

8.7.5 Patch Resolved Issues

Ticket #	Issue #	Title	Description	Product Area
INC-229623	763197	App Studio case type creation chooses correct ruleset	When the application ruleset had versions such as 01-01-01 and 01-99-01 and 01-99-01 was unlocked, during the case type creation App Studio was always selecting the 01-99-01 version to create the rules even though the application rule had restricted the version to 01-01. Analysis showed the activity PZCREATECASETYPEWRAPPER step 8 was using the GetRuleSetVersion function to get the ruleset version to save all the rules and was always returning the highest unlocked ruleset present for a ruleset. This has been resolved.	Case Management
INC-234225	748909	Mashup parameters correctly passed	After embedding the Create Case mashup inside a Pega application, creating another case inside the mashup by using the Create Work action on the click of a Create Case button, the properties set on the action were not getting passed to the original case. This has been resolved with updates to the pega_desktop_support javascript file to get the parameters in Mashup when the create work action set is being used.	Case Management
INC-239347	772002	Improved accessibility for Case Manager	Role="Main" was configured at two places in the DOM for Case Manager which resulted in a structural error in Accessibility Inspector. This has been resolved by modifying the accessibility of Aria's role from Main to Presentation in the pyCaseManager7 section.	Case Management
INC-240873	761213	Added update/delete assignment exception handling for bulk approval	When using bulk approval for pending approval cases, the flow was not resuming after a wait shape. This has been resolved by adding exception handling in the pzUpdateAndDeleteAssignments activity.	Case Management
INC-244281	758492	Error message from AttachFile localized correctly	The error message "Failed To Save File" from the AttachFile activity was not localized accurately due to a formatting error. This has been corrected.	Case Management
INC-245267 INC-243845	759520 769022	Flow error resolved for Split for Each	After completing the assignments in a screenflow launched from a Split for Each utility, a validation error was generated when a second user clicked on the breadcrumb to change to another assignment within the screenflow. This was a missed use case related to the GoToPreviousTask activity (which calls jumpToTask) not getting the correct flow name and task name parameters to navigate due to the split. This has been resolved by adding the new property pxSubscript which holds the flowname with subscript for split flows on pyFlowData.	Case Management
INC-245502	767488	Added check for application logo error in Cosmos portal	A null pointer error was generated if no application logo was present or it became corrupted. This has been resolved with the addition of a null check before adding the application logo to the structure.	Case Management
INC-249902	772468	DSS added for MaxChildCasesToBeProcessedInDependency	Very slow Wait shape processing performance was seen when there were more than 499 child cases in a parent case. This has been resolved by adding a DSS to control the processing of dependent cases where Current AG is same as Dependent AG. Use "MaxChildCasesToBeProcessedInDependency", and provide the value for maximum number of cases to be processed in same thread. By Default the value is set to 499.	Case Management
INC-252536	772092	Status visible in history after field auditing	After performing field auditing for the pyStatusWork property and changing the status of the case, the field audit of the case history showed the old value in the UI even though the the D_pxFieldHistory data page had the new value. This was due to some non-autogenerating code present, and has been resolved by reworking the visibility conditions in pyDynamicNewValue and pyDynamicOldValue and adding StatusWork in the pyIsControlHandled rules.	Case Management
INC-253078	776819	Added harness type for custom temporary case	After creating a custom implementation which created a work object in a new tab, the form content was not showing when the browser refreshed. This was traced to a missing harness type when refreshing a temporary case created in a dynamic container, and has been resolved by adding a pyCreate value for the harness purpose in the pyIsHarnessTypePerform when rule.	Case Management
INC-253340	771194	BAC attachment issue resolved	Clicking "Attach Content" was not bringing up the dialogue box to attach content. Network call logs showed "HTTP 403 error" and a SECU0019 alert was observed. This was an issue with BAC, and has been resolved by registering the AttachmentForECM local action in the Work-.pyAdvancedAttachmentMenu navigation menu.	Case Management
INC-257406	780803	Step added to stop busy indicator for zero length file upload error	If a 0KB file was attached using the pzMultiFilePath control, clicking on "Okay" on the pop-up warning message did not dismiss the busy indicator. This was traced to a missing step for this scenario which would stop the busy indicator for an incomplete file upload, and this has now been added.	Case Management
INC-243588	762163	Check added to clear outdated activity status for rollback	Response from the REST service indicated failure even though a rollback was successful. Investigation showed the API used to verify the existence and availability of the history table was setting the activity status on failure and the rollback feature was not clearing this status. As a result this status was promoted to the service page along with the corresponding rule message. This has been resolved by clearing processing statuses after checking isClassValid.	Cloud Services
INC-245623	762198	Performance improvement for import synchronization of non-rule instances	Synchronization performance was poor when importing a small number of non-rules into tables containing millions of rows of the same class. This was a missed use case caused by import synchronization iterating over every instance of a non-rule class (reading from the database) and not examining any of the data if the instance read from the database was not included in the archive, which is in contrast to rules where it is necessary to look at every rule for a given type to handle cases where rules are being deleted. This has been resolved by optimizing the query for the import synchronization process for non-rule instances so only the specific instances that are contained in the archive being imported are retrieved.	Cloud Services

8.7.5 Patch Resolved Issues

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INC-245949	761567	ServiceUtils log message retention updated to prevent out of memory condition	Running column population from ServiceUtils resulted in an out of memory error when handling an extremely large database table. This has been addressed by limiting the number of Log- messages that are retained to prevent unbounded growth.	Cloud Services
INC-249918	768616	BCEL library updated	The Apache Commons BCEL library has been updated.	Cloud Services
INC-251646	779760	Null DateTime check added for column population job after import	When importing a RAP file, the StatementYear column was created and the column population job was scheduled and started, but the job was only running for a portion of the table. Running 'optimize for reporting' on the same property later caused the time column population job to complete for the entire table. This could be seen the landing page first showing 18% complete but no errors for the first job, then the optimized job showed 100% completed. This has been resolved by modifying MaxCommitDateTimeFilter to consider pxCommitDateTime is NULL as well in order to include rows without a timestamp.	Cloud Services
INC-239192	756825	Filtering added to display email subject in brackets	If an email subject was contained in angle brackets, it was considered an HTML tag and was trimmed. This has been resolved by updating pyGetEmailMessageDetails to escape the subject for display on the UI and other places that were relying on pyMessageMetadata.	Conversational Channels
INC-239792	762297	Corrected creating a suggested email reply	When configuring an email channel in App Studio using the French locale, adding suggested replies to the Behavior tab was followed by the expected suggestion to create a new one. However, clicking on the Submit button of the popup to add another reply did not work. This was caused by the system failing to find an open Ruleset for the Citizen developer, and has been resolved by using pxCreateRecord instead of pxUpdateRecord.	Conversational Channels
INC-243142	757489	Additional validation added for MSGraph reply email	After switching the email account receiver to MSGraph, operators were able to send replies with an email address in an incorrect format. The email ID was highlighted in red indicating it was not in the correct format, but the Send button was not disabled. Clicking on send submitted the form but did not send the email. To resolve this, a new edit validate rule has been added to double validate an email address with a personal name included.	Conversational Channels
INC-249636	769491	Consistent Data extraction from emails	When extracting key-word based data from emails, the data extracted from the body or the subject of email was different than the data extracted from the attachment of the email. Investigation showed pyResolvedValue was not passed to D_pzEntityPropertyMap from pyEntities during attachment analysis, causing the case property to take pyValue instead of pyResolvedValue. This has been resolved by adding pyResolvedValue from attachment analysis to D_pzEntityPropertyMap.	Conversational Channels
INC-249647	775268	Text analyzer identifies buzzword in subject line when email is blank	Text analyzer was not identifying a confirmation buzzword, causing an incorrect case type to be created. This occurred when a system-generated email had a blank body and no HTML content, and was traced to entity detection not running on the subject line. To resolve this, the pyTreatIncomingText activity has been updated to handle this usecase.	Conversational Channels
INC-256756	786278	Corrected case ID increment incorrectly extracted from email subject	An email with a subject that contained several capital letters + "-" + several numbers (ex : HEQUET-399014365) created the case ET-399014365 with no information inside except a label for the case equal to the subject of the email. This was traced to the increment of the Work-Channel-Triage-Email object being incorrectly extracted from email subjects: ET- or M- with an ID specified in a subject line is valid only when surrounded by space or brackets like {, <. This has been resolved by updating the regex in pzGetIncomingMailContext.	Conversational Channels
INC-257499	786351	Updated datetime handling for forward/reply emails	Forwarding and replying to emails was unexpectedly slow. This was traced to an issue with the pxCreateDateTime format in the pyPostEmailContent and pyEmailMessageDetails sections which was causing an exception, and has been resolved by using a universally valid datetime format for the new message.	Conversational Channels
INC-258223	782614	Terminated conversations properly closed	Conversations ended at the customer side were being re-queued instead of terminated. Investigation traced this to a configured escalate command for a no-match. When the conversation was ended by the end user, it was evaluated as a no-match scenario and the chat was escalated again with a trigger of the pzProcessCommand activity because the defaultProcessingMode method was called twice. This was different behavior from the standard scenario where that activity execution was skipped. To resolve this, an update has been made to the process handling after the SessionEnd event.	Conversational Channels
INC-261573	786624	Checks added to resolve "Index out of range" for incoming DSN email	An "Index out of range" issue was seen when a DSN email was processed for deployment notifications. This was caused by pzGetIncomingMailContext assuming that pyInReplyTo is always present and has a value that contains "@" when the DSN email ReplyTo is blank. This has been resolved by adding a null check to the ReplyTo check on the InboundEmail page and checking for "@" in messageid.	Conversational Channels

8.7.5 Patch Resolved Issues

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INC-199076	780844	Revalidate of class rules successful after major version skimming	When performing a major ruleset version skim and revalidating all rules, most class rules were failing during the revalidation. This was a gap in how Ruleset List and Major Version Skim work together. When calling getRuleSetPrerequisites("rulesetA:01-01-01"), the API uses the current application context to return a ruleset list from an application which owns rulesetA and its compatible version, but if no owning application was found from the current application context, a list of rulesetA and PegaRULES:XX-XX-XX was returned. This caused a conflict between what the system was trying to validate and the ruleset versions returned. To resolve this, an update has been made which will exclude the version number for this comparison if no owning application is found.	Data Integration
INC-215299	746194	Third-party libraries updated	Cross-site scripting protections have been added for Rhino. In addition, jna-platform and kotlin have been updated to the latest library versions.	Data Integration
INC-222857	743251	Resolved null pointer error for OpenAPI import	A null pointer exception was generated when attempting to import OpenAPI specification to integrate with the REST API to generate and map request and response for all REST service methods. This has been resolved by adding a null check to propsMap which gets properties from Schema in OpenAPIReaderImpl class.	Data Integration
INC-226843	778720	Updated clearance of stale passivated search data	After performing a search, expanding one of the search results in the work table, and then passivating the session, reactivating the session later and performing a new search populated the table with new results as expected, but expanding an item showed the previously expanded search result instead of the new one. This was caused by stale data holding a page with the name which was passivated but not yet activated, and has been resolved by explicitly removing the passivated page from the mPassivatedPages set.	Data Integration
INC-229921	738630	Corrected duplicate repository delete request	The delete request to remove a document from the repository was duplicated. This was caused by the 'pzDeleteFromRepository' activity instantiating the D_pxDelete in its own thread and then again in the current thread due to the D_pxdelete data page being loaded asynchronously, and has been resolved by making the calling activity synchronous when loading the data page.	Data Integration
INC-230648	777805	Diagnostic logging added for preprocessing deferred operations	In order to assist with identifying potentially corrupted underlying properties triggering a runtime exception when performing a transfer from the worklist to the work queue, additional diagnostic loggers have been added to DirectStreamEncoderV7.java.	Data Integration
INC-232467	767038	DSS added to control access to lower versions of Rule-Utility-Functions	Some functions which belong to a different application were accessible in activities and started giving an error after deployments to other environments. To address this, the DSS RuffilterByRulesetVersion has been added. The default is 'false' to maintain the current behavior of allowing access; setting it to 'true' will restrict access to Rule-Utility-Functions present in lower major version rulesets. When the value is changed from false to true a server restart is required.	Data Integration
INC-233492	745280	Table Filtering and Sorting was not working when using the pyNextGenPostGridUpdate activity. This was traced to the setting of implicit parameters when postActivity is being used, and has been resolved by checking the freshness of a queryable data page with reload once per interaction	Table Filtering and Sorting was not working when using the pyNextGenPostGridUpdate activity. This was traced to the setting of implicit parameters when postActivity is being used, and has been resolved by checking the freshness of a queryable data page with reload once per interaction	Data Integration
INC-235144	755880	UrgencyWorkClass correctly set	pxUrgencyWorkClass should be set as 10 by default, but it was intermittently failing to be set and impacting the Get Next Assignment functionality. Analysis traced this to blank properties being created during the declare expression execution if the source property was not available on the page. This has been resolved by updating ScalarValueQueryExecutor.java so that the system will not create leaf (Scalar) properties if they are not present on the step page while executing the declare expression.	Data Integration
INC-235155	746964	Declare trigger correctly triggered by Deployment Manager	After configuring a declare trigger to run on a committed save of a rule, the declare trigger was not activated as expected when the rule was deployed to higher environments through Deployment Manager. The trigger worked as expected when the rule was manually imported through Configure > Application > Distribution > Import. Investigation showed that when the data transform was saved, the declarative trigger was called but was not able to find the activity due to this use case running the declare trigger activity as "In Background On Copy". This created a child requestor to trigger the activity in the default access group instead of the application context. To resolve this, an update has been made which will execute the declare trigger activity in the current user context when the activity is configured as "In Background on Copy" and the "pzUseCurrentAccessGroupForChild" property is true in the parameter page.	Data Integration
INC-235501	782192	Additional debug logging added	Continuous org.postgresql.util.PSQLException messages indicating "duplicate key value violates unique constraint "pr_sys_locks_pk"" were generated when running job scheduler. This has been addressed by adding debug logs to all related classes for org.postgresql.util.PSQLException.	Data Integration

8.7.5 Patch Resolved Issues

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INC-236049	766904	invokeXMLParseRule updated to ensure activityParamPage correctly initialized	After update, a "java.lang.ClassCastException: java.lang.String incompatible with com.pegasystems.pegarules.pub.runtime.ParameterPage" error resulted when calling a connect java rule to fetch data and store it in a data page which was then invoked from another activity called from a flow. Resubmitting the same flow without changing anything worked as expected without error. The issue only occurred when using the Apply-Parse-XML step with a blank ElementName parameter, and was traced to an issue with the parse rule code flow logic where the activityParamPage param was not initialized correctly in every code path. This caused the error when the value had already been set to an incompatible type. To resolve this, the common code for the two invokeXMLParseRule methods has been merged to ensure both add activityParamPage to the paramPage.	Data Integration
INC-237985	775554	Suppressed unnecessary SOAP exception	SOAP service invocations were intermittently failing with the message "Content-Type HTTP header is missing". The Content-Type header is only used as a means to determine the SOAP service method name, which can also be derived from the endpoint URL or the SOAP body. To address this, the SOAPService code has been modified to suppress the exception that was being thrown when there was neither a SOAPAction or Content-Type HTTP header value. If actionToken is missing, the action can be taken from the HTTP body. The system will still generate an exception later if it cannot derive the SOAP method name from other parts of the request.	Data Integration
INC-238681	762330	Enhancement to support Non-standard resolution status	Previously, Case Archival only supported resolution statuses that started with 'Resolved-' (with Camel case) and not with any other resolution status like resolved- or RESOLVED- or 'Resolved *'. An enhancement has been added which allows specifying a comma-separated list of viable pyStatusWork prefixes for archiving which will handle custom statuses.	Data Integration
INC-239789	766752	LRUMap removed to resolve listener null pointer error	The email listener was running but not picking up and processing the records even there were few unread mails in the inbox. The "Last access" was updated periodically as if the listener was monitoring the inbox even though emails remained unprocessed. This was traced to a null pointer exception when retrieving the fresh access token, and was caused by the MSGraphEmailClientProxy class where LRUMap was being used with max size of 50 in a synchronized way. The max limit of the map was exceeded, causing deletion of entries (auth profile name with an object for locking) which led to a null pointer error being thrown while synchronizing on a null object. This has been resolved by removing LRU Map as its hard limit caused an error, and by adding handling that will put the listener to sleep when encountering unknown exceptions.	Data Integration
INC-239993 INC-240101	769232 769229	Corrected From address value when using MSGraph	When viewing an email attachment pop up in MSGraph, the From address was not displayed correctly. This was traced to an incorrect value of the pyFrom parameter due to the principal name value in the email account rule being configured with application settings, and has been resolved.	Data Integration
INC-240298	766839	Corrected harness refresh in Ajax container	Harness refresh was not working in Ajax container tabs. Investigation showed "main" was undefined due to the system not creating the form element when there was only one fieldset in the container, and this has been resolved by updating the submitWhenFail method in pzpega_ui_doc_submit.	Data Integration
INC-240696	762672	Parent and child case namespace collision resolved for archiving	If parent and child cases had overlapping names, the cases were not being archived. This was due to Archival using declarative indexes to determine if a case has been added to pr_metadata during the archival process. In this scenario, multiple layers of the case hierarchy had the same name on their declarative index. When the archival job attempted to add a case in the hierarchy to pr_metadata, there was a namespace collision on the indexes and the engine determined that the hierarchy item was already added. Later, during archiving proper, all cases in the hierarchy were not present in metadata, so the item failed. This has been resolved.	Data Integration
INC-240745	754796	Currency code added for Sierra Leone	Support has been added for the new Sierra Leone currency code, SLE.	Data Integration
INC-241055	759633	Reset flag to resolve delegated rules issue	After editing delegated data type and the closing screen, favorite rules were not opening properly and the UI was not displayed correctly. Investigation showed that when editing a delegation data type row, clicking on the close button of the window without saving or cancelling or clicking anywhere in the screen caused the flag D_DelegationConfig.pyIsFromManageChangeLP to not reset to false, impacting the other rules when opened directly. This has been resolved by adding an update to reset the above flag to false when the close icon is used in this scenario.	Data Integration
INC-241275	754585	Records Editor search icon made accessible	To improve accessibility, helper text has been added for the search icon in the Records Editor with the message "Click to search records."	Data Integration
INC-242943	756573	Handling added for missing MSGraph charset	Some emails were not processed by the email bot when using MSGraph. This was traced to the HTML meta content missing the necessary charset, leading to an exception. While there is a workaround of using IMAP, this has been resolved by adding handling that will fall back to using the default charset UTF-8 if the system is unable to derive charset from the HTML meta tag.	Data Integration
INC-243285	761202	Handling added for MSGraph extracting attachments in a signed email	When using MSGraph with the email listener, the attachments could not be stored in Pega if the email included a digital certificate. This has been resolved by adding handling to ensure attachments are properly extracted when the listener reads a signed email.	Data Integration

8.7.5 Patch Resolved Issues

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INC-243285	764831	Logic updated to handle digital certificates in MSGraph	When using MSGraph, attachments were not being stored if they contained a digital certificate. This was traced to the system failing to extract attachments from email with mimetype application/pkcs7-mime, and has been resolved by updating the logic to handle application/x-pkcs7-mime or application/pkcs7-mime attachments.	Data Integration
INC-243566	763259	Explicit close stream added to InvokeAxis2	An "Unreleased Resource: Streams" issue was seen in the InvokeAxis2 activity. This has been resolved by explicitly closing the input stream at the end of step 17 in InvokeAxis2.	Data Integration
INC-244872	764101	MSGraph REST API support	Support has been added for the MSGraph REST API client to send attachments which are greater than 3MB.	Data Integration
INC-244979	770953	Able to access attachments for purged cases	Attempting to access an attachment in a repository for a case which was archived and purged resulted in a GetAttachmentReference activity error. This has been resolved by updating the pzDownloadArchivedFile activity.	Data Integration
INC-245088	765263	Corrected execution calculation for CleanupServiceMonitorInstances agent	When using the pzCleanupServiceMonitorInstances agent to delete the service invocation history records which are older than the specified value in DSS-service/MonitorInstanceTTLmins (in mins), setting a value greater than 35791 minutes caused the time to be miscalculated. This has been resolved by updating the data type from int to long.	Data Integration
INC-245096	762171	Authentication handling updated for SOAP using OAuth2	SOAP Connectors with OAuth2 authentication configured were incorrectly attempting traditional authentication in the Axis2 library. The error "IllegalArgumentException: Username may not be null" appeared. This was traced to a flag that was not being set correctly in the OAuth2 case, and this has been resolved by adding the "auth=null" flag to the OAuth2 case in step 8 of InvokeAxis2 to prevent the client from attempting basic authentication when the SOAP Connector is using an OAuth2 auth profile.	Data Integration
INC-246705	768586	Support added for custom CORS endpoints	The URLs of custom REST services were not showing when setting the endpoint for CORS policy mapping. This has been resolved by adding the necessary property set to the pzGetAllRestServices Activity.	Data Integration
INC-247166	766057	Export allows comma separated filter values	Delegated table records were not exporting when there was more than one filter value in the search box. This has been resolved by removing the replace function to enable exporting the record from data type with comma separated fields.	Data Integration
INC-247173 INC-243325	766513 766516	Atmosphere jar updated to resolve screen pop failure	The PegaCall application was receiving screen pop requests from the telephony systems, but there was an intermittent issue with generating a screen pop to the user. No error was generated. This was traced to a null pointer exception related to Atmosphere which was removing the necessary resource for the screen pops from being delivered, and has been resolved by upgrading the atmosphere jar version.	Data Integration
INC-248011 INC-246686	772042 775911	DSS added to skip corrupted BLOB property	It was not possible to open the records if a BLOB contained a corrupted property. To address this, DSS settings have been added which will allow conditional bypassing of a corrupted property during BLOB deserialization. a. Dynamic System Settings short description : propertiesToIgnoreDuringBlobDeserialization Owning ruleset : Pega-Engine Setting purpose : propertiesToIgnoreDuringBlobDeserialization Value : Corrupted property name b. Dynamic System Settings short description : dumpBlobOnDeserializationException Owning ruleset : Pega-Engine Setting purpose : dumpBlobOnDeserializationException Value : true Restart required.	Data Integration
INC-248681	774814	Correspondence circumstance evaluated incorrectly	When using a circumstanced correspondence template, the base version was retrieved when creating the emails. After re-saving the circumstance definition used for the correspondence template, the correct correspondence template was selected during the email generation. This was traced to the circumstanced definition being filtered during the application calculation, and has been resolved.	Data Integration
INC-249800	768001	Exception handling updated for PRPulseTRREQProcessor	When the PRPulseTRREQProcessor.prprocessMessage method is run, the node.handleTerminateRequestorRequest can throw a com.pegarules.pub.context.StaleRequestorError exception. StaleRequestor handling has now been added to PRPulseTRREQProcessor in order to ensure the System Pulse thread which dispatches pulse messages continues to function properly.	Data Integration
INC-249832	768721	Changed log level to debug for withdrawn rule	Logs were filling with the error "Failed to find a 'RULE-DECLARE-EXPRESSIONS' with the name 'PYLABEL'". This was due to the rule being searched in child class where it was not present and in its parent class where it's withdrawn. To resolve this, the logger level has been changed from error to debug in VirtualTableCandidateRuleResolverImpl.java.	Data Integration
INC-250238	771299	Empty value check added to correct Guardrail warning	The pxAddWarningsForGRSField activity was throwing a severe guardrail warning whenever the field value in Authentication profile, Endpoint url and Response timeout in Connect SOAP rule did not start with "=". This was due to a missing check for an empty value before validating and adding Guardrail warnings, and has been resolved.	Data Integration

8.7.5 Patch Resolved Issues

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INC-252186	772087	String.FormatMessage() also searches class name	Previously, the @String.FormatMessage() rule only searched message rules in the @baseClass. This has been expanded with the addition of code to retrieve the message class name from the message key in MessageEvaluator#getLocalizedText(). If the message key has a class name, then the @String.FormatMessage() function will return the expected message.	Data Integration
INC-252455 INC-250963 INC-228124	768792 769486 771911	File Listeners correctly process files from external S3	File listeners were not correctly processing files from S3 storage. This was traced to a null pointer exception in the S3Factory.getTimer method, and has been resolved.	Data Integration
INC-252652	770556	CompareTwoValues Rule-Utility-Function refactored for performance	Slowness during PegaMKTContainer API calls was traced to the CompareTwoValues Rule-Utility-Function comparing all different data types, starting with a Date and Timestamp comparison that consumed excessive CPU cycles. To resolve this, CompareTwoValues has been refactored to improve efficiency and performance.	Data Integration
INC-252658	777586	Localization added for en_MO	Support has been added for the Asia/Macau (en_MO) locale.	Data Integration
INC-254329	774882	Archival indexer performance improvements	The indexer job in archiving and purging was taking an excessive amount of time when maxIndexerRequestors=1. This delay was traced to forward chaining being enabled, and has been resolved by disabling forward and backward chaining for the archival and search indexer to improve performance. Chaining isn't needed since there are no changes made to the case.	Data Integration
INC-254760	778694	Handling updated for Europe/Amsterdam calculated date time	When using the getAsBusinessTime() function with the timezone set to Europe/Amsterdam, the calculated date time was returned as 20221230T080000.000 GMT+01:00, but setting this value in a DateTime property did not include the +01:00 at the end of the string and the property value became 20221230T080000.000 GMT, which was incorrect. This was traced to the parseInternalDateTime function ignoring the offset value for backward compatibility, and has been resolved by adding the Europe/Amsterdam timezone to the en_US and nl_NL locales to generate timezone codes without offset values.	Data Integration
INC-255906 INC-257221	778554 780057	Archival process made more resilient	The PegaPurger was failing with the error "NullPointerException / Unable to Execute the activity for purging". This was traced to an ArrayList which wasn't thread safe, and has been resolved by using a SynchronizedList to avoid null pointer. Additional improvements have also been added to the archival process to make it smoother and more resilient.	Data Integration
INC-256360	781536	Services PAL properly displayed	Despite configuring the settings for Services PAL, the Services PAL log was not populating any data when navigating to the log file. This issue was traced to the logic in StatisticsLogHelper and has been resolved by extracting the logic into helper functions and adding an explicit check for PALType Average.	Data Integration
INC-257572	781878	LoggerContext initialization updated	SoapAppenderPega was failing to initialize or was stopping unexpectedly. This was traced to a null pointer exception and has been resolved by updating the LoggerContext initialization to check whether it has been initialized with class loader by default, and if not it will initialize LoggerContext again with class loader.	Data Integration
INC-257632	781171	Expunger updated to handle on-premise	When running Pega Infinity on-premise the error "Issue retrieving reference file://pegacloudfilestorage:/archive/archivedclasses/Pega-DM-Simulation-Bias" was generated by the internal.RepositoryManagerImpl function. This was caused by pyPegaExpunger running pzPerformExpunge by default despite there not being a cloud storage component designated. This has been resolved by updating Expunger for on-premise scenarios.	Data Integration
SR-D13375	775330	Added handling for null requestor returned to ManagementDaemon	An invalid parameter exception was raised by the ManagementDaemon executing checkRequestors method. This occurred when the requestor argument, retrieved by the ManagementDaemon, was attempting to determine whether a PEGA0019 alert should be emitted in case of a long running requestor, but the NodeRequestorMgt.getRequestorNames() implementation returned non-existing application requestors. This has been resolved by adding handling for InvalidParameterException in cases where the requestor is deleted before the job is executed on it.	Data Integration
INC-230776	757398	Rule-File-Binary update propagates correctly	The Model update was not reflecting from the Prediction Build. Investigation showed the Rule-File-Binary update was not reflecting across nodes. This has been resolved by adding a validate on the binary file to refresh the binary file cache across nodes.	Decision Management
INC-231269	750996	Support added for switching between KCL library and native Stream SDK	Kafka-As-a-Service has replaced Stream service. In order to support connecting and talking to Kafka-As-a-Service to provide "Stream" capabilities, an enhancement has been added to support switching between using the KCL library or native Stream SDK using a DSS/PRConfig using the following properties and values: <pre><!-- Mandatory> <env name="services/stream/provider" value="KafkaService"/> <env name="services/stream/name/pattern" value="{isolation-id}>{stream.name}"/> <env name="dsm/services/stream/clustername" value="{cluster-name}"/> <!-- Not mandatory <env name="services/stream/external/replication/factor" value="{replication factor}"/></pre>	Decision Management

8.7.5 Patch Resolved Issues

Ticket #	Issue #	Title	Description	Product Area
INC-231930	770175	FetchResponseConfiguration performance improvement	Performance issues were seen when running a batch campaign using NBAD with all issues, all groups. This was traced to the system browsing the pxDR dataset twice during the triggerNextStageprocessing dataflow internally, and has been resolved with an update to read in-memory data instead of making a database call.	Decision Management
INC-235060	757834	ADM Factory migration process made configurable	In order to address an issue with data migration pipeline timeouts when processing large models, the controls of the ADM Factory migration process have been exposed through a set of dynamic system settings. The settings introduced are: "decision/adm/service/factoryPersistTimeoutSeconds": Timeout in seconds when saving updated model factory and related artifacts to the underlying persistency layers. "decision/adm/service/migration/dataFlowService": Specifies the data flow service on which the ADM Factory migration will be executed, by default the DataFlow.Batch service is used. "decision/adm/service/migration/maxFailures": Specifies the max number of failures tolerated during the ADM Factory migration, by default this is zero and the migration will fail on any model that fails to migrate. "decision/adm/service/migration/requestorCount": Specifies the number of requestors (i.e. threads) that the ADM Factory migration data flow will use, by default the default configured on the data flow service is used. All settings can be configured through a dynamic system setting on the owning ruleset as "Pega-DecisionEngine", or through a prconfig setting.	Decision Management
INC-235496	766560	When rule added to control attachment thumbnail generation	In some circumstances an unauthorized user may be able to view the thumbnail generated for an uploaded attachment. To address this, the when rule pycangeneratedocumentthumbnail has been added which can be used to prevent thumbnail generation. The default value is true, which will allow thumbnail generation.	Decision Management
INC-236293	742115	Predictions Rules update in Revision Management	Prediction Rules updates were not manifested as expected for runtime use. This was due to prediction not being fully supported in revision management, and has been resolved with an update which will save a substrategy along with the main strategy in the Revision Manager context.	Decision Management
INC-237215	761469	Updated handling to avoid copy alert	An alert was generated from VirtualListCopy with the message "Light weight list has been copied in rule 'CODE-PEGA-LIST PZGETREFERENCEDDOCUMENTS". This has been resolved by passing the primary page to the report definition instead of the named page to avoid copying results.	Decision Management
INC-239342	758667	Partitioning keys added to Snapshots to improve performance	When using a data flow that reads from PR_DATA_DM_ADMMART_PRED table using a database table dataset and writes the results to a file repository, the ADM Predictor Dataset export within the dataflow was taking too long to browse the table. Investigation showed the dataset "pzADMPredictorSnapshots" did not have a partition key, causing the data flow to execute in a single thread. To resolve this, partitioning keys have been added. pyModelSnapshots and pzModelSnapshots contains the .pzInsKey as the partitioning key. pyADMPredictorSnapshots and pzADMPredictorSnapshots contains the .pyModelID as the partitioning key.	Decision Management
INC-244249	762752	Improved backwards compatibility for Model and Topic	After update, testing Model and Topic with an associated data decision rule was throwing an error. This was traced to refactoring work on a Natural Language Processing (NLP) function that generated an illegal argument exception when given a "-" in the key passed to the ParameterPage.put(String key, String value) method. In this case, the identifier of the decision data contained a hyphen. In order to improve backwards compatibility, the logic has been updated to use a HashMap and then set this map in the parameterPage with key as the constant "modelDetails". This ensures the model identifier will be set in the map and the parameterPage key will not have characters such as hyphen, etc.	Decision Management
INC-245335	760102	Migration of adaptive model and prediction monitoring data made optional	In order to allow greater control of the Data Migration pipeline from Production to Simulation, granular controls have been added to toggle the data migration for adaptive model and prediction monitoring data such that the ADM factory is always migrated, but the monitoring data can be opted-in or out. This has been implemented through the use of "when" rules to make the ADM and Predictor datamart export and import optional.	Decision Management
INC-245356	758425	Apache Cassandra updated	The Cassandra jar has been updated to 3.11.12.	Decision Management
INC-245472	764508	Bkp decision data correctly removed before revision deployment	While completing/packaging a revision, some of the decision data backup rules were merged into the locked overlay ruleset instead of being deleted from the branch ruleset. This has been resolved by updating the activity to be case insensitive to handle both "bcp" and "Bkp" naming in the cleanup.	Decision Management
INC-245799	764373	Updated action rule validation check	Check-in of the action rule was failing due to the wrong configuration of the eligibility criteria. This was caused by private checkouts intermittently not being released correctly if validation failed during rule check-in. This was a missed use case, and has been resolved by correcting the validation of action rules during CR submit.	Decision Management

8.7.5 Patch Resolved Issues

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INC-246780	761799	Special characters removed from Interaction History to prevent exceptions	Production utility nodes were requiring restarts due to out of memory errors. Investigation traced this to Interaction History dataset records containing unexpected special characters in the key such as """ or "\$" or "^" that generated exceptions when writing the records to the HDS. This has been resolved by removing the special characters from the keys while writing them to the HDS.	Decision Management
INC-247310	781808	Handling updated for resuming HandleResponses data flow	After an accidental restart of the pxHandleResponses data flow, the events already waiting in the window were held waiting for the complete duration configured in the response timeout. To help in processing the future conversion responses faster, pxHandleResponses has been updated to calculate the delta time between decision time and response waiting time and subtract the response wait time to create the queue.	Decision Management
INC-247517	764154	Corrected dirty pop up message incorrectly displayed	The dirty dialogue was being thrown upon commenting on a Pulse post, even when there were no unsaved change in the form. Investigation showed the method "pega.u.d.clearDirtyState" was not being called when posting a comment in the Pulse, only when making a post. This was a missed use case, and has been resolved by adding the clearDirtyState function after posting a reply.	Decision Management
INC-247763	769868	Security updated for input text	Sanity checks have been added for spaces, documents and cases to improve security.	Decision Management
INC-248187	769421	Manifest file input stream properly closed	An S3 connection pool time-out error was traced to getManifestPage method input streams being opened and not consistently properly closed. This has been corrected.	Decision Management
INC-248221	767223	Distribution simulation results cleaned up on resolution	Simulation results were not cleaned up from the database table-type output destination when a simulation was withdrawn/resolved. Over time, using the same output destination for simulations led to a large number of records in the database table and subsequent reports run on that table were timing out. To resolve this, a new activity has been added to truncate simulation results on case resolution. The pxCleanupSimulationResults API used for one-time clean up of results for resolved simulations can also be used to clean up older runs.	Decision Management
INC-249244	764243	Prompt class value correctly propagated to ConditionBuilder page	When opening the expression builder from source (right) expression field in the Data Join property panel, the wrong page context was used by the expression builder. This was due to previous work which changed the promptclass parameter such that the primary class used by the Expression Builder is now the primary class of the strategy instead of the appliesToClass of the component or page selected in the data join component. To resolve this, a data transform has been added to propagate the prompt class value from the Component page to the ConditionBuilder page.	Decision Management
INC-250008	767819	Updated exception handling for empty partition key	No results were shown after a dataflow run, and a DdsBatchOperationException was logged at the compose shape in the dataflow. This was traced to the DDS DataSet returning empty results instead of throwing an exception when given an empty partition key, and has been resolved.	Decision Management
INC-250735	768131	Corrected logic for Value Finder simulation	The Value Finder simulation showed all customers as well-served when the strategy did not produce any results. This was traced to a logic error in the pagelist pyChartData which caused the pyCount to be set to the total audience population for the simulation, and has been resolved.	Decision Management
INC-251504 INC-256560	780365 778023	Resolved memory issues related to ADMSnapshot agent	Production utility nodes were terminating due to out of memory errors. This was traced to the RULE-OBJ-ACTIVITY DATA-DM-SUMMARY PYSAVEWEEKLYANDMONTHLYSNAPSHOTS activity, used in execution monitoring to aggregate weekly and monthly data. Investigation showed the merge operation of a numeric summary for each predictor was added to the list, increasing the size. When this was serialized into JSON and de-serialized again, it occupied a lot of heap memory for each predictor which then affected the utility nodes' heap memory. To resolve this, a compress call has been added to summaries post-merge for daily, weekly, and monthly snapshots.	Decision Management
INC-252956	778802	NBA_TopLevel Strategy Proposition Filters updated for optimization	The expression parsers for EmailTreatmentEligibilityRule and MobileTreatmentEligibilityRule have been updated to handle multiple ORs, allowing them to be optimized.	Decision Management
INC-253154	785403	Time to live works for embedded pages in Cassandra	When the Time To Live (TTL) value was applied via a property instead of being hardcoded, the embedded pages were not deleted after the TTL expired. This has been resolved by updating the decision data set save operation to allow accessing parent page properties in order to read the TTL value.	Decision Management
INC-253588	775761	Security updated for Pulse text	Sanity checks have been added for Pulse text to improve security.	Decision Management
INC-254267	778503	Updated failure handling for CallVirusCheck	A case was not able to proceed after enabling call virus check for attachments. Investigation showed that after getting the error message from the attachment gadget, the failure operation was performing a deferred save and throwing an error. This was a missed use case, and has been resolved by adding a rollback step when the pzmanagecontentpostprocessing activity fails.	Decision Management
INC-254828 INC-252654	777289 778146	Warning logging updated for Avro schema	After creating a dataset with the Avro schema, the Kafka save operation created extremely large log files which led to system performance issues. This was traced to warning messages generated for non-mandatory fields, and has been resolved by discontinuing logging exceptions on null values for Avro schema.	Decision Management

8.7.5 Patch Resolved Issues

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INC-257173	780568	Performance improvements for pr_data_admin_ddds_table queries	Increased traffic on the pr_data_admin_ddds_table was caused by PrpcSchemaRepository being called too often and in turn executing 'select pzPVStream , pxCommitDateTime from pegadata.pr_data_admin_ddds_table'. This created pressure on the database and has been resolved by updating the version of DDS SDK to 0.11.4 to disable scheduled integrity tracking, along with implementing cache for single tables in prpcSchemaRepository.	Decision Management
INC-232907	776588	Added handling for service-HTTP locking error	Operator via service HTTP was unable to check-in its own checked out record, generating the error "Update record failed: .pyRuleSet: You are not the owner of this checked out rule." Investigation showed pxThread.pxSecuritySnapshot.pxPersonalRuleset changed in the middle of processing. This has been resolved.	Low-code App Development
INC-237496	766392	Corrected overlay context loss in Cosmos	Attempting to add a condition in the eligibility criteria for a Next Best Action in the Cosmos portal caused the field to refresh and remain blank. Investigation showed there was a loss of context for overlays, which has been resolved by moving the hidden layout to the last dynamic layout in the pzInnerEmbedConditions section.	Low-code App Development
INC-237925	768605	Corrected validation rule resolution after modification	A validation rule showed OR in the statement but validated at runtime as an AND condition. This happened only when the second condition was given as AND, then one more condition row was added as OR, and the second condition was deleted, and has been resolved by updating the pzBasicValidWhen section to remove the pzSwitchOperation activity call on refresh of pyCondValueCategory.	Low-code App Development
INC-239887	766718	Manual results pages will have ObjClass explicitly set	After defining multiple case types, for example CaseTypeA and CaseTypeB, as related cases for another case type such as CaseTypeC, trying to add CaseTypeA as a related case to CaseTypeC using the related case functionality generated an exception on selection of CaseTypeC in the first dropdown. This was traced to pxObjClass, which is required for Obj-Sort to function, not being set automatically due to data page / activities. This has been resolved by ensuring pxObjClass is set when creating pxResults pages manually.	Low-code App Development
INC-240679	758007	Rule resolution updated for AttachCategories API	The withdrawn rule exclusion was not working for the AttachCategories API. This has been resolved by updating the rule resolution logic in the pzGetAttachmentCategoriesImpl activity.	Low-code App Development
INC-242164	753881	Post-processing runs as expected when navigating backwards in screen flow	After creating a screen flow with the option "Perform post-processing when navigating away from step" checked for the step2 assignment with a post-processing data transform set to run, the data transform did not run when moving from step2 back to step1. This has been resolved by updating the pzJumpToStep activity to include post processing based on FAProcessOnJump.	Low-code App Development
INC-243595	761319	RecordInner updated to check Rule-RuleSet- during new component save	After opening Designer Studio -> Application -> Components and creating a new component, adding label and version and attempting to submit resulted in the message "Error- No open ruleset versions available". This has been resolved by updating pxUpdateRecordInner and pxCreateRecordInner to check for Rule-RuleSet- instead of only looking at Rule-RuleSet-Branch so that a version is not required for ruleset instances themselves.	Low-code App Development
INC-246401	779552	MaxRecords default raised to handle a large number of skins	After performing a major ruleset skimming, a warning appeared indicating that a skin was not available in the application even though it existed in a new ruleset version which was in the application rule resolution. This was traced to the "pyMaxRecords" parameter being set with a default value of 50 during query execution, and in those first 50 results, the skin rule from highest version was not available due to there being over 100 skin rule instances in different major versions in the app. To resolve this, the default has been modified to listPg.putString("pyMaxRecords", "10000"); for CheckForWarnings in Rule-Application to handle cases where there are a large number of skins.	Low-code App Development
INC-247170	767802	Removing an operator from a team correctly updates default	If a current operator was assigned to multiple teams (team 1 and team 2) with team 1 as the default, removing themselves from team 1 correctly changed their default to team 2, but if they were removed by a manager the system did not automatically pick up the new default. This has been resolved by updating the logic in .pyWorkGroupList(local.nextDefaultTeamIndex).pyRadioButtonAG.	Low-code App Development
INC-247501	762372	Resolved thread dump after saving large decision tables	After update from Pega 8.4 to Pega 8.6, saving and checking in rules for a large table was resulting in a thread dump. This has been resolved by enabling the "when" condition for step 3 in the checkForWarnings activity of Rule-Declare-DecisionTable so that testConsistency will be called only for the cell count below the given threshold value.	Low-code App Development
INC-248341	764940	Corrected Expression Builder error when opening from Decision Table	Opening any delegated decision table from the UI and then opening the Expression Builder generated a pop-up message. Clicking on "OK" closed the pop-up but a new page showing an error message was opened. A security trace showed the activity pzCreateNewTempPage did not have the necessary registration in the pzEBHiddenElement control, and this has been resolved.	Low-code App Development
INC-250133	773511	Added startingWorkHandle check to enable case unlock	Using the DXAPI to get screen definitions and submission on an assignment submission resulted in a 400 HTTP error and the message "ValidationMessage:Unable to unlock [case id#]". Investigation showed this was due to a missing reference to "startingWorkHandle". To resolve this, the performB2BAssignmentCheck activity has been updated to add a precondition to check that Param.startingWorkHandle is not null.	Low-code App Development

8.7.5 Patch Resolved Issues

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INC-250717	775089	Decision table export corrected	After update, the decision table export functionality was not working. However, if a trace was started the functionality worked without any issue. Investigation showed there was a timing issue with the removal of the iframe before actual download of the document. This has been resolved with the addition of a timeout in <code>pzRuleDeclareDecisionTableStandard.js</code> to ensure the document is downloaded.	Low-code App Development
INC-253430	774562	Resolved name conflict in Expression Builder	After update, attempting to edit an existing expression caused it to disappear from the Expression Builder in the decision tree. The error "Data Transform not found" appeared. Investigation showed there was a name conflict during resolution due to the system attempting to populate the class name instead of the expression condition. This has been resolved by updating the function names in <code>OpenRuleAdvanced_OverLabel</code> to rename functions declared in this control but called from other places with the suffix <code>"_OverLabel"</code> so the Javascript call is not overwritten with the function of the same name from other controls.	Low-code App Development
INC-263623	788021	pyWorkCover handling updated for DX API	While invoking DX API from the front end in a clone environment, <code>pyWorkCover</code> page was not present in the clipboard. Because the when rule used to determine visible condition checks properties on <code>pyWorkPage</code> and <code>pyWorkCover</code> , the when rule returned false and the dynamic layout was not visible. To resolve this, an update has been made which will read <code>pyWorkCover</code> for the <code>skipWorkLock</code> scenario in <code>acquireworkobject</code> .	Low-code App Development
INC-221348	748099	Addressed iOS mobile app memory leak	The mobile app displayed a white screen after a period of using it on iOS devices. This was traced to a memory leak related to javascript objects created in a child webview and then stored in a shared (hidden) webview which were not properly cleaned up after use. To resolve this, <code>ClientCache</code> has been refactored.	Mobile
INC-223328	736533	Mobile app push notifications history updated	The history table of mobile push notifications remained empty after sending a push notification if the history table had over 1000 records. Investigation showed push notifications are taken in <code>inpxGetPushHistory</code> using <code>Obj-Browse</code> and then filtered in Java step by <code>appId</code> so the oldest push notifications were listed first, and the list of instances did not show the pagination even though it existed. To resolve this issue, the sorting in push optimization has been modified.	Mobile
INC-238299	752475	Server response filtering updated	To improve security, additional filtering has been added to the server response.	Mobile
INC-241629	759396	Visibility locking updated for mobile attachments	Attachments added in mobile were not visible in the desktop. This was traced to the <code>@isPageLocked(tools, workPage)</code> not working as expected in the <code>SaveAttachment</code> activity of the standard "Attach Content" control for mobile, and has been resolved by replacing <code>@isPageLocked</code> with <code>Database.IsLocked(workPage.pzInsKey)</code> in the <code>SaveAttachment</code> activity which checks the lock on the work item ID.	Mobile
INC-244702	770310	Corrected Assign Mismatch error on Mobile	After a new comment was added to a work object on Mobile, the assignment status was set to "ERROR: ASSIGN MISMATCH" and it was not possible to perform any action or advance any further. This was traced to a security issue related to the <code>Assign-acquireworkobject</code> activity, and has been resolved.	Mobile
INC-245285	758380	Documentation updated for mobile launch screen icon requirements	The launch screen logo in the interface channel for android devices was not rendered correctly after generating the application. The same logo was in good condition on iOS. Android recently updated the requirements for splash icons, masking 1/3 of the diameter so the actual dimensions are not relevant as long as it produces a clear image for different resolutions. To assist with meeting these requirements, the documentation for customizing icons on the launch screen of mobile app has been updated to clarify logo sizes and restrictions.	Mobile
INC-247240	763797	Value updated for Development/Sandbox APS certificates	Apple has changed the value of the Common Name (CN) attribute for Development/Sandbox APS certificates. Support has been added for this new format in the <code>pzOnCertificateChange</code> activity.	Mobile
INC-255687	778664	Push notifications supported on iOS with proxies	The mobile app was not receiving push notification on iOS devices if proxies were used. This has been resolved by adding proxy configuration support to <code>Pushy APNS</code> .	Mobile
INC-197795	702810	Autocomplete control documentation update	The documentation for configuring an Autocomplete control has been updated to clarify that parametrized data pages and large data pages are not supported in data transforms when they are used in offline-enabled case types.	Project Delivery
INC-229116	742053	Transport Layer Security (TLS) documentation updated to clarify additional steps after update	In some cases, customer search failed to work after updating from Pega Platform version 8.4.6 or earlier to version 8.7.2 or higher. In Pega Platform version 8.7.2 or higher, Rest Connect causes this issue when the lowest allowable SSL/TLS version is set to TLS version 1.0. To address this, the Transport Layer Security (TLS) best practices documentation has been updated to clarify that the rule form for outbound connections must be edited to use the appropriate protocol supported by your Pega application's underlying Java version, preferably TLS 1.2 if the server supports that version.	Project Delivery

8.7.5 Patch Resolved Issues

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INC-242183	757211	Mask property visibility documentation updated	The documentation for mask property visibility for users has been updated to clarify that when masking an embedded property, the ABAC property read policy must be configured in the work class where the embedded property is being referred and not in the class where the leaf property exists. If configured improperly, the application can display the masked property to unauthorized users. For example, if using an embedded property called WorkPage.Customer.Name, the ABAC property read policy must be configured on the WorkPage class and then the embedded property is added in the masked properties list instead of the class where the leaf property Name is defined.	Project Delivery
INC-211590	711019	Auto-complete and calendar popover alignment corrected	An issue with the container alignment of the auto-complete and calendar dropdown popovers has been resolved by removing styling in the pyReportEditorStyling .css which was causing the issue.	Reporting
INC-232228	739168	Focus correctly set on clickable links	Focus was not being correctly set on the clickable links when viewing the reports on filter by section and using keyboard navigation. This has been resolved by adding the necessary CSS in pyReportEditorStyling.	Reporting
INC-232425	739163	Focus correctly set on Calculation Builder button	Clicking on edit filters in the reports and using the keyboard to navigate was not correctly setting focus on the calculation builder icon. This has been resolved by adding the necessary CSS in pyReportEditorStyling.	Reporting
INC-235968	744323	Documentation updated for includeEmbeddedPropertiesInCSP DSS	The documentation for enabling the indexing of embedded properties has been updated to include details for configuring the DSS "indexer/srs/includeEmbeddedPropertiesInCSP". This is used to ensure all embedded properties from CSP are analyzed so there is no need to create a separate CSP instance for any of them.	Reporting
INC-240381	757216	Export to Excel works with filtered date/time columns	Filtering the date/time columns and exporting to Excel generated an error. This was traced to a parsing issue with the date/time which caused it to not match any of the predefined patterns, and has been resolved by modifying the DataExplorerExportHandler to parse the dates correctly.	Reporting
INC-242955	757161	Dev Studio search updated	Search in Dev Studio was not working as expected after update. To resolve this, search has been updated to accept a regex expression containing two hyphens for work ID pattern check.	Reporting
INC-243057	756919	Resolved warning for ChartControl	Using pxChartControl resulted in an ERR_CONNECTION_REFUSED warning in the browser console. This was caused by an improperly commented line for a localhost URL in the third-party code fusioncharts.js. While there is a workaround of locally editing the file to correct the commenting, this has been resolved.	Reporting
INC-243194	757570	Removed unnecessary sort to improve performance	Indexing a class was taking an excessive amount of time for collections of over 80M records. This was due to the indexer fetching all instances of pzlnsKey, and performance has been improved with an update which will skip sorting by pzlnsKey as the system will fetch all keys and sorting is not needed.	Reporting
INC-243848	757681	DSS added to control embedded page depth while indexing	The Full Text Search incremental indexing queue processor was taking an excessive amount of time to run, interfering with node health. This was traced to recursive calls for processing pages while indexing embedded pages, leading to stack overflow exceptions. This has been resolved by introducing a DSS to limit embedded page depth while indexing the work object.	Reporting
INC-250412	777459	Corrected Report Viewer error	After update, the Report Viewer tab had a difference in the Group Results options of a new report definition and the error "pyReportDefinition: "pxRequiredSkill" This property does not exist or has no column mapping" was generated. This occurred when Filter Caption Settings was set to "Apply Caption to Left Side of the condition", and was traced to the "strFieldName" value in RRFilters_Logic being overridden. To resolve this, a new variable has been added to the RRFilters_Logic control to preserve the value.	Reporting
INC-251114	780105	Corrected DateTime report filtering	The DateTime filter was not working for a report on the user portal. Investigation showed there was a case mismatch which caused the datatype to not satisfy the filter conditions for pzpopulatesselectedvalues. This has been resolved by setting the filter value to Range.	Reporting
INC-252882	773407	Handling added for maintaining count during BIX extraction	The number of records in the XML BIX extract did not match with the pxTotalClassInstanceCount of the Manifest file. This issue occurs only when there are any updates during the extraction process, and has been resolved with an update which will show the actual processed records count in BIX extraction Manifest file.	Reporting
INC-253918	774392	View history export updated for BAC	A 403 error was generated when trying to click Export to Excel in view history. Investigation traced this to the Export to Excel activity not being registered with basic access control, and this has been resolved by modifying the URL formation to pass the necessary parameters to register the activity in the menu harness.	Reporting
INC-254593	777249	DSS added to control date identification on BIX file	After upgrade, custom application behavior was not working as expected due to BIX file names having YYMMDD appended to the extraction name, for example Work_ExtractCase_00To04_1.zip under the previous version and Work_ExtractCase_00To04_221214_1.zip under the upgraded version. This date appendix was previously added to ensure the file name generated should be unique. To address this, the removal of the date from the extracted zip file name before placing in the FTP location may be controlled through the DSS setting BIX/ignoreExtractDateInZipFileOnCloud.	Reporting

8.7.5 Patch Resolved Issues

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INC-255371	780826	Updated search handling when ForSpecifiedProperties is used	When using global search, selecting "All content" instead of "Name" caused almost all searches to return 0 results. This occurred when the "For specified properties" option was checked and dedicated data instances were used, and has been resolved with an update which will always append to the content for rule reindexing even if ForSpecifiedProperties is selected.	Reporting
INC-257867	780702	Added accessibility for grid/list toggle	The grid/list toggle on the Cosmos reports browser was missing a label for the currently selected toggle and an accessible cue as to the current state (which option is selected). This has been added.	Reporting
INC-236596	755728	OAuth2 with grant type password credentials works as expected	Triggering Pega OAuth2 for token generation with grant-type password credentials was resulting in a null pointer exception. This was a missed use case caused by the Operator page being removed during prior cleanup and has been resolved by adding the parameter page pyOperPage instead of Operator page for validating and getting scope.	Security
INC-240041	770300	CXF-CORE updated	The Apache CXF-CORE library has been updated.	Security
INC-249756	766071	Corrected typo in Authentication Profile label	The spelling in the label for the Authentication Profile has been corrected from "TSL" to "TLS" (Transport Layer Security).	Security
INC-251088	770178	"None of" added to access control policy conditions	Support for the "None of" has been added in order to support using ABAC and access control policy conditions to suppress resulting values from logged-in users visibility. The comparison value supports string, decimal, double, integer data types and consists of a comma-delimited list. The comparison value also supports value-list or page-list. The list of String values should be given inside a pair of double quotes for example: "BRAZIL,CANADA,FRANCE,GERMANY,SOUTH AFRICA,UK,USA". The condition is satisfied if an element of the list within the Apply To property value is not an element in the list within the comparison value.	Security
INC-252119	768491	BAC Security updated for RDA invocation	In order to ensure Robotic Desktop Automation (RDA) integration works properly and securely, updates have been made to handle the BAC registration necessary for the execution of activities from section reloads.	Security
INC-252607	768825	Updated EndSession request encryption for basic logoff activity	Clicking on logoff generated an error. The error also appeared when valid MAF credentials were entered and the cancel button was clicked. This was traced to the logoff URL being encrypted with an old URL encryption mechanism, and has been resolved by ensuring the logoff URL uses the latest URL encryption mechanism.	Security
INC-254671	777542	Corrected handling for asynchronous REST calls with OAuth	An OAuth-protected asynchronous REST service was not processing the data as expected. This was an unintended side effect of work done for application switching to set a custom AuthServiceName instead of "mAuthServiceName" being blank: as custom authentication service doesn't have operator provisioning, this use case failed. This has been resolved by correcting the asynchronous call handling for custom authentication with access group context.	Security
INC-257111	777839	getXML method removed from debug logger	When attempting to work on cases, the error message "you are not authorized to open instance" repeatedly appeared. The issue was caused by AccessEvaluator logger, which when set to DEBUG retrieves all of the properties using autopopulate in order to print the log message. Autopopulate was disabled by default for obj-open and page-copy, getMessage, etc, but this was triggered unexpectedly with getXML when the logger was enabled for debugging purposes. To resolve this, the getXML method has been removed from the debug logger statement.	Security
INC-257638	782286	Token endpoint failure security alert added	A new alert SECU0022 has been added for OAuth2 token endpoint failure.	Security
INC-230119 INC-228754 INC-258555	755517 743815 781519	Locking updated for job scheduler	When job scheduler is run on multiple nodes, it was possible for a job to be run multiple times if node 1 finished the execution and released its lock before node 2 started the execution. This has been resolved with an update which prevents job scheduler execution if the job has already run on another node.	System Administration
INC-242432	758977	Frame length adjusted	During stream server startup (empty kafka-data) of an environment with a large number of queue processors and over 1,000 total partitions, no partitions were created and below error message "Adjusted frame length exceeds 65535: 67537 - discarded" was being thrown in Kafka logs during startup. This has been resolved by adjusting the frame length.	System Administration
INC-243905 INC-253093	775916 775156	Corrected job scheduler running unexpectedly	A job scheduler that was expected to run at the same time every day (8:15pm) was triggering twice a day and started even before the scheduled time i.e., 8:14:58PM. This has been resolved with an update that will verify if the current runtime is in the past for non-periodic job schedulers before execution.	System Administration
INC-247586 INC-243512	763562 765341	Corrected tracking of MFA verification attempts	When using multi-factor authentication where a verification code is sent, it was possible to override the three strikes rule and re-enable the resend verification button by refreshing the browser. This has been resolved by adding a parameter in the requestor page of the pzHandleMFA activity which will hold the pyCount and be checked on browser refresh.	System Administration
INC-247916 INC-247475	770109 762844	Job scheduler will use current time to avoid DST offset	Job scheduler was running jobs twice after the change for daylight savings. This has been resolved by using currentTime.get(Calendar.DST_OFFSET) rather than referenceTime to reduce the potential offset mismatch.	System Administration
INC-249284	771081	Handling added for null CreateDateTime value	Job schedulers were not running due to pxCreateDateTime being null in the pr_data table. This has been resolved with an update which will add the pxCreateDateTime value to instances of tables where it is missing.	System Administration

8.7.5 Patch Resolved Issues

Ticket #	Issue #	Title	Description	Product Area
INC-237999	761907	Layout renders with combined visibility and expand conditions	Visibility expressions were not working and that particular layout was not rendering when there was a combination of a visibility expression and expand layout. Either condition rendered correctly when alone, but not in combination. This was traced to the expandParam containing ".", which generated an exception when using non-template mode, and has been resolved.	User Experience
INC-206095	700426	Resolved blank screen for case work portal after upgrade	After upgrading from Pega 8.2 to Pega 8.6, a blank screen was displayed when case work portal users clicked on the save and exit button, and a 400 error was logged in the browser console. This has been resolved by modifying the sender requester method from GET to POST.	User Experience
INC-212251	720199	Editable data page properly refreshes after interaction	A data page using editable mode was adhering to the "Reload once per interaction" option used for readonly mode. This led to issues such as tables not refreshing after sorting or applying filters. To resolve this, refreshReloadInteraction has been updated to false when mode is not readonly.	User Experience
INC-215063	710048	Helper text added to button UI control	In order to improve accessibility for the Pega UI button, the aria-hidden="true" attribute has been added on the icon/image markup inside the button. With this change, the computed Name will be the title (helper text).	User Experience
INC-217792	732218	Mashup refresh loads active case	Mashup was not loading the active case after refresh. This was an unintended side effect of work done with setting the context for Mashup and has been corrected.	User Experience
INC-222507	721694	Helper text added to clarify maxlength enforcement	It is possible to enter more characters into a browser field than is specified by the maximum character limit unless read-only formatting is used. This is due to the resulting HTML input tag having the type of number, which leads to the browser default behavior of not honoring the maxlength attribute. In order to clarify this, helper text has been added with the message "Min and Max characters are ignored for type Number when 'Display value using read-only formatting' is unchecked."	User Experience
INC-224317	723104	Corrected embedded page list render error	Using a page list within a page list was rendering with overlapping field forms. This has been resolved by removing the negative margin from field group legends when presented in a list.	User Experience
INC-231096 INC-256913	775976 782239	Corrected inheritance section refresh / call data transform logic	When a button was pressed in the UI to refresh the section and apply the data transform RequestSignature, which exists in both the Work and Work-Signing class, the data transform resolved correctly to the one in Work-Signing class. However, when using the DX API PUT /assignments/{ID}/actions/{actionID}/refresh endpoint, RequestSignature from the Work class is invoked. This was traced to an error in the DX API code which caused the data transform to be called from the wrong class. To resolve this, the inheritance logic for DT/ACT for a refresh in an inherited section has been updated.	User Experience
INC-231316	744049	Corrected tab display with collapsed panel	Tabs were not displaying properly in the case view with collapsed summary panel (when there is too many tabs). This has been corrected.	User Experience
INC-231365	748005	Multiple error messages for a property displayed correctly	If a property had more than one validation error message, field values were not displaying the actual full verbiage. This was traced to the newline character handling in the getMessagesMap() API, and has been resolved.	User Experience
INC-231605	745783	Portal resize functions correctly when using MobileSnapStart	After configuring the application's default portal with an outer harness consisting of 4 panels where "User resizable" was checked for the left hand side menu panel so it can be resized or collapsed by the user, displaying the page using pyMobileSnapStart caused the left side menu to become fixed and it could not be resized or collapsed. This has been resolved by modifying the java code for the GenerateLayout--(ClipboardPage,ClipboardPage) function and pzAddPortalLayouts activity.	User Experience
INC-231696	769655	Added forceReconnect to address telephony error	While using telephony, a pop-up appeared intermittently indicating "Reconnecting" when an agent was on a call or idle for specific time (more than 30 mins). To address this, support has been added to use pega.u.MessagingManager.forceReconnect in handleWebSocketError. This API will be used by Pega Call to reconnect the websocket when pega.u.clientEvents.WS_ON_CLOSE is registered.	User Experience
INC-233974	746843	Focus stays on current layout tab after refresh	When working with a case using tabbed layouts, switching to tab2 and making changes that triggered a refresh of the whole section resulted in focus going back to tab1 instead of staying in tab2. This was caused by the layout group being generated on a nesting page list, which generated the same data-repeat-id for all layout groups which were present inside the repeating structure. This has been resolved by updating the logic to use the most recent index location.	User Experience
INC-234102	743038	Dynamic Layout Group shows new tab icon in Tab layout	After setting up a Dynamic Group Layout with "Enable adding new tab" checked, a save-as of the Dynamic Group -> Tab2 was performed. When using the standard format the '+' was visible, but when using "Tab2" format the '+' icon was not present. This was traced to an incorrect aria-expanded for accordion and has been corrected.	User Experience
INC-234202	763980	Navigation items highlighted correctly when using render as single page	If "render as single page" was unchecked in the user portal, clicking on any navigation item or opening a work object from the left navigation panel caused the whole page to reload and the wrong item was highlighted in the navigation menu. This has been resolved by updating constructMetadataObject to consider context.	User Experience
INC-235733	770105	Radio button support added for Nuance Dragon	To improve accessibility, support has been added for using Nuance Dragon to activate radio buttons by adding the necessary CSS styles to the radio button inputs.	User Experience

8.7.5 Patch Resolved Issues

Ticket #	Issue #	Title	Description	Product Area
INC-236492	756034	Text area property in a data type shows full content	When using a Message Routing Rule data type with a column of control type pxTextArea (which can hold text up to 1000 characters), the full cell value was properly visible in Dev Studio, but displayed inconsistently in in App Studio or when used as a delegated data type in user portals. This was traced to the PegaFSFI ruleset which had a column format in the table set to "display a textarea with expanding capability" in DataTableEditorReport which was defaulting textarea formats when creating new data types. This has been resolved with an update to setStyle properly.	User Experience
INC-236779	747922	Report filter popup displays in the expected place	Previous work done on the popover.js to correct the filter popup placement has been further updated to display the filter popup in the expected position in reports.	User Experience
INC-236819	758648	Corrected table cell focus issue	When using a legacy grid with an expand row details configuration, the focus jumped to the top when there was a click inside the details section. This has been resolved.	User Experience
INC-237214	758805	Attachment drag and drop working correctly for Google Chrome	When dragging and dropping an attachment on Google Chrome, a refresh forced after the attachment was added removed the attachment before saving. This has been corrected.	User Experience
INC-237881	757168	Validation message shows on date field with custom validation	After configuring a text property with custom "use validate" on a Date control with onchange-Post value action, when user enters an incomplete date at runtime and tabs out, the input field was highlighted red but the error message was missing. On entering a valid date, the red highlight was not removed. This was traced to a missing parentNode.appendChild(errorDiv) in controls_postvalue, which has been added. In addition, handling has been added to correctly format the date if it is GMT format.	User Experience
INC-238781	760852	iOS scroll in mashup resolved	When using mashup, scrolling to the bottom of the page on an iOS phones caused it to automatically scroll upwards again. This was traced to an iframe scroll issue and has been resolved.	User Experience
INC-238830	750469	Context handling updated for error in dynamic layout	A "when" condition to hide an empty tab in a dynamic layout was causing the screen to freeze if validation failed. Investigation traced this to the "when" condition prohibiting the validation error from being displayed because the DLP for the empty temp value itself was hidden within the element. If an element is not rendered to the UI, validation can not be applied and the case can not progress to the next step/stage until this process has occurred. This has been resolved by updating the context handling for the endVisibleWhen in the contextStack if the UI is non-templated.	User Experience
INC-239409	756798	Improved security for ReloadSection and ReloadHarness calls	A validation check has been added for pre- activities and data transforms passing with reload section/harness actions.	User Experience
INC-240105	755979	Grid refreshes on adding a row in Constellation	When using a list view which referred to a data page in the Constellation portal, clicking the Add button to add a new record In the list view did not show the new record in the table until a manual refresh occurred. This has been resolved by adding a createStageDoneEvent to handle the refresh for this scenario.	User Experience
INC-240416	760973	Performance improvement for getworkstyle activity	Some performance slowness was seen due to the GetWorkStyle activity opening the skin ruleform on each run to conditionally set appWorkStyle and workStyle. Because this obj open step is only needed when the inStandardsMode parameter is false, an update has been made to skip the obj open step when inStandardsMode is true.	User Experience
INC-240651	756151	Bullet numbering corrected for paragraph rule in optimized table	A paragraph was not showing bullet/numbering points in an optimized table. This has been resolved by adding the necessary CSS.	User Experience
INC-240654	785796	Added handling for harness open error	After update, attempting to open assignments resulted in an error indicating "The flow this assignment corresponds to is no longer at this task." This was caused by a failed openWorkByHandle call. To resolve this, a check has been added to handle the NoID harness error in pz-cosmos-ui-portal.js file.	User Experience
INC-240757	754425	Localization check added for sourced dropdown values	When dropdown values were sourced from a data page using a report definition, the values were always localized even if the localize box was unchecked. This was due to the values being stored in Data Type when the localize checkbox controlled labels and read only text. This has been resolved by adding a check for bLocalize in Context Processor.	User Experience
INC-240897	757779	Explicit reset added for clearing custom date format	After selecting a custom formatter for a date field with "/" as the date separator for a legacy table with a date control inside one of the table cells, selecting the standard formatter for date (using "-" as the date separator) did not switch the separator and the "/" continued to be used. This was traced to the customDateTime value not being empty even though the format had been changed back to the default, and has been resolved by setting customDateTime to null in the pxFormatDateTime Rule-Utility-Function when the selected format is not Custom.	User Experience
INC-241196	753093	Table sort resets for default view	When the personalized view was changed to "default" from any other view that had sorting, the default order was not returned. This was a missed use case: the data page instance was sorted by passing the sort criteria on the view change, but for the default view there was no "default" sort criteria to use. This has been resolved for tables sourced from a datapage.	User Experience
INC-241380	758401	Application switch works properly in Theme-Cosmos	The error "NullPointerException in SafeURL.put(key,value) {Location}, {undefined}" was appearing in the UI when attempting to change from one application to the other application. Investigation traced this to pzMyApps missing the necessary Theme-Cosmos version of pzEncryptAppSwitch, and this has been resolved. In addition, the pzDeferLoadApplicationLogo control has been withdrawn as it is no longer needed.	User Experience

8.7.5 Patch Resolved Issues

Ticket #	Issue #	Title	Description	Product Area
INC-241418	756870	System lock details display as expected	Hovering the mouse over system lock details to get the SmartInfo with operator ID resulted in the error message "Loading HTML failed". This has been resolved by adding a condition to check the server proxy before accessing it in the isOnline function under the statetracking file.	User Experience
INC-241738	779645	Corrected memory leak for offline mobile app using maps	Attempting to navigate to a worklist and open a case on an offline mobile app displayed a white screen after application refresh. This has been resolved by addressing memory leaks related to the canvas element created for map and signature controls by removing references and by removing unneeded listeners. Because map object creation can consume extra memory, support has been added to reuse the map object in the refreshsection case. To reuse the map object in the refereshsection case, configure the data-test-id.	User Experience
INC-241805	756270	Tab layout uses template mode when using defer load	When using defer load, the multiselect dropdown was rendered in readonly mode. Investigation showed that when the defer load checkbox was checked for section include of tab group layout, it generated non-template markup. This has been resolved with an update which will render the tab layout in template mode when using defer load.	User Experience
INC-242338	784039	Assignment header correct when launched from optional action	After update, a case with optional actions configured on the stage which was launched from an open assignment showed the assignment header from the previously open flow action instead of the expected assignment header from the optional flow action. This has been resolved by unchecking the run visibility check condition on pyCurrentActionLabel and pxTaskLabel in the pyCaseActionAreaTitle section.	User Experience
INC-242855	768284	Documentation updated to include validateHiddenField DSS setting	Documentation has been updated to note that the validateHiddenField DSS setting for Theme Cosmos and other section-based applications will control whether the application validates fields that are hidden through visibility rules. By default, validateHiddenField is set to true, which means that the application fields are validated for completeness even if they are not displayed in the form. This functionality can be switched off by changing the setting value to false.	User Experience
INC-242971	758583	Display harness updated with portal name for improved backwards compatibility	After updating from Pega 8.4 to Pega 8.7, actions which triggered SECU0019 such as opening a case from correspondence were blocked despite the identified actions and URLs being registered. This has been resolved by adding the portal name to the display harness action with target as new document.	User Experience
INC-243277	756361	Display of navigation link label corrected	The label of the screen flow's navigation link was intermittently displayed in an incorrect location when steps in a multi-step form in a stage were configured with a decision shape and steps were routed based on the decision result. This has been corrected.	User Experience
INC-243874	757157	All columns viewable when there are no records	The table's horizontal scroll bar was missing when there were no records in the table. The table could only be scrolled by keeping the cursor on the table columns. This was traced to the "No records found" div having position as absolute, hiding the scroll bar. To resolve this, the position of the empty container has been moved to pContainer, which has specified width.	User Experience
INC-243935	769200	Minimize button working in Rich Text field	When using a section containing a repeating dynamic layout with drag and drop capability enabled on a Rich Text Editor, all of the buttons on the edit bar were disabled after using maximize. If the "Enable drag to reorder items" checkbox was unchecked, the minimize and maximize worked correctly. Investigation showed the sortable library injects event handles when the maximize icon is clicked, and these handles are added to the document element. Upon clicking of minimize, the correct target was not picked for the action because of the additional event handlers attached. To resolve this, a condition has been added for the Rich Text Editor in the sortable.js file to handle minimizing the rich text field.	User Experience
INC-243995	759017	Corrected tab focus after using group-by	When interacting with grid operations such as creating groups and hiding columns using only the tab key, tabbing again once the actions were complete refreshed and focused on the beginning browser bar instead of the table as expected. Investigation showed that the button from which the popover was launched was no longer present in the screen once the grouping was completed, causing the focus to move to the browser. This has been resolved by overriding focus to a visible group-by button when the toolbar is refreshed or a button is changed due to an action in the popover invoked by the group-by button.	User Experience
INC-244016	760978	Accessibility improved for hidden screenflow breadcrumb links	Users who navigated a form with JAWS were unable to execute or hear non-current breadcrumb links, both on mouse over and on focus. Instead, JAWS was reading out the last stage chevron and 'link' when focused on a non-current breadcrumb. This has been resolved by adding the necessary handling for a visually hidden screenflow.	User Experience
INC-244057	756599	Session timeout modal window properly aligned	When a modal was present on the screen, opening a workflow resulted in the session timeout popup being displayed in the top left corner of the screen instead of center. This has been resolved by passing isCenterOverlay as 'true' to align it properly.	User Experience
INC-244408	761563	Active breadcrumbs showing once	When question pages were embedded in a screen flow, running the case caused the active question page's label to be shown twice on the screen and both the breadcrumbs were clickable. This occurred when the checkbox "Subprocess has navigation links" was used, and has been resolved by hiding the subprocess steps for an embedded question page.	User Experience

8.7.5 Patch Resolved Issues

Ticket #	Issue #	Title	Description	Product Area
INC-244424	759943	Layout documentation updated for using "no more data to load" message	Documentation for layout configuration options has been updated to clarify that "Display message when there is no more data to load" works only when the underlying harness is configured to use the client-side template UI.	User Experience
INC-245431 INC-246531	764784 778033	Mashup loads correctly with setAuthenticationHeaders	Mashup was not loading correctly when using the <code>pega.web.api.setAuthenticationHeaders</code> function to set an authorization header. This has been corrected.	User Experience
INC-245567	762500	Corrected error message handling for on-change	If there was a validation error message on a field generated by on-change of some other field, the validation message went away when the field was clicked even though there was no data change. The error message persisted on the clipboard, but was removed from the UI. This has been resolved by changing the order of the condition check for calculate expression.	User Experience
INC-245664	766610	Adjusted display of "Case created by" to handle long name value	After creation of a case through the email listener, the "Case created by" detail was spanning out of the tile. This was caused by a long value for <code>pxCreateOpName</code> , and has been resolved by allowing it to break for the display.	User Experience
INC-245819	766346	Updated visibility condition logic	After update, a visibility condition that contained references to <code>D_CaseAssignments</code> that was set to any stage-wide local action made all local actions not visible in the Actions menu. This was traced to the condition returning as false during runtime, and has been resolved by updating the logic in the <code>pzPopulateAssignments</code> activity.	User Experience
INC-246093	760289	Create Menu is consistent between Portals in Cosmos	When switching between two portals in a Theme Cosmos application, the Create case menu was not updating for the respective portals and showed the wrong cases. To resolve this, <code>ShowSelectedPortal</code> has been updated to call <code>pzClearStartingFlows</code> to clear the data pages involved with create menu.	User Experience
INC-246171	774006	Tooltips localized	Localization has been added to the Pega breadcrumbs browser tooltips.	User Experience
INC-246207	765047	Corrected tab focus for iframe	The interaction driver on the add task and close button was missing tab focus. This was traced to a missing <code>tabindex</code> for <code>iframe</code> , and has been resolved with an update which will check if the content has <code>iframe</code> ; if so, <code>tabindex</code> will set to <code>iframe</code> else the existing flow will continue.	User Experience
INC-246980	765282	Null checks added to resolve null dereference alerts	Null dereference is low risk in general in Java applications because no memory corruption can occur. Pega rules or variables will not be null at runtime during rule execution and thus a null pointer exception will not be thrown. However, the initialization of these may be detected by a scan which documents the theoretical possibility of not being initialized at runtime. To resolve these scan reports, null checks have been added to some identified areas related to dropdowns and checkboxes.	User Experience
INC-247329	762599	Spell Checker correctly clears error indication on save or refresh	After entering data, the rich text editor was highlighting an entire line as misspelt on save and refresh of the harness. In addition, the underline was not clearing after correcting an error in Dev Studio. To resolve this, the <code>onSubmit</code> regex expression has been updated to remove the spell checker underline on save or submit.	User Experience
INC-247967	764663	Expanded Create menu item will not take submenu color	Changing submenu item colors for the "Create case menu" menu format caused the expanded Create item to take this color as well. This has been resolved by hardcoding the color styling.	User Experience
INC-248044	768774	UI action from Mashup Screen corrected	After upgrade from Pega 8.3 to 8.7, a BAC/SECU0019 error was reported when launching harness in Mashup. This was traced to the use of a dynamic container with multi-document mode, which is an unsupported configuration for Mashup due to the BAC features introduced in Pega 8.5. Switching to a dynamic container with single document mode resolved the security issue, but using the close / cancel button on a work object in Mashup was not returning to the home page and there were resize issues due to Mashup not having extensive support for a dynamic container with single document mode. This has been resolved.	User Experience
INC-248452	766594	Corrected rounding precision issue	A rounding error appeared during multiplication of some numbers. This was traced to precision settings for the fields and has been resolved by using <code>toFixed</code> in specific circumstances when the actual decimal precision is less than configured.	User Experience
INC-248692	765250	Number controls honor custom width	After update, decimal properties with integer control were ignoring all custom width settings. Investigation showed the generated style was <code>'width</code> instead of <code>just width</code> , and this has been resolved by modifying the style from <code>"" to ""</code> in order to fix the custom width issue for number controls.	User Experience
INC-249197	775840	Added special handling for Asia/Jakarta dates	For timezone 'Asia/Jakarta', when the date '01/01/1964' is selected, the date is changed to 1 day less (31/12/1963). This is an issue particular to this locale, caused by a time zone change from GMT+7:30 to GMT+7 at the end of 1963-12-31(GMT+7.30). This means the moment 1964-01-01T00:00:00 in GMT+7.30 is also 1963-12-31T23:30:00 in GMT+7. To resolve this, an update has been made which will convert using <code>Date.UTC</code> before applying the timezone for the dates in question.	User Experience
INC-249243 INC-258056	765688 781056	Corrected keyboard focus in modal window	When a flow action was configured to hide the default action button sections and then launched in a modal window, using the tab key moved the focus out of the modal window and into the background sections. This has been resolved.	User Experience
INC-249417	764837	Updated regex for button labels in case creation screen	After upgrade, adding "&" before the letter in a button label no longer worked to create a keyboard shortcut for the button, for example using "Submit & E&mail" in <code>Fieldvalue</code> (<code>pyButtonLabel</code>) resulted in "Submit & E&mail" rather than the expected "Submit & Email". This was caused by the system restricting two '&' symbols in template mode, and has been resolved by replacing double backslash (<code>\d</code>) with single backslash (<code>d</code>) in the regex.	User Experience

8.7.5 Patch Resolved Issues

Ticket #	Issue #	Title	Description	Product Area
INC-249703	768020	Main navigation submenu icons display correctly	After adding two or three sub child Menus to the "pyCreateCaseMenu" with different Icons, selecting the child menu caused the menu name to get padding on the left and the icon for the child was stacked on top of the main icon at the top. This has been resolved by modifying pzPega_menu_item_icon_template.js and pz-cosmos-ui-portal.js so the items are displayed correctly.	User Experience
INC-249749	777856	Screen reader focus correct when error icon displayed	The NVDA Screen reader focus was not correct after clicking submit when validation was not met. This was a missed usecase for an error icon on top of the field which prevented the focus moving to the first invalid element in the modal. This has been resolved by updating the focusToFirstInvalidField function in pzpega_ui_doc_focus to correctly handle this scenario.	User Experience
INC-250022	766727	Loading text made available for customization or localization	When the dashboard of a user portal was being loaded, a hardcoded "loading.." string in English appeared and disappeared. This was coming from the final rule PegaCompositeGadgetMgr[Final] and was hardcoded and not localized. This rule has been modified to accommodate the localization or removal of the loading string completely by using the field value for "Loading".	User Experience
INC-250184	765237	Modal close button correctly announced by screen reader	The modal close button was not being announced correctly with the screen reader, announcing the button as "button" instead of "close". This has been resolved by updating the aria-label attribute.	User Experience
INC-250450	766585	Corrected filter icon overlapping label text	An issue with the filter icon overlapping label text when using an optimized table has been resolved by removing the padding-right as 0px from grid header label to accommodate the sort, filter icon and column menu.	User Experience
INC-250615	777280	Tab name handling updated to support symbols	After upgrade, creating a case in a user portal that used an AJAX container resulted in symbols like '(' and ')' in the tab name being replaced with junk characters. This has been resolved by modifying the setTabName function in pzpega_ui_mdc_tabs.js.	User Experience
INC-251168	775044	Updated breakout encryption for offline mobile app	After implementing BAC security and setting the when rule pyBlockUnregisteredRequests to 'true', any offline mobile AJAX calls with Executebreakoutcall failed. Investigation showed the pzOSCOBreakoutWrapper dispatcher itself was throwing an unregistered error. This has been resolved by encrypting the OSCOBreakout activity.	User Experience
INC-252009	776212	Corrected PST datetime converting to GMT and then to CST	When a user in the PST time zone selected the current PST time for a submission, the value was being converting to GMT in the CST server time zone instead of PST user time zone, causing a validation failure that the date cannot be in the future. This has been resolved by updating pega_ui_calendar and pega_ui_formatdatetime handle this scenario.	User Experience
INC-252723	772302	Able to select localized date values	Logging in using the French locale and selecting the date was generating an error. This was traced to a localization issue with strings having single or double quotes and has been resolved by adding handling for escaping single and doubles quotes in the Smart Tip message rule field generation.	User Experience
INC-252879	771303			
INC-250977	778744	PD4ML updated	Issues with formatting PDFs have been resolved by updating the PD4ML jar to version 4.0.13fx6.	User Experience
INC-252957	780596	Correct buttons displayed for local action in screen flow	After creating a case type which included a screenflow in the case lifecycle along with case-wide actions, progressing the case to step 2+ in the screenflow and selecting a case-wide action displayed the Back button instead of Cancel. This was an issue with pyCaseActionAreaButtons when using a case-wide action while the case is in a screen flow, and has been resolved by adding a new visibility condition for Cancel/Back buttons which will avoid showing screen flow buttons in case-wide actions.	User Experience
INC-253043	770869	Tab key focus added to Operator icon	To improve accessibility, styles have been added to the user/operator icon to support keyboard tab focus.	User Experience
INC-253092	771593	Corrected highlight persistence	When using a field with control Currency, entering a value into the field and highlighting it using the keyboard input ctrl + a / cmd +a added the highlight, but when the ctrl +a / cmd +a was released the highlight was removed. This has been resolved by adding an additional check for selection.	User Experience
INC-253692	773877	AJAX container correctly shows busy indicator	The busy indicator was not appearing during a long finish assignment processing wait when using an AJAX container. This was caused by the condition to display the busy indicator only checking for document.forms.length (DC), whereas in case of an AjaxContainer, elements will present in fieldset instead of form. This has been resolved by updating the check to work for both DC and AJAC containers.	User Experience
INC-253866	776448	Added handling for missing InstanceID	Based on a search, data from 8-10 different case types was fetched and displayed in 5 different hierarchical tables. One of the tables had a retry link column; on click, a local action opened which could be submitted. When there were a large number of records, the submission took a long time but no busy icon appeared. Investigation showed this only happened with hierarchical tables and not with optimized tables. The intanceID was not getting generated for the hierarchical table, due to which the grid object was stored with an undefined key by replacing the existing grid object and storing the last table object details in the metadata. To resolve this, pyInstanceID will be set on the componentInfo object to get the correct IDs for the treegrid during registration.	User Experience
INC-253992	775253	Filter pop up displays correctly for absolute position	The filter pop up was not displayed properly in reports when the parent container position was absolute. This was due to a missing condition check, and has been resolved.	User Experience

8.7.5 Patch Resolved Issues

Ticket #	Issue #	Title	Description	Product Area
INC-254059	772432	Updated handling for Validate rule on date property	After configuring a date control on a page that had three date-only drop downs, a validate rule on a flow action which added messages onto the property caused the page to hang and generate a browser console error on refresh of the section. This has been resolved by modifying pega.ui.Formatter.formatDateTime to check for an invalid DateTime value when there is an error, and return the formatted datetime value for valid values.	User Experience
INC-254270	783622	Autocomplete correctly captured in scenario testing	Given a screen where values for some fields were set based on the selection of an autocomplete, recording it using scenario testing kit version 1.6 captured the auto-complete value, but the other fields based on auto-complete selections were not being captured. Investigation showed there was a timeout related to an internal on-change event occurring on an autocomplete element which has now been resolved.	User Experience
INC-254668	773110	Handling added to correct Moment DST offset for dates after 2037	When a datetime of greater than 2038/01/01 00:00:00GMT was read from the clipboard in certain timezones, 1 hour was incorrectly removed as a DST offset by the third-party Moment JS. In cases where the time was set to midnight, this resulted in the displayed date being 1 day early. This issue only affected datetime values and can be avoided by using a date value instead. To resolve this, handling has been added for correctly returning the moment object if the year is greater than 2037 for a datetime control with date property.	User Experience
INC-254768	780716	Corrected class search that caused RuleNotFoundException for teams	Clicking on the teams menu item on the user portal home screen resulted in a blank screen. The error "RuleNotFoundException:Failed to find a 'RULE-OBJ-ACTIVITY' with the name 'PZINITIALIZETEAMDASHBOARD' that applies to 'Data-Admin-WorkGroup'" was logged. Investigation showed this was caused by the PZINITIALIZETEAMDASHBOARD activity being searched for in the wrong class, and this has been resolved.	User Experience
INC-255216	776251	Corrected decimal formatting display	Issues with formatting a decimal value were seen after update. The error '<Number>' is not a valid decimal value was traced to the system enclosing quotes in a decimal input property after submit. This has been resolved by correcting the value formatting if the last character is a separator. An issue with the "\$" value not being visible when an error message is displayed has been resolved by allowing updating of the date-value for backspace and delete.	User Experience
INC-255697	780076	Active when condition restored for read-only harness	The Active When condition in the Navigation rule was not working for a read-only harness when navigating through the screens, leading to the current step in the navigation menu not being highlighted. This was an inadvertent side effect of work done on the "pzpega_control_menu" rule which has been reverted to restore the previous behavior.	User Experience
INC-256304	778345	Layout header property read by screen reader	After adding "Include icon or value" to a layout header, a property or constant was not being read by the screen reader in browse mode with arrow keys. This was caused by the aria-label that was being applied to the button element overriding the constant text property and causing it not to be read by screen readers, and has been resolved by removing the aria-label from layout_header_content for a collapsible dynamic layout.	User Experience
INC-256835	779126	Check added for dynamic pre-activity parameters in dropdown	After configuring a drop down with options loaded on hover sourced by a clipboard page using a pre-activity accepting parameters, an "Invalid clipboard stream detected in module (unspecified)" error was generated by pzGetDropdownOptions indicating invalid JSON. Thereafter the pre-activity was called without any parameters, static or dynamic. This was happened only when static parameters were passed in the pre-activity for loading dropdown options, and has been resolved by adding a check for dynamic parameters in the pre-activity.	User Experience
INC-258008	780660	JAWS reads radio control client side errors consistently	Radio controls marked as required were triggering client side validation messages, but JAWS was not reading these messages consistently. This has been resolved by adding the needed roles alert to read out an error message when focus is changed using the tab key.	User Experience
INC-258212	781039	Corrected Expand-Collapse icon accessibility	When an optimized table is configured with grouping enabled, Pega renders group headings with a button that can expand or collapse a particular group. After update, the top-most button (expand/collapse all) was not accessible using keyboard navigation when using Microsoft Edge. This has been corrected.	User Experience
INC-258271	781009	Improved reports browser table accessible navigation	When accessing the report browser in list mode, the accessible navigation was not always applied to the grid, resulting in inconsistent keyboard navigation which required a browser refresh. This has been resolved by adding a check for the grid element in the DOM.	User Experience
INC-258272	781644	Improved accessibility for multiselect in reports navigation	In the All Reports section of Reports navigation, JAWS announced the incorrect role "tab" when navigating to the "search by.." text box and "Category" combo box. This was caused by the role application being added to the body during multiselect focus, and has been resolved by removing the setting of the role application for the body in the multiselect updateMSLiveRegion API.	User Experience
INC-258275	781097	Improved checkbox accessibility for repeating dynamic layout	Table filter checkboxes did not have the correct label and state for an accessibility reader to read-out, causing the state of the checkbox and the context of the checkbox to not be announced. This has been resolved by changing the repeating dynamic layout navigation mode to "Use form navigation (by tab)".	User Experience

8.7.5 Patch Resolved Issues

Ticket #	Issue #	Title	Description	Product Area
INC-258427	780416	Corrected typo in toLowerCase function	The processHarnessType.toLowerCase function in the ui_doc file has been updated to correct a misspelling in the code.	User Experience
INC-258862	781800	Able to navigate correctly into modal when opened from fields in grid	Navigating from the "Fields" button presented a list of items for JAWS to read, but there was no visible focus when the down arrow was used to navigate. Additionally, when the user first selected the "Fields" button, JAWS announced "list with one item" even when there was more than one item. This has been resolved by adding form mode navigation for the fields in a repeating dynamic layout.	User Experience