and right do not override values for top and bottom anymore.
PDF Outputs	Low	Extraction of information about fonts used in PDF documents works again. This feature was broken since Appway 6.0. Validation of PDF Output objects now reports usage of unembedded fonts again.
Process Editor	Low	Breakpoint state has not been updated when disabling/enable a breakpoint on a process element.
Process Engine	Low	Attached Error Intermediate Event: Do not recreate scope for cancelled process token when saving error code or exception in error variable.
Process Engine	Low	Process Job Scheduler: Process job triggers are not created twice on startup.
Process Engine	Low	Process Job Scheduler: Thread sleeps only if duration is not negative.
Process Engine	Low	Use distributed tasks to reassign and cancel process instances bound to an HTTP session.
Processes	Low	Integration Link Task: Fixed validation when integration link id is defined via script.
Rule Editor	Low	Fixed delete key behaviour on default rule elements.
Script Language	Low	Dependencies: Dependency to static data object function must reference the class where the static method is defined instead of the class where it is called.
Script Language	Low	The function "CREATEPROTOTYPE" does no longer initialize or call the NEW constructor when creating a prototype data object.
Security	Low	Align restrictions in AccessControlFilter with security constraints defined in web.xml deployment descriptor.
Studio	Low	About Dialog: The "About" page ("/admin/about.jsp") no longer generates an error. The XSD file "libraries.xsd" has been renamed to "dependencies.xsd". Note that the same XSD file exists in two locations: "webapp/lib/webapp/dependencies.xsd" and "core/src/com/nm/sdk/data/xml/xsd/dependencies.xsd".
Studio	Low	Administration: Configuration: The configuration warnings are now shown again in the lower right corner of the table.
Studio	Low	Administration: Logging: LogViewer: Clicking on the reload button of the LogViewer tab now reloads the content correctly.
Studio	Low	Console: ProcessInstanceDetailsPanel: Fixed a possible NPE.
Studio	Low	Developer Dashboard: Time-based developer dashboard graphs now only show one date a week on the x-axis labels, preventing date labels from running into each other.
Studio	Low	Modal Window: When prompting the user, the focus now stays on the first field of the window, so the user can type something immediately.
Studio	Low	Modules: The module reload button will no longer disappear if an extension is started/stopped.
Studio	Low	System Report: Increase timeout to compute system report to 5 minutes.
Studio	Low	The cluster node icons are now transparent even if a row is selected.
Test Data Editor	Low	Fixed incorrect behavior whenever a bo is set to null.
User Messaging	Low	Fixed race condition potentially causing a deadlock in the LuceneDocumentIndex class during multi-node startup.
User Messaging	Medium	Fixed the bug causing a user to retrieve a notification multiple times in case he is subscribed to multiple topics of a notification.
User Messaging	Medium	Fixed the problem causing a Lucene TooManyClauses exception when retrieving more than 1024 discussions at once.
Workspace	Low	Throbber: When, during an Ajax Update Area update, an error that interrupts the Ajax call

		occurs, and there is a Throbber component that shows a throbber for that call, the throbber would not be removed from the Screen, and would continue spinning infinitely. This change now clears all affected running throbbers from the Screen when an Ajax Update fails.
Workspace	Low	UAT Toolbar: If a user is in role LabelManager or UserAcceptanceTest but is not an Administrator, the UAT toolbar will no longer end up in an endless loading loop.
Workspace	Low	When nm.workspace.css.version was set to v1, but an Info Table component had the Adaptive Layout property turned on, no layout was applied to the table, and header elements were shown twice.

Release Notes 6.1.1 - Patch Release | 23.06.2014

Remarks

Release notes with changes since version 6.1.

Upgrade Notes:

No special actions are required when upgrading from Appway 6.1 to 6.1.1.

Appway Platform (Core)

Bugfix

Area	Importance	Description
Notifications	Low	Ignore empty receiver sets in notification routing to avoid warnings for a non-existing notification channel even if no user is actually subscribed via this channel.
Script Editor	High	Security: Add class "VariableDefinition" to list of trusted Java classes for JSON-RPC requests. This is a fix for a bug introduced in 6.1.