

# **Alfabet Release Notes**

Alfabet 10.9

#### Documentation Version Alfabet 10.9.0

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# **TABLE OF CONTENTS**

Critical Issues Addressed in Alfabet 10.9	4
Significant Changes to Existing Functionality Introduced with Alfabet 10.9	4
What's New in Alfabet 10.9 for End Users?	5
Overview of Usability Enhancements	5
Detailed Description of Usability Enhancements	6
New Ad-Hoc Milestones for Project Planning and Enterprise Releases	11
New Default Status for Copied and Versioned Objects	11
Extensions to the Data Capture Capability	12
Enhancements to Microsoft® Teams Integration	13
Enhancements to Business Case Definition	14
Enhancements to Demand Management	14
Enhances to Policy Management	14
Enhancements to Technology Architecture	14
Revisions to Email Management	16
Enhancements to the Job Schedule Functionality	16
Other Solution Enhancements and Changes	17
What's New in Alfabet 10.9 for Solution Designers?	18
New Relational Representation of the Presentation Model	18
Configuration Capabilities for the New Analyze Intent of the AlfaBot	19
Enhancements and Changes to the Class Model	20
Enhancements and Changes to Queries and Instructions	21
Enhancements and Changes to Reports Configuration	22
Enhancements and Changes to the Interoperability Configurations	24
Enhancements and Changes to the Alfabet Data Integration Framework (ADIF)	25
Additional Changes to Solution Configuration Capabilities in Alfabet Expand	26
What's New in Alfabet 10.9 for System Administrators	27
New Platform Architecture Based on Event Queuing	27
Revised Handling of Email Notifications	31
Advanced Options for Index Defragmentation	32
Changes to the Embedding of Third-Party Components	32
Other Changes to the Alias Configuration of the Alfabet Components	33
Other Changes to Database Maintenance Options	35
Additional Changes to System Administration	35
Issues Resolved with Alfabet 10.9	36
Resolved End User Issues	36
Resolved Solution Configuration Issues	37
Resolved System Administration Issues	38
Resolved Empower Issues	38
Resolved Brainstorm Issues	39
Migration Issues Relevant to Alfabet 10.9	39
Alfabet Documentation Available with Alfabet 10.9	41
Service and Support	42
Meta-Model Changes Between Alfabet Releases 10.7 and 10.9	43

# **ALFABET 10.9.0 RELEASE NOTES**

# Critical Issues Addressed in Alfabet 10.9

The following issues are critical issues that have been addressed with Alfabet10.9. If the specified conditions are applicable, the correction of these issues may warrant an upgrade to Alfabet release 10.9:

- The Jira® attribute accountID has replaced the Jira attributes username and userkey for JIRA cloud instances. To ensure integration of Alfabet with a Jira cloud instance, a new XML attribute UserIdentifier has been added to the XML element DataConnection in the XML object JiraIntegrationConfig. The XML UserIdentifer should be set to AccountID for a Jira cloud deployment and to UserName for an incumbent on-premise deployment. The values for the attribute AccountID will be stored in the relevant ADIF temp tables during import. If Jira integration is implemented in your solution, please note the changes that must be made to the XML object JIRAIntegrationConfig described in the section Migration Issues Relevant to Alfabet 10.9.
- Microsoft® has discontinued support of Microsoft® Azure® Translate Text v 2. As a result, interoperability with Azure translations services has been updated in Alfabet to address Microsoft® Azure® Translate Text v. 3. In order to continue using translation services based on Azure in Alfabet 10.9, the XML attribute ServiceType="AzureCognitive" must be added to the XML element TranslationServiceInfo available in the XML object AlfaTranslationServicesConfig.

# Significant Changes to Existing Functionality Introduced with Alfabet 10.9

The following issues represent significant changes to the use of Alfabet in release 10.9:

- With Alfabet release 10.4, the Extended Data Capture functionality was introduced to provide the next generation of bulk data capture functionalities in Alfabet that allowed the enterprise to speed up and simplify the initial collection and maintenance of a dataset by capturing a large amount of data via spreadsheets. The sophistication of the Extended Data Capture functionality has made the original Data Capture functionality obsolete. As a result, the original Data Capture functionality has been removed with Alfabet release 10.9. Any data capture projects configured in the original Data Capture functionality should be reconfigured using the Extended Data Capture functionality.
- The XML attribute UseSourceQueryFromReport is obsolete and has been removed from the XML XSD definition of the XML object SolutionOptions.
- If vendor products are created for an ICT object based on Technopedia software and hardware products, only vendor products will be updated where the Technopedia product attribute create\_date is greater than the value of the Alfabet property ICTObject.TP\_UPDATE. Please note that it is possible that if outdated vendor products have been retroactively added to Technopedia, they will be uploaded to Alfabet.

# What's New in Alfabet 10.9 for End Users?

This release contains many new capabilities and enhancements. These are described below:

- Overview of Usability Enhancements
- <u>Detailed Description of Usability Enhancements</u>
  - New Animated User Interface Elements for an Enhanced User-Experience
  - Enhanced Functionality of the AI-Enabled Data Quality Analysis
  - Enhanced Search Results in the AlfaBot
  - New Share Documents Capability
  - Enhanced Permissions for Broadcast Messages
  - Enhanced Structured Nodes in Node Arc Reports
  - Enhanced Prioritization Scheme
  - Enhanced Workflow Activity Explorer
  - Enhanced Download Import Status Report Functionality for Data Capture Templates
  - Enhanced Column Usability in Editable Class View Reports
  - Improved Visualization in Object Cockpits
  - Change to Non-Editable Object Symbol
- New Ad-Hoc Milestones for Project Planning and Enterprise Releases
- New Default Status for Copied and Versioned Objects
- Extensions to the Data Capture Capability
- Enhancements to Microsoft Teams Integration
- Enhancements to Business Case Definition
- Enhancements to Demand Management
- Enhances to Policy Management
- Enhancements to Technology Architecture
- Revisions to Email Management
- Enhancements to the Job Schedule Functionality
- Other Solution Enhancements and Changes

# **Overview of Usability Enhancements**

Each new Alfabet release includes many enhancements targeting easier configuration and product use. These are in response to issues brought to our attention by our customers as well as internal users. The following provides a short summary of the most significant enhancements made in this release regarding

usability. For a detailed explanation of these features, see the section *Detailed Description of Usability Enhancements*.

- New Animated User Interface Elements for an Enhanced User-Experience: Add to users'
  understanding of the data in standard views and configured reports by having the graphics build
  dynamically as a view is opened. Animation is enabled for portfolio charts, Gantt charts, branching
  diagrams, sunray diagrams, circular roadmaps, and more.
- Enhanced Functionality of the AI-Enabled Data Quality Analysis: Monitor the progress of data
  quality improvement initiatives and use workflows for reminders and escalations to keep data quality
  on track.
- Enhanced Search Results in the AlfaBot: Ask the AlfaBot questions on various qualitative aspects
  of the IT portfolio, using facetted search capabilities to pinpoint the precise answers needed and
  several possible report templates to present the findings.
- New Share Documents Capability: Easily share documents among multiple objects of the same class or stereotype by using the new "Shared Documents" button. Stipulate in a list of other objects which ones should have the document as an attachment and click on "Share with other Applications" to make the document available to the chosen objects. Likewise, stop sharing documents among objects using the same procedure and the "Detach Shared Documents" button.
- Enhanced Permissions for Broadcast Messages: Alert specific users, groups of users, or user profiles to issues and news items with the new tabs that have been added to the Broadcast Message editor. Each tab opens a list of the desired recipient type for easy selection.
- Enhanced Connections in Node Arc Reports: Have a better understanding of the connections between objects by using box-in-box rendering to depict multi-level information. This richer representation format uses node nesting to include more information, thus providing more context to the user. Arc connections can be between either the outer nodes or the inner nodes.
- Enhanced Workflow Activity Explorer: Keep your My Workflow Activities "in-box" neat and better
  manageable using the automated functionality to delete finished, refused, and expired workflow
  activities after a pre-defined maximum number of days. Further, move on automatically to the next
  open activity upon completion of a workflow activity.
- Enhanced Column Usability in Editable Class View Reports: Define the desired number of
  columns to freeze for better visibility during horizontal scrolling. The frozen columns in the dataset
  are reflected in the editor.
- Improved Visualization in Object Cockpits: Clearly indicate that filters are in use in the page views and custom reports that are displayed in cockpits using a filter icon and tooltip with a filter summary. Further, inline editing fields in object profiles and cockpits have a lighter and cleaner appearance in alignment with other Alfabet UI elements.
- Change to Non-Editable Object Symbol: Clearly indicate to users the editing capability of a view and their own personal editing permission for such a view.

# **Detailed Description of Usability Enhancements**

A wide range of capabilities have been included in this release that enhance the usability of Alfabet. These are described in detail below.

New Animated User Interface Elements for an Enhanced User-Experience

- Enhanced Functionality of the Al-Enabled Data Quality Analysis
- Enhanced Search Results in the AlfaBot
- New Share Documents Capability
- Enhanced Permissions for Broadcast Messages
- Enhanced Structured Nodes in Node Arc Reports
- Enhanced Prioritization Scheme
- Enhanced Workflow Activity Explorer
- Enhanced Download Import Status Report Functionality for Data Capture Templates
- Enhanced Column Usability in Editable Class View Reports
- Improved Visualization in Object Cockpits
- Change to Non-Editable Object Symbol

#### New Animated User Interface Elements for an Enhanced User-Experience

A new animated visualization capability is available in the Alfabet user interface for standard views and configured reports displaying portfolios, Gantt charts, branching diagrams, sunray diagrams, circular roadmaps, and more. If activated, the data in the view is dynamically visualized when the view is opened. The animation can be implemented in the Alfabet user interface via the new **Enable Animations of Visualizations** checkbox available in the **User Settings** editor.

#### **Enhanced Functionality of the AI-Enabled Data Quality Analysis**

- Results of the cluster analysis are now stored persistently in the new Clustering Recommendation
  (ALFA\_CLUSTERING\_RECOMMENDATION) object class. The views representing clustering results will
  read data directly from the Clustering Recommendation object class instead of generating the
  data when the view is rendered.
- As users make changes to the data fed into the Al-enabled Data Quality Analysis, the recommendations resulting from the analysis will be addressed. Thus, a new ADIF scheme DataQualityRefreshRecommendationJob has been introduced to update the data quality recommendations resulting from the cluster analysis. It updates the information in the object class ALFA\_CLUSTERING\_RECOMMENDATION which in turn will ensure that updates from users are correctly reflected in the Al-Enabled Data Quality Report views.

#### **Enhanced Search Results in the AlfaBot**

A new Analyze intent is available in the AlfaBot to help users searching for specific information in reports that may not have relevant information in the title or description. For example, a user searching for information about the usability of the enterprise's applications could find the report "Market Readiness of Applications" which includes an indicator for usability even though the term "usability" is neither in the title or description of the report. The configuration required in the configuration tool Alfabet Expand to implement

the Analyze intent is described in the section *Configuration Capabilities for the New Analyze Intent of the AlfaBot*. The following describes aspects of the new feature relevant to the end user working in the Alfabet user interface:

- A new Analyze intent has been added to the AlfaBot. The search request that the user enters in the AlfaBot will be analyzed based on the following:
  - The search is identified as matching the analysis intent based on the training phrases defined for this intent.
  - The search includes synonyms and related words in addition to the search terms entered by the user. For example, a search request including the word "expensive" would also find configured reports about "budget" and "costs".
  - A new Alias attribute has been added to object classes available in the class model in the
    configuration tool Alfabet Expand. The Alias attribute allows one or more comma-separated
    keywords to be defined that can be indexed for searches via the new Analyze intent in the
    AlfaBot.
  - In addition to the Caption, Description, and Business Problem Statement attributes of a configured report, the search will also use the Apply To attribute and the information from the Semantic Analysis sub-node of the configured report to find relevant reports. The Semantic Analysis functionality has been further enhanced to include any "hard-coded" values for object class properties such as Name and Stereotype as well as for values based on enumerations, indicator types, and evaluation types. A search for "usability of applications" will therefore find a configured report displaying indicators of the indicator type "Usability".
  - Per default, the Analyze intent only finds configured reports that are not based on any specific context object, or where the context is determined by objects that are artifact object classes in the IT landscape or object classes involved in risk management, project management, or contract management. Configured reports that provide editing capabilities for object classes or are configured in the scope of Alfabet functionalities such as for the questionnaire or data capture template functionalities are excluded. The scope of configured reports taken into account for the intent can be changed in the solution configuration.
- The new Analyze intent requires regular maintenance via the **Job Schedule** functionality:
  - The new Analyze intent is based on training phrases defined in the **AlfaBot Configuration** functionality. These training phrases can use the placeholder @report for the search string.
  - The Analyze intent requires regular generation of a search index via the new standard SemanticSearch ADIF job. It is recommended to run this ADIF job regularly (for example daily) to include changes to configured reports, indicator types, and evaluation types.
  - The popularity score for configured reports must be created and updated in regular intervals
    via a new standard UpdateReportsPopularity ADIF job. The use of the Presentation
    Usage Tracking functionality (as configured in the Alfabet server alias) is a prerequisite for
    the popularity score to be shown.
- A new card view format is available to display the search results whereby one card is displayed for each configured report that matches the search conditions. The user can navigate from the card directly to the configured report. A ranking of the search results based on the best match is performed and the ranking as well as the matched words in the search phrase are displayed on each card. Information about when the user last viewed the configured report is also displayed on the card to help the user find a configured report he/she may have recently viewed or not visited in the recent past. In addition, a popularity score is also displayed on the card indicating which report has been most frequently viewed by other users in the user community.

In addition to the filters in card view that are standard for all card view reports in Alfabet, further filters are displayed in the left pane of the card view. The user can filter the result based on report template types such as portfolios or Gantt charts. Other filters will be dynamically generated based on the search. For example, if the search results include evaluation types, the user can filter according to a specific evaluation type.

#### **New Share Documents Capability**

Documents assigned as attachments to an object can be shared to other objects of the same object class. The **Attachments** page view has been enhanced with a new **Shared Documents** button. The user can select a document of type **Document** to share and click the button to open a **Shared Documents** editor that allows the objects to be selected that shall share the document. The selected document can also be removed from objects in this view. The number of objects that share the document are displayed in the new **Shared** column. Please note that URLs (type **Web Link**) cannot be shared.

#### **Enhanced Permissions for Broadcast Messages**

Broadcast messages may now be targeted towards specific constituencies in the user community. The **Broadcast Messages** editor has been enhanced and the new **Users** tab allows individual users to be specified, the new **User Profiles** tab allows user profiles to be specified, and the new **User Groups** tab allows specified user groups to be specified. Please note that inheritance is not applied so that individual user groups are assigned access permission to the broadcast message. If no user, user profiles, or user groups are defined, the broadcast message will be available to the entire user community as in previous releases of Alfabet.

#### **Enhanced Structured Nodes in Node Arc Reports**

Configure node arc reports have been visually enhanced to show nested nodes. For example, information flows between applications are displayed with a higher level of detail to distinguish the information flows associated with local components. A single level of nesting can be configured for nodes, and arcs can connect both inner and outer level nodes. Node sizing can be configured to dynamically resize either inner or outer nodes to ensure that all inner nodes can be displayed up to a maximum number of nodes. For more information about the configuration required in the node arc report to display nested nodes, see the section *Enhancements and Changes to Reports Configuration*.

#### **Enhanced Prioritization Scheme**

Alfabet Instructional text has been added to the **Prioritization** page view for a project group if no prioritization scheme has yet been selected. The text instructs the user to select a prioritization scheme in the **Prioritization Scheme** field in order to display the weighting scheme. Once displayed, the weighting scheme can be adjusted as need in order to rank the projects.

#### **Enhanced Workflow Activity Explorer**

The following enhancements have been made:

- A new configuration option allows finished and refused workflow activities displayed in the Workflow Activities Explorer functionality to be determined based on the maximum number of days that the workflow activities have been finished, refused, and expired. This ensures that obsolete workflows are no longer cluttering the My Workflow Activities explorer. A new XML attribute ActiveWorkflowHistory has been added to the XML object SolutionOptions. An integer shall be defined to represent the maximum number of days that finished and refused workflow activities shall be displayed in the My Workflow Activities explorer. The integer can have a value between 1 and 31 to represent maximum number of days for which workflow activities should be displayed. If the value is set to -1, all activities will be displayed.
- Additionally, a new Move to Next Open Workflow Activity field is available in the new Workflow
   Explorer Settings tab of the User Settings editor. If the checkbox is selected, the first open
   workflow activity will be automatically selected in the Open Activities folder of the My Workflow
   Activities explorer after a workflow activity is completed.
- The Move to Next Open Workflow Activity field as well as existing fields relevant to the My
  Workflow Activities explorer are available in the new Workflow Explorer Settings tab in the User
  Settings editor.

#### Enhanced Download Import Status Report Functionality for Data Capture Templates

The **Download Data Capture Template** option in the **New** menu of the **Extended Data Capture Templates** functionality will only be enabled if the selected data capture template is defined to be executed asynchronously and the associated XSLX file has been generated and is ready to be downloaded. Otherwise, the **Download Data Capture Template** option will be disabled.

#### **Enhanced Column Usability in Editable Class View Reports**

In configured editable class view reports, the number of frozen columns (i.e., the number of columns shall remain visible during horizontal scrolling) can be defined. This concept has been enhanced to ensure that only the columns frozen in the dataset will be frozen in the editor. If some of the frozen columns are not displayed in the editor, the number of frozen columns in the editor will be reduced accordingly.

#### Improved Visualization in Object Cockpits

Several enhancements have been made to the usability and visualization of object cockpits:

- The following enhancements have been made for configured reports and standard views embedded in an object cockpit to indicate why no data is shown for the configured report or view:
  - A new filter symbol will be displayed in the header of presentation controls embedded in object cockpits if the filters are active in the underlying Alfabet page view or custom configured report. The filter symbol indicates that only some of the applicable data is displayed. It might also indicate why the presentation controls displays a " **No data provided** ... " message. Users can hover with the mouse pointer over the filter symbol to display a tooltip providing the filter summary.
  - If the presentation control does not show data because a mandatory filter is not been defined, a filter symbol will be displayed with a tooltip providing information about the undefined mandatory filter field(s).

• The styling for inline editing fields in object profiles and object cockpits has been enhanced to have a lighter and cleaner appearance and is aligned with other interface elements in the Alfabet user interface.

#### Change to Non-Editable Object Symbol

The non-editable object symbol will only be displayed in the header of a view if the user has no permission to use available Read/Write interactions. It will no longer be displayed for views that inherently provide no editing capabilities.

# New Ad-Hoc Milestones for Project Planning and Enterprise Releases

A new capability is available to create ad-hoc milestones on demand in the context of a selected project or enterprise release. This new capability provides complete flexibility in the creation of milestones and allows companies to forego the configuration of milestone templates. Ad-hoc milestones can be created in the **Project Milestones** page view and the **Enterprise Release Milestones** page view. Both views have a new **Create Ad-Hoc Milestones** view that opens an **Ad-Hoc Milestone** editor in which the milestone's caption, short name of up to 3 characters, target date, and foreground and background colors can be defined. Alternatively, the foreground and background colors configured for a selected milestone template may be used instead. An ad-hoc milestone may be defined as **Completed** indicating that the milestone had been met and is completed. A new **Commit Ad-Hoc Milestones** option has also been added to the **New** menu allowing the user to indicate that the definition of the milestone is finished. Once an ad-hoc milestone has been committed, the target date can no longer be changed in the **Ad-Hoc Milestone** editor. If the target date requires modification, it must be changed in the **Milestone Target Date** editor. This is aligned with the handling for milestones derived from a milestone template..

The new protected object class AdHocMilestone has been added to the class model. Class settings, custom object views, etc. can be defined for the class AdHocMilestone as usual.

# **New Default Status for Copied and Versioned Objects**

In previous releases, a new object created as a copy, version, or variant of another object inherited the value of the **Status** attribute of that base object. With this release, a new configuration allows the default status configured for the relevant object class to be used as the value of the **Status** attribute of the copied object. This new configuration is relevant for the classes **Application**, **Component**, **Component Test**, **Contract**, **Device**, **ICT Object**, **Information Flow**, **Policy**, **Service Product**, **Stack**, **Standard Platform**, **Vendor Product** and the various classes available for integration solution database connections. For more information about the relevant configuration required in the XML objects <code>SolutionOptions</code> and <code>ReleasestatusDefs</code>, see the section *Additional Changes to Solution Configuration Capabilities in Alfabet Expand.* 

# **Extensions to the Data Capture Capability**

A number of enhancements have been made to the Extended Data Capture Templates functionality:

- A new cost-based data capture template is available to capture request, current, and budget cost types in one or more currencies for the architecture classes Application, Deployment, and ICT Object.
  - The data capture template is configured for the class BudgetValue. The Enable for Data Capture Template attribute must be set to True for the class BudgetValue as well as for the Value, Owner, MonetaryCodeId, Year, Currency, MonetaryType properties of the class.
  - The **Basic Data** tab is similar to the **Basic Data** tab in the class-based data capture template with a few differences relevant to capturing costs:
    - If the Export Record Provider or Sample Record Provider attributes are defined, the
      configured report must return a report providing the references for Owner and
      CostType. The owner may be any of the following classes: Application, Deployment,
      ICT Object
    - The Annual Cost Buckets Provider field allows a configured report to be specified
      that returns the yearly cost buckets that shall be added as rows in the Class
      Properties tab. Alternatively, a start date and end date can be specified respectively in
      the Annual Cost Buckets Start Date and Annual Cost Buckets End Date fields.
    - A **Currency** field allows one or more currencies to be specified for the data capture template. If more than one currency is specified, a Currency column will be added to the XSLX file allowing the users capturing the data to specify a currency for a combination of Owner and CostType. Please note that the values as defined in the XLSX file will be imported to the Alfabet database. The currency of the imported values will be converted at runtime based on the exchange rate configured in the **Currency Exchange Rates** view when the relevant cost view is loaded in the Alfabet user interface.
    - A Cost Definition Type field allows the user to specify whether request, current, or budget values shall be captured in the data capture template. An additional Export Cost Definition Type field allows a different cost type to be exported than the one that shall be imported. In this case, for example, request values could be exported to a data capture template in which current values shall be captured. Using functions and operations in Excel, the user could efficiently modify the exported Request values in order to define and import Current values.
  - The Class Properties tab allows each bucket owner class (applications, deployments, and ICT objects) to be specified for which the costs shall be captured. The owner objects can be found via a specified configured report or based on specified stereotypes. All relevant annual cost buckets found via the annual cost bucket specification in the Data tab will be displayed as a row in the dataset in the Class Properties tab. User can specify if a bucket shall be included in the data capture template and whether capturing data for the annual cost bucket is mandatory.
  - In the XLSX file, the user shall select the relevant cost object found via the data capture template definition in the Owner column and the relevant cost type in the CostType column in the Excel file. If multiple currencies have been specified, a Currency column will be added to the Excel file.

- The value shall be captured in the currency specified in the data capture template for each relevant annual cost bucket column. When importing the XLSX file, the entire row will be imported in the Alfabet database, whereby each owner object/cost type/annual bucket is imported as one record. If four annual buckets are specified for a owner object and cost type, then four records will be added to the Alfabet database. Any previously existing records for the same combination of owner, cost type, and annual bucket will be removed.
- The Download Data Capture Template option in the New menu of the Extended Data Capture
  Templates functionality will only be enabled if the selected data capture template is defined to be
  executed asynchronously and the associated XSLX file has been generated and is ready to be
  downloaded. Otherwise, the Download Data Capture Template option will be disabled.
- Records in the uploaded XLSX file will be rejected if the image properties of a class (such as
  LevelID, Name in the case of the class Domain or BusinessProcess) are not correctly specified in
  a reference property column such as BelongsTo. Information explaining in which column the error
  has occurred will be written to the Error Message column of the XLSX file generated via the
  Download Import Status Report functionality.
- The permissible hierarchy of stereotypes for demands and policies specified in the relevant XML objects (**DemandManager** and **ITPolicyManager**) will be validated when imported via the data capture templates.
- With Alfabet release 10.4, the Extended Data Capture functionality was introduced to provide the next generation of bulk data capture functionalities in Alfabet that allowed the enterprise to speed up and simplify the initial collection and maintenance of a dataset by capturing a large amount of data via spreadsheets. The sophistication of the Extended Data Capture functionality has made the original Data Capture functionality obsolete. As a result, the original Data Capture functionality has been removed with Alfabet release 10.9. Any data capture projects configured in the original Data Capture functionality should be reconfigured using the Extended Data Capture functionality.

#### Enhancements to Microsoft® Teams Integration

- A new Join MS Team button has been added to the MS Teams Collaboration panel if an MS Teams
  collaboration has been started for an object and the team or channel in MS Teams is public but the
  user is not in the team.
- A new Include Current View as Snapshot button has been added next to the message field in the
  MS Teams Collaboration panel. The new button allows an image of the current view to be added to
  the channel. The snapshot will be displayed in the MS Teams Collaboration panel as well as in MS
  Teams.
- If the user detaches a channel from an Alfabet object via the **Detach** button the **MS Teams Collaboration** panel, the MS Teams channel and all messages will be deleted in the **MS Teams Collaboration** panel visible in Alfabet. The conversations will remain available in MS Teams.
- The value of the MS Teams ID attribute defined in the User editor will be interpreted caseinsensitive in order to ensure interoperability with MS Teams.

#### **Enhancements to Business Case Definition**

Enhancements have been made to the functionality to capture business cases:

- Comments can be made about the business case information associated with individual cost types
  and income types. A new Comment field has been added to the Business Case editor that allows
  the user to add text for each row representing a cost type or an income type. The comments will be
  displayed in the new Comment column in the Business Case page view for a project.
- The placeholder texts in the **Business Case** editor have been changed to "Type number" in order to provide better support to the user specifying the business case.

# **Enhancements to Demand Management**

The specification of the demand hierarchy has been extended to include the configuration of which demand stereotypes may be assigned to which demand group stereotypes. If multiple demand stereotypes are permissible for a demand group, users creating a new demand for a demand group will be required to first define the demand stereotype that the new demand shall be based on in the **Stereotype Selector** that will automatically open when the **Create New <Demand>** action is selected. The **Stereotype Selector** lists the demand stereotypes with their description that are permissible for the selected demand group. For more information about the relevant configuration required in the XML object **DemandManager**, see the section *Additional Changes to Solution Configuration Capabilities in Alfabet Expand*.

#### **Enhances to Policy Management**

- The specification of the policy hierarchy has been extended to include the configuration of which policy stereotypes may be assigned to which policy group stereotypes. If multiple policy stereotypes are permissible for a policy group, users creating a new policy for a policy group will be required to first define the policy stereotype that the new policy shall be based on in the **Stereotype Selector** that will automatically open when the **Create New <Policy>** option is selected. The **Stereotype Selector** lists the policy stereotypes with their description that are permissible for the selected policy group. For more information about the relevant configuration required in the XML object **PolicyManager**, see the section *Additional Changes to Solution Configuration Capabilities in Alfabet Expand*.
- The relationship between policies and the affected architecture elements can be defined from the
  perspective of the affected architecture element. The Affected Policies page view and
  Implemented Policies page view have been modified and the Add Existing Policy, Edit
  Comments, and Detach Policy options have been added to both views.

#### **Enhancements to Technology Architecture**

Enhancements have been made to the technical architecture to all local components to be created and maintained from the perspective of the owning component.

 The Component Usage page view for a component has been revised in order to ease the maintenance of the component in application/component platforms, standard platforms, and information flows as well as easily upgrade technology versions in platforms. The following changes have been made:

- The hierarchy of the dataset in the view has been enhanced to include the level of local components.
- A new **Substitute with Another Component** option has been added to the **New** menu. The **Substitute with Another Component** option allows the currently selected component to be substituted by another component for standard platforms in which the selected component is a platform element, application/component platforms in which the selected component is used as a local component, application platforms in which the selected component is used as a standard platform element in the embedded standard platform, and in information flows where the selected component is used as an interface system. Once the component is substituted by another component, it will be removed from the **Component Usage** page view of the selected component and will be displayed in the **Component Usage** page view available for the substituted component.
- A new Substitution Possible column has been added to the dataset and displays a
  checkmark for all components where substitution is possible making it transparent where the
  Substitute with Another Component option can be applied.
- A new Restrict to Substitutable Usages filter has been added that allows the content of the dataset to be restricted to only those usages which a checkmark in the Substitution Possible column.
- A new Create Local Component option has been added to the New menu that allows a local component derived from the selected component to be created for one or more selected applications or components. The Edit button has also been added to the view in order to allow the local component to be assigned to the relevant platform tier and platform layer of the application/component platform in the Local Component editor.
- The **Delete** button has been added in order to allow to delete local components, platform elements, stack configuration items, and/or interface systems of information flows that have been derived from the selected component.
- The **Detach** button has been added that allows local components derived from the selected component to be detached. The **Is Standard** attribute of the technical platform element that the component is based on will be set to False.
- The **Standard Platform Usage** page view for a standard platform has similarly been changed to support the maintenance of standard platforms. The dataset has been changed to a hierarchical dataset to display the application and component platforms as well as the standard platforms where the selected standard platform is used. The **Substitute with Another Standard Platform** option has been added to allow the selected standard platform to be substituted by a different standard platform for the application/component platforms and standard platforms displayed in the view. The **Restrict to Suitable Usages** filter and the **Substitution Possible** column have been added to the view. The **Delete** button and **Remove** button have been added, whereby the **Remove** button detaches the standard platform from the application/component platforms while the **Delete** button deletes any local components associated with the standard platform that were created via the **Copy Platform Elements from Standard Platform** functionality in the **Technical Platform Elements** view or **Platform Architecture** view of the relevant application/component.
- A Technical Architecture tab has been added to the standard Local Component and Solution
   Local Component editors that allows the local component to be assigned as platform element to a
   specific platform tier and platform layer.
- The following enhancements have been made to interoperability with Technopedia®

- New interactions to create new components based on Technopedia software and hardware products have been added to the **Components** page view for ICT objects.
- If vendor products are created for an ICT object based on Technopedia software and hardware products, only vendor products will be updated where the Technopedia product attribute create\_date is greater than the value of the Alfabet property ICTObject.TP\_UPDATE. Please note that it is possible that if outdated vendor products have been retroactively added to Technopedia, they will be uploaded to Alfabet.
- The columns Edition, Suite, and Alias have been added to the Vendor Product selector as well as the dataset in the Simple Search functionality when the class Vendor Product is selected in Search For field.

# **Revisions to Email Management**

Various enhancements have been introduced to simplify the sending and maintenance of emails. The technical aspects of these changes are described in the section *Revised Handling of Email Notifications*. The following changes are relevant to email management functionalities available in the Alfabet user interface:

- The **Email Message Log** (ADMIN\_MessageLogging) functionality has been completely revised and the functionality displays not just emails sent for assignments, monitors, and workflows but all emails sent in the context of Alfabet. The new dataset displays the sender as well as the users in the **CC** and **BCC** fields, the subject line, the time that the email was triggered and the execution was completed, the current status of the email execution, and any relevant error messages. Users can search for emails in the dataset via new filters that allow the subject line, the email recipient, the start and end times of the email execution, and the status to be used as search criteria.
- The new **Alfabet Configuration Overrides** functionality allows settings to be specified that override server configurations. The **Alfabet Configuration Overrides** functionality allows solution designers that do not have access to the Alfabet Administrator and need to test a configuration in which emails are triggered to override the test email account and sender email address definitions made in the server alias configuration of the Alfabet Web Application. The email settings defined via the user interface will override settings made in the server alias configuration of the Alfabet Web Application. Different test scenarios performed by various testers might require a different test email account specification. Therefore, multiple override definitions can be created and activated or deactivated as needed.
- Activation of email logging for monitors via the Activate Message Logging option in the Monitors
  and Notification Monitors functionalities is deprecated and no longer available. Additionally, the Is
  Active column has been removed from the views.

# **Enhancements to the Job Schedule Functionality**

- Job schedules can be defined without a schedule definition and configured to be executed each
  time a job for a master job schedule is executed. This simulates the execution behavior via
  Windows® batch jobs whereby jobs are configured to be executed in a given order. The following
  configuration is required:
  - When defining the master job schedule, the dependent job schedules that shall be executed
    on completion of jobs for the master job schedule must be defined via the new On
    Completion Jobs attribute available in the Execution Info tab in the Job Schedule editor.

- The new Indirectly Triggered checkbox in the Basic Data tab may be selected in the Job
  Schedule editor of the dependent job schedule. If the Indirectly Triggered checkbox is
  selected, a schedule definition must not be defined in the Schedule tab for the dependent job
  schedule.
- A new read-only **Priority** attribute has been added to the **Basic Data** tab of the **Job Schedule** editor. The attribute is required for the new platform architecture to process jobs based on event queuing. Job schedules for the execution of ADIF jobs will inherit the priority from the ADIF scheme. For all other job schedules, the **Priority** attribute will be set to NORMAL. For more information about the scheduling of jobs in the new platform architecture, see the section *New Platform Architecture Based on Event Queuing*.
- The relevant time for executing job schedules has changed from server time to database server time. The texts and times displayed for the execution time in the Alfabet user interface have been adapted accordingly.

# Other Solution Enhancements and Changes

- A new Workflow Explorer Settings tab has been added to the User Settings editor. The tab
  contains the fields relevant to the My Workflow Activities explorer.
- Word Cloud reports and Kanban reports can be exported to SVG format.
- Icons displayed in Gantt charts will be included in the DOC or PDF file published for an object profile or object cockpit.
- If an object profile or object cockpit is resized causing the captions of the toolbar buttons to be truncated, the toolbar buttons will be correctly resized and displayed when the user switches to a different object cockpit available in the same object view.
- The width of the legend displayed for graphic configured reports will be automatically sized to the space required for the available content, thus reducing excess blank space in the legend.
- The **Personal Info** functionality will be disabled in the Alfabet user interface for users logged in as anonymous users.
- A new Scenario Type field has been added to the Project Scenario editor in the Project Scenarios
  page view. The new field allows a predefined or customized scenario type to be specified for the
  project scenario. The defined scenario type will be displayed in the new Project Scenario column in
  the view.
- The User editors available in the Alfabet user interface as well as the Alfabet Administrator have been enhanced and a new Collaboration Data tab has been added. The Email, Email Notification Language, Skype ID, Skype Domain, MS Teams User Name, and MS Teams User ID fields have been moved from the Basic Data tab to the Collaboration Data tab.
- The following enhancements have been made to the ADIF Jobs Administration (ADMIN\_AdifJobs) functionality:
  - ADIF schemes with mandatory parameters cannot be executed via the ADIF Jobs
     Administration functionality. If an ADIF scheme configuration includes mandatory parameters, the execution option in the ADIF Jobs Administration functionality will be deactivated. Customers are advised to use the Job Schedule functionality available in the Alfabet user interface to manage the execution of complex ADIF jobs that include mandatory parameters.

- Asynchronous ADIF export has been enhanced and the editor to define an export file will only be displayed if the ADIF export targets a file.
- Synchronous execution of ADIF jobs is no longer supported. The buttons for synchronous
  execution of ADIF jobs in the ADIF Job Administration functionality have been removed. The
  success of the asynchronously executed ADIF job will be provided via the event feedback
  message capability.
- Error messages have been enhanced if access permissions for RESTful services are missing in the
  context of job schedules. The name of the missing access permission is included in the error
  messages.
- The Font field in the Font Properties editor in the Alfabet Diagram Designer has been changed to a
  non-editable field that shows the font defined in the Application Font attribute of the GUI scheme
  associated with the user profile.

# What's New in Alfabet 10.9 for Solution Designers?

The following is relevant to solution designers using the configuration tool Alfabet Expand.

- New Relational Representation of the Presentation Model
- Configuration Capabilities for the New Analyze Intent of the AlfaBot
- Enhancements and Changes to the Class Model
- Enhancements and Changes to Queries and Instructions
- Enhancements and Changes to Reports Configuration
- Enhancements and Changes to the Interoperability Configurations
- Enhancements and Changes to the Alfabet Data Integration Framework (ADIF)
- Additional Changes to Solution Configuration Capabilities in Alfabet Expand

#### New Relational Representation of the Presentation Model

New object classes have been added to the Alfabet class model to store information about the current presentation model configuration. The new object classes representing configuration objects enable solution administrators to configure reports about the current configuration of the presentation model.

- The following new presentation model object classes have been added to the Alfabet meta-model to store information about the current meta-model configuration. These object classes each have a class setting, object profile, and selector definition and reference each other where applicable.
  - ALFA\_PM\_OBJECTVIEW\_INFO: This class stores information about the configuration of object views.
  - ALFA\_PM\_OBJECTVIEWDETAIL\_INFO: This class stores information about the object cockpits, configured reports, page views, and workspaces included in the configuration of object views.

- ALFA\_PM\_COCKPIT\_INFO: This class stores information about the configuration of object cockpits.
- ALFA\_PM\_COCKPITDETAIL\_INFO: This class stores information about the configuration of presentation objects (graphic views and configured reports) in object cockpits.
- ALFA\_PM\_PAGEVIEW\_INFO: This class stores information about the configuration of page views.
- ALFA\_PM\_WORKSPACE\_INFO: This class stores information about the configuration of workspaces.
- ALFA\_PM\_EDITOR\_INFO: This class stores information about the configuration of editors.
- ALFA\_PM\_WIZARD\_INFO: This class stores information about the configuration of wizards.
- ALFA\_PM\_WIZARDSTEP\_INFO: This class stores information about the configuration of wizard steps.
- ALFA\_PM\_CONDITION\_INFO: This class stores information about the configuration of conditions that determine visibility in the context of object cockpits, page views, wizards, and workspaces.

Solution designers can update the content manually via the new **Generate Presentation Model Information** option available via the sub-menu of the button **Meta-Model** in the toolbar of Alfabet Expand Windows and in the context menu of the **Utilities** node in the **Utilities** designer in Alfabet Expand Web. The information will be updated automatically during update of the meta-model from an AMM file or a master database.

#### Configuration Capabilities for the New Analyze Intent of the AlfaBot

A new Analyze intent is available in the AlfaBot to help users searching for specific information in reports that may not have relevant information in the title or description. The search includes synonyms and related words in addition to the search terms entered by the user. Further, the intent offers advanced analysis capabilities with regard to the configured reports. In addition to the **Caption**, **Description**, and **Business Problem Statement** attributes of a configured report, the search will also use the **Apply To** attribute and the information from the **Semantic Analysis** sub-node of the configured report to find relevant reports. For more information about the implementation of the Analyze intent in the Alfabet user interface, see the section *Enhanced Search Results in the AlfaBot*.

The following configurations of the meta-model are relevant for implementation of the new Analyze intent of the AlfaBot:

- The Alias attribute has been added to object classes available in the class model in Alfabet Expand.
   The Alias attribute allows one or more comma-separated keywords to be defined that can be indexed for searches via the new Analyze intent in the AlfaBot.
- The new **Analysis Intent Mode** attribute has been added to the **AlfaBot Support** section in the attribute window available for object classes. If the **Analysis Intent Mode** attribute is set to Full, the new Analyze intent will include the object class and properties thereof in the semantic search analysis. The attribute is set to Full for all standard object classes that store information about artifacts in the IT landscape. It is set to None for all standard object classes that merely support functionality. The attribute is only editable for custom object classes. It is recommended that it be set to Full only for those classes that store artifact base information.

- The semantic analysis for configured reports has been extended to include object class property values. They are displayed as child nodes of the object class property nodes. The value setting analysis is read-only. The functionality provides input for the AlfaBot to enable search for configured reports via the new Analyze intent. Object class properties defined in a WHERE clause with no wildcard in the value specification will be analyzed. The feature is relevant and implemented for the following object class properties:
  - Object class properties of the type Boolean
  - Object class properties of the type String based on an enumeration.
  - The Name or Stereotype object class properties of object classes.
- In the **Reports** explorer in Alfabet Expand, the new private
  AlfabetDefaultAnalysisIntentReport report is available in a new private AlfaBotReports
  report folder. The reports finds configured reports relevant for the new Analyze intent via a query
  targeting the object class ALFA\_REPORT. Only configured reports that are returned by this report are
  included in the search for the intent. The configured report limits the search to configured reports
  that have the **Applicable for AlfaBot** attribute set to True. Furthermore, the **Apply to Class**attribute must either be not set, set to an artifact class in the IT landscape, or set to an object class
  involved in risk management, project management, or contract management. Configured reports are
  excluded if they provide editing capabilities for object classes or are configured in the scope of
  Alfabet functionalities (such as in the questionnaire or data capture template functionalities).
- The standard AlfabetDefaultAnalysisIntentReport report can be substituted by a configured report returning objects of the object class ALFA\_REPORT. In the XML object AlfaChatBotConfig, the name of the alternative configured report must be specified in the new XML attribute

  AnalyzeIntentReport of the child XML element Settings of the XML element ChatBotInfo.
- The Analyze intent requires regular generation of a search index via the new standard SemanticSearch ADIF job available in the **Alfabet Standard Jobs** folder of the ADIF explorer in Alfabet Expand. It is recommended to run this ADIF job regularly (for example daily) to include changes to configured reports, indicator types, and evaluation types. The ADIF job can be scheduled for automatic execution via the **Job Schedule** functionality.
- A search index directory must be specified in the server alias of the Alfabet Web Application to execute the ADIF scheme.
- The popularity score for configured reports included in the search results for the intent require the popularity score to be calculated via a new standard <code>UpdateReportsPopularity</code> ADIF job available in the **Alfabet Standard Jobs** folder of the ADIF explorer in Alfabet Expand. This ADIF job should be scheduled to be executed in regular intervals via the **Job Schedule** functionality. The popularity score is stored in the new object class property <code>POPULARITY</code> available for the <code>ALFA\_REPORT</code> object class. The use of the **Presentation Usage Tracking** functionality (as configured in the Alfabet server alias) is a prerequisite for the popularity score to be shown.

#### **Enhancements and Changes to the Class Model**

• The new protected object class AdHocMilestone has been added to the class model in order to allow companies to forego the configuration of milestone templates and instead create milestones on demand in the context of a selected project or enterprise release. Class settings, custom object views, etc. can be defined for the class AdHocMilestone.

- A new object class property ScenarioType has been added to the Project object class. The property is associated with the new protected enumeration ProjectScenarioType. The new property allows a predefined or customized scenario type to be specified for the project scenario. The defined scenario type will be displayed in the new **Project Scenario** column in the **Project Scenarios** view.
- The **Size** attribute of the properties CREATION\_USER and LAST\_UPDATE\_USER in the class QuestionaryIndicator has been changed from 16 to 128.
- The ID prefix can be configured for an object class stereotype. Please consider the following:
  - A new XML attribute ID Prefix can be added to the XML definition available for the Stereotypes attribute of an object class. No more than 5 characters should be specified for the ID prefix used to generate the unique identification number for new objects based on the object stereotype. If the XML attribute IDPrefix is not specified, the ID prefix of the object class that the object class stereotype is based on will be used to generate the ID. Please note that the integer generated for the unique ID is based on the number of instances created for the object class that the object class stereotype is based on, and includes all instances of all object class stereotypes created for the object class. Please note that it is recommended that the XML attribute ID Prefix for a stereotype is unique across all other class or stereotype prefixes. If this is not the case, it can not be guaranteed that the generated ID will be unique across the entire Alfabet database. Although not mandatory, it is highly recommended that the generated IDs are unique.
  - The values of the XML attribute ID Prefix configured in the XML definition for the **Stereotypes** attribute will be displayed in the new IDPREFIX column available in the ALFA MM STEREOTYPE INFO table.
  - The new ADIF import scheme SetStereotypeID is available in the **Alfabet Standard Jobs** folder in Alfabet Expand in order to update existing instances of object class stereotypes with a newly defined ID prefix. The import scheme allows the @ClassName and @Stereotype parameters to be specified.
- The Alias attribute has been added to object classes available in the class model in Alfabet Expand.
   The Alias attribute allows one or more comma-separated keywords to be defined that can be indexed for searches via the new Analyze intent in the AlfaBot.
- The new **Analysis Intent Mode** attribute has been added to the **AlfaBot Support** section in the attribute window available for object classes. If the **Analysis Intent Mode** attribute is set to Full, the new Analyze intent will include the object class and properties thereof in the semantic search analysis. The attribute is set to Full for all standard object classes that store information about artifacts in the IT landscape. It is set to None for all standard object classes that merely support functionality. The attribute is only editable for custom object classes. It is recommended that it be set to Full only for those classes that store artifact base information.

# **Enhancements and Changes to Queries and Instructions**

• A new instruction is available to change the alignment of text in all cells in one or multiple defined columns of a configured report. The parameters for the new SetCellAlignment instruction are identical to the parameters for the existing SetColumnsAlignment instruction. However, the SetCellAlignment instruction can be used in combination with cell formatting instructions like ColorAssignment because the text alignment is defined at the level of cell rendering.

• A new optional parameter is available for the PictureAssignment instruction to change the default center alignment of pictures defined via the instruction to either left or right alignment. The new attribute can be set via the editor available for the new PictureAssignment instructions in the Alfabet Query Builder and the editor for the definition of native SQL queries, or added as the last parameter to the PictureAssignment instruction. Allowed values are Left, Right, and Center: The following enhancements have been made to slider controls in filter panels:

```
PICTUREASSIGNMENT (ColumnName, Operator, "Value", IconGallery:IconName, IconText, "LegendText", "altText", Left);
```

- The range of the slider bars, the steps to set the slider handles, and the unit text behind the slider bar may be defined dynamically via the slider query definition instead of in the slider XML definition.
- Slider handles can be colored via a color definition that is returned in the slider query definition.
- The minimum and maximum value are displayed beneath the ends of each slider bar.
- Dates can be selected in slider controls. Please note that if dates shall be selected in the slider control, the unit and selection step are automatically set. A new slider mode for date can be defined in the XML definition
- Slider controls allow a range of values to be selected. A minimum and maximum value can then be selected for each slider bar via two slider handles.
- A message can be defined that will pop up if, for example, the slider control requires a missing
  master filter field setting in order to be rendered or the slide query does not return any results
  due to an incorrect query definition.
- When a new slider is added to a filter panel, the **XML Definition** attribute will be prefilled with an example XML definition to ease the slider configuration.
- In object cockpits, links can be defined in value controls of the sub-type Query. The JoinUrl instruction can be used to define a visible text for the link which is different from the link target URL.

# **Enhancements and Changes to Reports Configuration**

- The semantic analysis for configured reports has been extended to include object class property values. They are displayed as child nodes of the object class property nodes. The value setting analysis is read-only. The functionality provides input for the AlfaBot to enable search for configured reports via the new Analyze intent. Object class properties defined in a WHERE clause with no wildcard in the value specification will be analyzed. The feature is relevant and thus implemented for the following object class properties:
  - Object class properties of the type Boolean
  - Object class properties of the type String based on an enumeration.
  - The Name or Stereotype object class properties of object classes.
- The filter field displayed in configured reports applied to a class has been adapted to the selection of
  object class stereotypes in the Apply to Class attribute of the configured report. The object class
  stereotype name will be used in the caption and placeholder text of the filter field, and the selector
  defined in the class settings of the object class stereotype will be used to select the base object.

- Configured node arc reports have been visually enhanced to show nested nodes. For example, information flows between applications are displayed with a higher level of detail to distinguish the information flows associated with local components. The following additional configuration is required to display nested nodes in a configured node arc report:
  - In the new **In-Box Rendering** section, the area for placement of inner nodes in the custom diagram item template of the outer node must be defined. This can be done by one of the following methods:
    - A static definition may be defined in the Diagram Item to Container Area Map attribute. The custom diagram item template can be selected via a button on the top of the editor opening for the Diagram Item to Container Area Map attribute. One area to be selected for each of the custom diagram item templates in the list of selected custom diagram item templates.
    - A dynamic definition may be defined in the node query. The name of the column returning the area name must be mapped to the **Container Area Name Column Name** attribute.
  - The **Layout Type** attribute must be set to Scalable for both the custom diagram item template used for rendering the outer and the inner nodes. Custom diagram item templates used for outer nodes must have an area for placement of the inner nodes defined.
  - The query for the definition of nodes must be defined as a grouped dataset with exactly two levels to display nested nodes.
  - In the root node of the report assistant, the new **Enable Box-in-Box** attribute must be set to True.
  - Optionally, the sizing of the nodes can be altered. By default, nodes have a fixed size and the display of inner nodes is limited to the number of inner nodes fitting into the available space in the placement area of the outer box. Alternatively, either the outer nodes can be adapted to the required space to display the inner nodes of a fixed size, or the inner nodes can be resized to fit into the placement area of the outer node. Sizing can be fine-tuned by defining a minimum size for inner nodes or a maximum size for outer nodes as well as a maximum number of inner boxes per outer box. All definitions can either be done statically in the attributes of the In-Box Rendering section or dynamically via the query. The columns in the query returning the values must then be mapped to the respective <Feature> Column Name attributes in the In-Box Rendering section.
- Navigation is enabled from custom diagrams to standard diagrams. Standard diagrams can be selected as the navigation target in a custom diagram via the **Diagram Connection** nodes.
- Standard diagrams can be added to configured diagram list reports.
- A Kanban report can optionally have multiple lanes for the display and definition of objects from different object classes. The new **Report Type** attribute of the Kanban report must be changed from Simple to either ColumnLane or RowLane to include lanes for the column or row definition. The definitions related to the object class in the Kanban cells are then defined in the new **Class Entry** node of the explorer in the report assistant. This includes the definition of the property defining the relation to the row or column as well as the specification of editability within the Kanban report. The lane that the class should be displayed in is also defined via the **Class Entry** node. For existing Kanban reports, changing the **Report Type** attribute from Simple to ColumnLane or RowLane will automatically create a **Class Entry** node with the class-specific definition that was available in the root node of the report assistant and a **Lane Number** attribute set to 1, which means the first lane in the resulting report.

- Configured diagram list reports can now be used as a means to present all standard and custom diagrams available for an object to users. The following configuration is required in the report assistant of the configured diagram list report:
  - Custom diagrams are all stored in the object class ReportDiagram. For standard diagrams, a
    different object class is available for each type of diagram (for example, the
    LocationDiagram and AsIsArchitectureDiagram object classes). The query defined for
    the configured diagram list report must find objects of the respective object classes.
  - The navigation view available to open standard diagrams is a standard page view and dynamically defined via the query of the configured diagram list report. For custom diagrams, the navigation view is a configured diagram report that can optionally be defined in the query or can be defined in the **Definition** element for the custom diagram. A navigation view definition in the query supersedes the definition in the **Definition** element. The query must return the navigation view with the syntax: GraphicView:<a href="Name of standard page view">Name of standard page view</a> or Report:<a href="Name of configured report">Name of standard page view</a> or Report:<a href="Name of configured report">Name of configured report</a>. The column returning the navigation view must be specified in the new **Navigation View Column** attribute in the root node of the report assistant. By default, standard diagrams are opened with the view defined in the presentation object of the diagram report. If none is defined, the standard page view DefaultStaticDiagram will be used.
  - If a configured diagram list report shall provide access to standard diagrams, the buttons to edit the diagram should be disabled because standard diagrams are displayed with ReadOnly permissions. The new **Show Interaction Buttons** attribute available for the root node of the report assistant can be set to False to hide the buttons in the report.

# **Enhancements and Changes to the Interoperability Configurations**

- If the translation service Type="GoogleAdvanced" is specified in the XML object

  AlfaTranslationServicesConfig and the XML attributes IncludeAlfabetStandard and

  IncludeValidatedDataTranslation are both set to "true", duplicates of custom glossaries

  were loaded to the specified Google® bucket. This has been changed. Please note however that the
  file uploaded to the Google® bucket may have duplications if the files merged from the Internal

  Documents folder specified in the XML object AlfaTranslationServicesConfig contain

  originals that are included in the set of Alfabet texts to add. The file contents will be merged but the
  duplications will be skipped when the dataset is created in the Google cloud.
- A new integration interface with Apptio© is available to integrate IT portfolio and planning-related information managed in Alfabet with the cost planning in Apptio. Data can be both exported to Apptio and imported from Apptio. Data can be imported from both Apptio database tables and reports. Data can be exported to existing Apptio database tables and to new Apptio database tables. The following configuration is required:
  - The connection to the RESTful service APIs of the Apptio instance including transmission parameters must be defined in the new XML object **ApptioConfig** with the platform API path defined in the XML attribute ApiPath and the uploader service API defined in the XML attribute UlsApiPath. The XML attribute LoginType can be either apikeylogin for login with service key and secret key or nonurllogin for login with user name and password. The login data has to be specified in the respective XML attributes. Connections to multiple Apptio instances can be defined. A schema definition and a template are available for the XML object to ease the configuration.

- In the Integration Solutions Configuration functionality, an object of the new object class Apptio Connection (Apptio\_DBConnection) must be defined, including a reference to the Apptio connection defined in the XML object ApptioConfig as well as definition of the Apptio environment, application and, if applicable, branch the integration shall target.
- For import from Apptio, an ADIF import scheme must be defined and configured via the new Apptio\_ImportAssistant. In the assistant, the Apptio Connection must be selected first. Then the import logic can be defined for multiple Apptio tables or reports. This includes the definition of the time period for import. Data can be imported from all time periods or only the current time period. In addition, import can be limited to data that has been changed.
- For export to Apptio, at least one category for the new use case ApptioExport must be defined in the XML object **UserCaseCategories**. The Scope of the category must be set to Report.
- For export to Apptio, a tabular configured report returning the data to be exported to Apptio
  must be configured with the Category attribute set to the category for the use case

  ApptioExport. The report must include a data column to map the data to a time period in
  Apptio.
- For export to Apptio, an ADIF export scheme must be defined and configured via the new
  Apptio\_ExportAssistant. In the assistant, data from the configured report for export can
  either be mapped to an existing database table in Apptio or a new database table can be
  created during export.
- The integration with Azure DevOps® was amended with an option to update the AzureID stored with Alfabet objects automatically if new objects are created in Azure DevOps during export of data from Alfabet to AzureDevOps. AzureDevOps provides information about the ID and, in some cases, additional data about the newly created object, in the return value of the ADIF export call. This data can be mapped to Alfabet object class properties in the new field **Response Class Mapping** in the AzureDevOpsExport\_Assistant. The selected object class property will be updated in Alfabet automatically during the export process and it is no longer required to update it with an additional ADIF import.
- Display of Alfabet views in Confluence® has been enhanced to show the complete view without scrollbars if the screen size when rendering the view is big enough.
- The folder **A2AIntegration** has been removed from the Alfabet installation folders. It was part of a deprecated version of the ARIS Alfabet Interoperability Interface and is no longer used.
- The Jira import has been modified so that if EPIC Link values are available for an issue, they will be added as a new row in the temporary table IssueCustomFields.

#### Enhancements and Changes to the Alfabet Data Integration Framework (ADIF)

- The status of ADIF jobs will be set to EXECUTION\_FORECEFULLY\_TERMINATED and the log files will include respective error messages if ADIF job execution fails because of one of the following:
  - The thread for execution of the ADIF job has been forcefully terminated.
  - The Alfabet Server has been forcefully terminated.
  - The Alfabet Server was shut down via the **Shut Down** menu options in the Alfabet Server application. New ADIF jobs cannot be started during the shut-down period scheduled for the Alfabet Server.

- The following enhancements have been made to the ADIF Jobs Administration (ADMIN\_AdifJobs) functionality:
  - ADIF schemes with mandatory parameters cannot be executed via the ADIF Jobs
     Administration functionality. If an ADIF scheme configuration includes mandatory parameters, the execution option in the ADIF Jobs Administration functionality will be deactivated.
  - Asynchronous ADIF export has been enhanced and the editor to define an export file will only be displayed if the ADIF export targets a file.
  - Synchronous execution of ADIF jobs is no longer supported. The buttons for synchronous execution of ADIF jobs in the **ADIF Job Administration** (ADMIN\_AdifJobs) functionality have been removed. The success of the asynchronously-executed ADIF jobs is returned via the event feedback message capability.
- A number of changes have also been made to ADIF in the context of the new platform architecture.
   For information about these changes, see the section New Platform Architecture Based on Event Queuing.

# Additional Changes to Solution Configuration Capabilities in Alfabet Expand

- A new **Cancel Button Hint** attribute is available for the configuration of a wizard step. The defined hint will replace the standard hint " **Click here to exit without saving data.** which is displayed for the **Close (X)** button in the upper-right corner of the editor/wizard. The new attribute allows a differentiated hint to be specified if, for example, an editor is embedded in a wizard step and the **Tab** as **Separate Step** attribute is set to True and therefore only the data on the current wizard step would be lost if the wizard were to be closed via the **Close (X)** button.
- If an Edit Search interface element is embedded in an editor whereby the Edit Search interface element is specified as a master control and a Combo Box interface element is specified as dependent on the master control, the preselection in the Combo Box interface control will be correctly set when the editor is reopened.
- A new Send Test Mail functionality has been added to text templates configured in the
  configuration tool Alfabet Expand. If selected, the email will be registered in the ALFA\_EMAIL\_BUS
  database table. Once the Alfabet Server is running, the email will be sent to the user configured for
  the test email in the server alias settings or the Alfabet Configuration Overrides functionality.
- The visibility of the Add Existing<Object Class> options available in the Affected Architecture (VMND\_ArchitectureElements page view for a value node can be controlled in the Customization Editor available for the view. For each object class mapped to a value node stereotype via the XML attribute MappingClasses in the XML object ValueManager, an entry will be added below the New menu entry in the Customization Editor. The solution designer may exclude any of the menu options from the user profile as well as specify a custom selector for the option.
- The XML object DemandManager has been extended to configure the permissibility of demand stereotypes for demand group stereotypes. A new XML element ClassAccess should be added for each demand group stereotype for which one or more demand stereotypes are permissible. The child XML attribute ClassName must include the name of the demand group stereotype and the XML attribute Stereotypes must include a comma-separated list of the permissible demand stereotypes that have been defined at the root node of the XML element Stereotype.

- The XML object PolicyManager has been extended to configure the permissibility of policy stereotypes for policy group stereotypes. A new XML element ClassAccess should be added for each policy group stereotype for which one or more policy stereotypes are permissible. The child XML attribute ClassName must include the name of the policy group stereotype and the XML attribute Stereotypes must include a comma-separated list of the permissible policy stereotypes that have been defined at the root node of the XML element Stereotype.
- The XML object <code>SolutionOptions</code> has been amended to include a new XML attribute <code>SetDefaultStatusOnCreateAsCopy</code>. If set to "true", the default status configured for an object class in the XML attribute <code>DefaultStatus</code> in the XML object <code>ReleaseStatusDefs</code> will be used when a new copy, version, or variant is created for an object of that object class. If set to "false", the status of the base object will be copied to the new object. The default setting is "false" to ensure backward compatibility. The XML attribute <code>SetDefaultStatusOnCreateAsCopy</code> is relevant for the following classes: <code>Application</code>, <code>Component</code>, <code>ComponentTest</code>, <code>Contract</code>, <code>Device</code>, <code>ICTObject</code>, <code>InformationFlow</code>, <code>ITPolicy</code>, <code>ServiceProduct</code>, <code>Stack</code>, <code>StandardPlatform</code>, <code>VendorProduct</code> as well as the various classes available for integration solution database connections.
- The XML attribute UseSourceQueryFromReport is obsolete and has been removed from the XML XSD definition of the XML object SolutionOptions.
- The XML attribute AnimatedVisualizations has been added to the XML object
  UserPersonalSettings. If set to "true", the new animated visualization capability will be
  available in the Alfabet user interface the first time a user accesses the Alfabet user interface. The
  user can change the setting in the new Enable Animations of Visualizations checkbox available in
  the User Settings editor.

# What's New in Alfabet 10.9 for System Administrators

The following is relevant to system administrators:

- New Platform Architecture Based on Event Queuing.
- Revised Handling of Email Notifications
- Advanced Options for Index Defragmentation
- Changes to the Embedding of Third-Party Components
- Other Changes to the Alias Configuration of the Alfabet Components
- Other Changes to Database Maintenance Options
- Additional Changes to System Administration

# **New Platform Architecture Based on Event Queuing**

The platform architecture of the Alfabet components has been changed to prepare for the transition to.NET Core..NET Core does not support.NET remoting and all processes that were designed to work via a remote alias configuration were changed to be executed based on event queuing in the ALFA EVENT BUS

database table of the Alfabet database. The queued events are then executed via an Alfabet Server connected to the Alfabet database that is independent of the Alfabet Web Application. Event queuing also enhances performance based on a sophisticated queueing concept for pending jobs and parallel job execution via multi-threading.

This feature changes the way the following functionalities are executed:

- ADIF execution including ADIF execution in the context of integration solutions
- Update of workflow templates
- Data anonymization
- Update of the meta-model
- Automated translation
- Ouestionnaire initiation
- Execution of batch console utilities
- Asynchronous import/export of data capture templates
- Al-enabled data quality analysis

While most of the changes are not visible to the user, the following involves a change in the handling of the functionalities:

- Enhanced scheduling capabilities: With the new event queuing, a sophisticated approach to scheduling is implemented and events are now executed simultaneously via multiple parallel threads. Furthermore, queued events are no longer executed strictly in the incoming order. The following is relevant for the scheduling of the event processing.
  - Events are only processed in parallel if they do not target the same database tables which
    may cause a change in the order of execution. If the next event due for execution targets the
    same database table as a currently executed event, the execution will be postponed and a
    different event targeting distinct database tables will be executed first. The following has
    been implemented for this functionality:
    - A **Table Usage** sub-node has been added to ADIF schemes and event templates. All ADIF import schemes are scanned automatically for database table usage. A node is added to the **Table Usage** tree for each database table detected to be involved in the import. This also includes temporary tables. Each database table node in the **Table Usage** tree has a **Usage Mode** attribute which is set to Write if the ADIF import changes data in the database table or Read if the ADIF import only reads data from the table. Event templates scheduling ADIF execution inherit the **Table Usage** analysis from the underlying ADIF scheme. On migration to Alfabet 10.9 existing event templates for ADIF execution will automatically be updated with the **Table Usage** analysis from the underlying ADIF scheme.
    - The **Table Usage** analysis is editable for customer-defined ADIF schemes and event templates. Customers are encouraged to review the results of the **Table Usage** analysis of their ADIF jobs and make manual adjustments where appropriate.
    - For events scheduling ADIF jobs, the **Table Usage** defined in the event template supersedes the **Table Usage** definition in the ADIF scheme. Customers can add missing information to the **Table Usage** tree. (For example, if a database table is

changed by mechanisms other than ADIF import or if the automatic analysis of the ADIF import was not complete.) The **Usage Mode** attribute of the database table nodes in the **Table Usage** tree can also be changed.

- A new Priority attribute has been added to ADIF schemes and event templates. Permissible values are LOWEST, NORMAL, or HIGHEST. During ADIF execution, the Alfabet Server processes ADIF jobs with a high priority first and ADIF jobs with a low priority last. If two ADIF jobs have the same priority, the processing order is defined by the scheduling time and the Table Usage concept. New ADIF schemes will have a NORMAL priority. On migration to Alfabet 10.9.0, the attribute will be set to UNSPECIFIED for existing ADIF schemes and the execution priority equals NORMAL.
- The new **Exclusive Database Access** attribute available for ADIF schemes and event templates can be set to True to inhibit the parallel execution of events as long as the event based on this ADIF scheme or event is executed. The attribute is set to False for new ADIF schemes and for existing ADIF schemes on migration to Alfabet 10.9.0.
- Job schedules for the execution of ADIF jobs will inherit the **Table Usage** definition and the value of the **Priority** attribute from the ADIF scheme. For all other job schedules, the **Priority** attribute will be set to NORMAL and will be displayed in the new ReadOnly **Priority** attribute available in the **Basic Data** tab of the **Job Schedule** editor.
- The **Table Usage** definition for job schedules executing batch processes, events scheduled to execute batch utilities, and events scheduled to execute standard Alfabet functionalities such as data capture templates, questionnaires, and automated translation is defined by Software AG and cannot be changed. For asynchronously-executed data capture template import, the table usage is defined dynamically to take the content of the currently imported data capture template into account.
- The Table Usage definition for job schedules executing batch processes, events scheduled to execute batch utilities, and events scheduled to execute standard functionalities such as data capture templates, questionnaires, and automated translation is defined by and cannot be changed. For asynchronously executed data capture template import, the table usage is defined dynamically to take the content of the currently imported or exported data capture template into account.
- **Database-centered time management**: The relevant time for executing events has changed from application to web server time to database server time. This applies to events scheduled in the scope of the following functionalities.
  - Jobs scheduled via the Job Schedule functionality.
  - Import and export of data capture templates in the context of the Data Capture Template functionality.
  - Events generating questionnaire indicators for the questionnaire capability.
  - Events triggered via the event management capability.
- New driver for Microsoft SQL database connectivity: A new driver is used for the connection to Microsoft® SQL Server®. This driver is optimized for the new platform architecture. The new database driver is available in parallel to the old driver used in previous versions. In the Database Settings tab of the server alias configuration, the driver can be selected in the Database Driver Type attribute. Microsoft SQL Client must be selected to use the new driver. For reasons of backward compatibility, Microsoft.NET Client is selected for existing server alias configurations.

A higher connection count setting: The Database Connection Count attribute has been moved
from the Server Settings tab to the Database Settings tab of the server alias configuration for the
Alfabet Server. The default value has been changed to 50, which is the minimum requirement.
Please note that the Database Connection Count attribute will be reset to 50 when the editor is
closed if a value lower than 50 is defined.

#### Additional changes to the execution of ADIF jobs:

- In the ALFA\_ADIF\_SESSION database table, the event triggering the creation of the ADIF job is referenced in the new EVENT column. The URL of the Alfabet Server executing the ADIF job is written to the new EXECUTING SERVER database column.
- Synchronous execution of ADIF jobs is no longer supported and the buttons for synchronous
  execution of ADIF jobs in the ADIF Job Administration (ADMIN\_AdifJobs) functionality
  have been removed. The success of the asynchronously-executed ADIF jobs will be returned
  via the event feedback message capability.
- A new -synchronously command line parameter is available for the ADIF console application ADIF\_Console.exe. When ADIF\_Console.exe is started with a server alias that is configured to use the new event queueing capability and the -synchronously command line parameter is set, the ADIF\_Console.exe will continuously run and check the event queue for the status of the scheduled event until the event processing is complete, upon which it will return the status of the finished ADIF job execution. This feature allows multiple ADIF jobs to be triggered via a single Windows batch job that starts the next ADIF execution only after success of the previous one.

#### Additional changes to the Job Schedule functionality

- Job schedules can be defined without a schedule definition and configured to be executed
  each time a job for a master job schedule is executed. This simulates the execution behavior
  via Windows® batch jobs whereby jobs are configured to be executed in a given order. The
  following configuration is required:
  - When defining the master job schedule, the dependent job schedules that shall be
    executed on completion of jobs for the master job schedule must be defined via the
    new On Completion Jobs attribute available in the Execution Info tab in the Job
    Schedule editor.
  - The new Indirectly Triggered checkbox in the Basic Data tab may be selected in the Job Schedule editor of the dependent job schedule. A schedule definition must not be defined in the Schedule tab for the dependent job schedule.

### Additional changes to event management

• Self-reflective events will be directly scheduled via the event table and will no longer be processed via a RESTful service call.

In Alfabet 10.9, both the remote processing as well as event queuing are supported to ensure backward compatibility. In the **Application Server** tab of the server alias, two new mutually exclusive radio button options have been added for this purpose. The settings in the **Application Server** tab must be identical in all server alias configurations of all Alfabet components including batch utilities. It is not possible to connect to an Alfabet Server configured for event queuing via a remote alias.

The following settings are available:

- If the Use Event Queue for All Jobs option is selected, the new method to schedule server
  processes via event queuing will be implemented. All other settings for remote processing in the
  Application Server tab will be ignored. The Use Event Queue for All Jobs option is the
  recommended option and must be actively selected for existing server alias configurations to
  change to the new processing mode.
- If the **Use Application Server and Net Remoting Service** option is selected, the existing method of direct service calls between the Alfabet Web Application and Alfabet Server will be implemented.

# **Revised Handling of Email Notifications**

How emails are triggered, sent, and managed has been enhanced and streamlined for all emails triggered in the context of various Alfabet functionalities. The following changes have been made:

- The new database table ALFA\_EMAIL\_BUS has been added to schedule emails for execution. If a user triggers an email via the Alfabet user interface, the information required to process the email execution is stored in the ALFA\_EMAIL\_BUS table.
- Emails are sent exclusively by a running Alfabet Server connected to the same Alfabet database as the Alfabet Web Application. The Alfabet Server scans the ALFA\_EMAIL\_BUS table for emails that are pending and sends the emails via the SMTP server configured in the server alias of the Alfabet Server. The status of the email in the ALFA\_EMAIL\_BUS table is updated according to the execution status. The execution will fail if the timeout to send emails has been exceeded for three consecutive attempts to send out the email.
- Message logging in the Email Message Log (ADMIN\_MessageLogging) functionality is available for all emails. The information displayed in the Email Message Log functionality is read from the ALFA\_EMAIL\_BUS database table instead of the ALFA\_EMAIL\_MESSAGE\_LOG database table. The Email Message Log view has been modified and provides information about all emails sent via the Alfabet functionalities. The filter fields and content in the dataset has been revised to display the relevant data stored in ALFA\_EMAIL\_BUS database table.
- The new **Alfabet Configuration Overrides** functionality allows settings to be specified that override server configurations. The **Alfabet Configuration Overrides** functionality allows solution designers that do not have access to the Alfabet Administrator and need to test a configuration in which emails are triggered to override the test email account and sender email address definitions made in the server alias configuration of the Alfabet Web Application. The email settings defined via the user interface will override settings made in the server alias configuration of the Alfabet Web Application. Different test scenarios performed by various testers might require a different test email account specification. Therefore, multiple override definitions can be created and activated or deactivated as needed.
- A new Send Test Mail functionality has been added to text templates configured in the
  configuration tool Alfabet Expand. If selected, the email will be registered in the ALFA\_EMAIL\_BUS
  database table. Once the Alfabet Server is running, the email will be sent to the user configured for
  the test email in the server alias settings or the Alfabet Configuration Overrides functionality.

The following is deprecated and no longer available or used:

• The ALFA\_EMAIL\_MESSAGE\_LOG database table is no longer used. It will remain in the database to provide a history of emails sent prior to Alfabet release 10.9.0.

- The Alfabet Web Application is no longer able to trigger emails to be sent and the definition of an SMTP server in the server alias of an Alfabet Web Application will be ignored.
- In the **Application Server** tab of the server alias editor, the **Use Server to Send Emails** field has been removed. A direct connection of the Alfabet Web Application to the Alfabet Server via a remote alias is no longer required.
- Activation of email logging has been removed in the following configurations:
  - Activation of email logging for assignments via the XML attribute
     AssignmentMessageLogging is deprecated and has been removed from the XML object

     SolutionOptions in the configuration tool Alfabet Expand.
  - Activation of email logging for monitors via Monitors > Activate Message Logging in the
    Monitors functionality and Notification Monitors functionality in the Alfabet user interface
    is deprecated and no longer available. The Is Active column has been removed from the
    views
  - Activation of email logging for workflows via the Message Logging attribute has been removed from workflow templates and workflow steps in the configuration tool Alfabet Expand.

# **Advanced Options for Index Defragmentation**

Adding data to and deleting data from database tables leads to database index fragmentation which has a negative impact on performance. Until now, index defragmentation in the Alfabet database was exclusively performed by running a command line tool for a defined number of object class tables. In Alfabet 10.9, enhanced index defragmentation options have been implemented:

- Index defragmentation can be executed automatically each time the Alfabet Server is started or
  when the meta-model is updated via AMM files. The new Rebuild fragmented services on server
  start attribute in the Database Settings > Details tab of the server alias configuration needs to be
  enabled.
- Execution of ADIF import can lead to a high database table index defragmentation level when the batch import of data to a database table is performed. ADIF import schemes have been amended with an analysis of which database tables are read or changed when the ADIF scheme is executed. The analysis is added in the new **Table Usage** sub-node of the ADIF scheme. The **Rebuild Indices on Completion** attribute is available for each database table that the ADIF scheme will write data to. If the attribute is set to True for a database table, the index of this database table will be re-built automatically as part of the ADIF import.
- Event tables triggering ADIF import will inherit the **Table Usage** analysis from the defined ADIF import scheme. The **Rebuild Indices on Completion** attribute is editable in the event template to adapt the setting to the current use case.

# Changes to the Embedding of Third-Party Components

 The embedded third-party component Syncfusion.NET Software has been updated to a licensed version of Syncfusion.NET Software, Version 18.4460.0.30. Copyright © 2001-2021 Syncfusion Inc. All Rights Reserved.

- The embedded third-party components Xceed ZIP for.NET and XCeed Real-Time ZIP for.NET
   Software have been updated to licensed versions of Xceed ZIP for.NET and XCeed Real-Time ZIP
   for.NET Software, Version 6.9.21072.16380, Copyright © 2021 Xceed Software Inc. All rights
   reserved. "Xceed" is a trademark of Xceed Software Inc.
- The embedded third-party component Devart Oracle Data Access Components has been updated to a licensed version of Devart Oracle Data Access Components 9.14.1204, Copyright © 2006 - 2021 Devart. All rights reserved.
- The embedded third-party component Devart Data Providers has been updated to a licensed version of Devart Data Providers 5.0.2628, Copyright © 2006 2021 Devart. All rights reserved.
- The embedded third-party component yFilesNet library has been updated to a licensed version of the yFilesNet library version 5.3.0.1, Copyright © 2017-2021 yWorks GmbH. All rights reserved.
- The embedded third-party component Essential Objects has been updated to a licensed version of Essential Objects 21.0.18, Copyright © 2021 Essential Objects, Inc. All Rights Reserved.
- The embedded third-party component Microsoft.OpenApi.Readers has been updated to a licensed version of Microsoft.OpenApi.Readers 1.2.3. Copyright © 2020 Microsoft Corporation. All rights reserved
- A licensed version of the third-party component Microsoft.Bot.Schema 4.12.0. has been embedded in Alfabet. Copyright © 2021 Microsoft Corporation. All rights reserved.
- The embedded third-party component gudusoft General SQL Parser has been updated to a licensed version of gudusoft General SQL Parser, Version 3.3.2.0. Copyright ©2004 - 2021 Gudusoft, Inc. All rights reserved.
- A licensed version of microsoft.aspnet.cors 5.2.7 has been embedded in the software. Copyright ©
   2021 Microsoft Corporation. All rights reserved.
- A licensed version of microsoft.aspnet.webapi.client 5.2.7 has been embedded in the software.
   Copyright © 2021 Microsoft Corporation. All rights reserved.
- A licensed version of microsoft.aspnet.webapi.core 5.2.7 has been embedded in the software.
   Copyright © 2021 Microsoft Corporation. All rights reserved.
- A licensed version of microsoft.web.infrastructure 1.0.0 has been embedded in the software.
   Copyright © 2021 Microsoft Corporation. All rights reserved.
- A licensed version of microsoft.data.sqlclient 2.1.1 has been embedded in the software. Copyright © 2021 Microsoft Corporation. All rights reserved.
- A licensed version of microsoft.data.sqlclient.sni 2.1.1 has been embedded in the software. Copyright
   © 2021 Microsoft Corporation. All rights reserved.
- A licensed version of microsoft.data.sqlclient.sni.runtime 2.0.1 has been embedded in the software.
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#### Other Changes to the Alias Configuration of the Alfabet Components

The new Expand/Administrator Execution Timeout attribute in the Database Settings >
 Command Details tab allows a separate timeout to be defined in the server alias configuration for actions performed on the database via the Alfabet Administrator, Alfabet Expand Web, or Alfabet

Expand Windows. This allows, for example, the timeout to be set to a higher value than the default timeout to cover long running operations like the update of the meta-model via AMM file.

- Server variable definitions in the **Variables** tab of the server alias configuration are typically used to store confidential connection information such as user names and passwords to access external servers for integration solutions. New methods have been implemented to import the server variables either via a RESTful service call or a command line tool. The imported server variable values will be stored encrypted in the alfabetMs.xml configuration file and will also be displayed encrypted in the server alias editor. The same methods available for import of server variable values can be used to read the server alias configuration from the encrypted alfabetMs.xml configuration file. Confidential server variables can be managed via one of the following mechanisms:
  - Two new endpoints have been added to the Alfabet RESTful services. For both endpoints, the new Has Server Variables Editor Access option in the API Access Options field in the REST API tab must be selected in the server alias of the Alfabet Web Application and in the User editor of the user executing the RESTful service call. For both endpoints, the alfabetMS.xml configuration file of the Alfabet components must be available on the client-side.
    - The varlist endpoint returns a list of decrypted server variables in plain text. It is a multi-part service call. The first part of the multi-part service call is a JSON file with the standard fields for user and user profile specification common to all requests to the Alfabet RESTful services. The second part of the service call is the alfabetMS.xml file from which the server variable configuration shall be read.
    - The varupdate endpoint provides a means to add encrypted server variable values to an alfabetMS.xml file. It is a multi-part service call:
      - The first part of the multi-part service call is a JSON file. It must include both the standard fields for user and user profile specification common to all request to the Alfabet RESTful services and the Vars field that consists of an array of server variable names and values:

```
"Vars":
{"variablename":"variablevalue","variablename2":"variablevalue2
"}
```

- The second part of the service call is the <code>alfabetMS.xml</code> file to which new server variables shall be added encrypted. Server variable configuration shall be read. The service call returns the <code>alfabetMS.xml</code> file from the first part with the encrypted server variables from the second part. The <code>alfabetMS.xml</code> must then be stored in the working directory of the Alfabet components.
- The new command line tool AlfaVariablesEditor.exe can be started with the following command line parameters to either read or alter the alfabetMS.xml file specified in the command line. The command line tool is available per default in the Programs folder of the Alfabet installation. It is recommended that the command line tool

  AlfaVariablesEditor.exe is removed from the Programs folder and exclusively made available to persons which are responsible for adding the server variables to the alfabetMS.xml file. The tool must be run in a folder containing the alfabetMS.xml file that shall be changed or read as well as AlfaCore.dll and AlfaCommon.dll files from the Programs folder of the Alfabet installation.
  - To list the encrypted server variables in an alfabetMS.xml configuration file, start the command line tool with:

```
AlfaVariablesEditor.exe -list <Path to the AlfabetMS.xml configuration file>
```

• To add server variables encrypted to an alfabetMS.xml configuration file, start the command line tool with:

```
AlfaVariablesEditor.exe -update <Path to the AlfabetMS.xml configuration file> -<variable name> <plain text variable name>
```

Multiple variables can be defined with one command. To clear a value for a variable, specify: -<variable name> null

# Other Changes to Database Maintenance Options

- If two configuration objects with names that only differed in the use of upper- and lower-case were uploaded from a case-sensitive database to an AMM file, a unique key violation occurred if the metamodel in a case-insensitive database was updated with the AMM file. This has been addressed and a case-sensitivity check has been implemented for the update of the meta-model with customer-defined AMM files. The case-sensitivity setting from the collation of the source database is stored in the AMM file. Update of the meta-model with the AMM file will fail if the case-sensitivity setting in the AMM file differs from the case-sensitivity setting of the target database. AMM files delivered by Software AG for upgrade to a new Alfabet release will work on any target database independent of the case-sensitivity settings.
- A check for configuration and default language has been included in the update of the meta-model
  with AMM files that are configured to replace the culture configuration of the target database. The
  primary culture (en-US), the default culture, and the configuration culture will not be changed. Any
  settings in the AMM file about these culture will be ignored.

#### Additional Changes to System Administration

• The following code has been added to the XML element customHeaders in the web.config file delivered with the Alfabet Web Application. This entry furthers protection of the Alfabet Web Application against cross-site scripting attacks as it prevents content not originating from the Alfabet Web Application to be loaded via calls to the Alfabet Web Application.

```
<add name="Content-Security-Policy" value="default-src'self' 'unsafe-
eval' 'unsafe-inline' img-src'self' data:; " />
```

User authentication and authorization via synchronization with an external LDAP server will be
logged if central logging is activated in the server alias of an Alfabet component and the **UserLogon**option is defined to be logged in the **Server Settings** > **Logging Details** tab. This includes LDAP
authentication, LDAP authorization, and search for a user in LDAP. The respective messages all
begin with LDAP.

# Issues Resolved with Alfabet 10.9

The following fixed issues are available:

- Resolved End User Issues
- Resolved Solution Configuration Issues
- Resolved System Administration Issues
- Resolved Empower Issues
- Resolved Brainstorm Issues

#### **Resolved End User Issues**

- The **Delete** button in the **Redefining Policies** page view was erroneously disabled. This has been corrected.
- The time bar in certain page views with Gantt charts was displayed with a transparent color so that the time bar was not visible. This issue has been corrected.
- Rendering in Gantt charts was distorted so that the rows in the dataset did not correspond to the rows of objects listed in the Gantt display. This issue has been corrected.
- It was not possible to detach a business process from the X-axis of the matrix in the Business
   Support Map page view of a master plan map. This issue has been corrected.
- An error message was displayed in the **Technical Platform Elements** page view when the sort order
  of columns was changed.
- A workflow template that was selected in the Workflow Templates filter in the Workflow
   Administration functionality could not be deselected in the filter field. This issue has been resolved.
- If multiple workflows were selected for a job schedule, only the first workflow template was used to execute the job schedule. This issue has been corrected.
- The Risk Relevance Questionnaire report did not display any questions in the dataset if the risk
  objects were associated with objects based on object class stereotypes. This issue has been
  addressed and the relevant object class stereotype can be selected in the Class Name field in the
  Class-Based Risk Management Template editor used to create the risk management template for
  a class.
- The context-sensitive help for the **User Settings** editor was not available. This has been corrected.
- If a user currently viewing the object cockpit of an object used the global search field in the Alfabet toolbar to navigate to a configured report, the configured report was opened with the object's caption instead of displaying the caption of the configured report. This issue has been resolved.
- An error occurred setting the filter of configured affinity matrices if the option to join adjacent equal objects was selected. This issue has been resolved.
- Execution of reports defined for the AI-Enabled Data Quality Analysis functionality failed for the classes Contract and Service Product. This issue has been resolved.

- The SVG files generated when exporting a configured sunray diagram report to SVG format could not be opened in Microsoft® Visio. This issue has been resolved.
- In the integration with Microsoft® Teams, outgoing webhooks were not working because of an issue in the access permission settings. This issue has been corrected and outgoing webhooks can be implemented to enable defined users in MS Teams to paste express views from Alfabet to collaboration posts in MS Teams.

#### **Resolved Solution Configuration Issues**

- In some configured graphic reports, the definition of a configured report as navigation target from a node in the configured report was ignored. Double-clicking a node in the configured report opened the object cockpit of the object specified in the link definition instead of the configured report. This issue has been resolved.
- The publication failed if a configured report embedded in a publication could not be executed because of a missing mandatory filter field. This issue has been resolved and instead of blocking the complete publication, the missing mandatory filter entry will only block the rendering of the configured report embedded in the publication. An error message providing information about the missing mandatory filter field setting will be added to the publication where the configured report would have been displayed.
- Date formats for date and datetime values in a configured report used in an ADIF export scheme relevant for Jira® integration will be automatically formatted to ISO 8601 format before being exported to Jira.
- An error occurred when the ADIF job CreateQuestionnaire was executed. To resolve this issue the Size attribute of the properties CREATION\_USER and LAST\_UPDATE\_USER in the class QuestionaryIndicator has been changed from 16 to 128.
- If filter settings for the selection of a property of the type ReferenceArray were stored in the UserGlobalData object class, the report execution failed if the property of the type ReferenceArray had more than 1000 references. This issue has been resolved.
- Properties of the type ReferenceArray specified for the UserGlobalData object class were not
  properly updated based on the selected filter settings in a configured report. This issue has been
  corrected.
- The handling of file names for a file-based ADIF import was no longer case-insensitive. This issue has been resolved and file identification is case-insensitive again.
- Errors due to connectivity problems occurred when executing ADIF jobs or events via the Alfabet Server if the Alfabet database was run on an Alwayson Microsoft® SQL Server®. This issue has been resolved.
- Parameters defined in event templates were not correctly handed over to the RESTful service call for execution of the event. This issue has been resolved.
- The layout of group boxes in the filter section for configured reports was not correctly rendered when using Google Chrome® 86 or higher. This issue has been resolved.
- An error occurred in the configuration of a custom button when a graphic view for the View
  attribute if the Navigate value was selected for the Operation attribute. This error has been
  corrected.

- Events starting workflows failed if the workflow was not configured to start automatically. This issue has been resolved.
- When configuring a custom wizard in Alfabet Expand Web, closing the Customization Editor via the
  OK or Cancel button reloaded the home page of Alfabet Expand and not the currently configured
  wizard that was opened via the Configure Wizard functionality. This issue has been corrected.
- In Alfabet Expand Web, an error occurred when the solution designer attempted to add an ADIF scheme to an event template or alter variable settings in an event template for ADIF execution. This issue has been resolved.
- If a condition was deleted in Alfabet Expand, the condition's references to object cockpits and other configuration objects were not deleted. This issue has been resolved.
- Changes to the XML object SearchManager required a restart of the web server to become valid for
  users working in the Alfabet web interface. This issue has been resolved and the changes now
  trigger re-load of the meta-model as other changes in the meta-model configuration do.
- GUI schemes could not be included in AMM files. This issue has been resolved.
- In Alfabet Expand Web, issues occurred using the functionality to search for the next result in an explorer using the CTRL+F key combination. This issue has been resolved.

#### **Resolved System Administration Issues**

- If an AMM file was configured to save cultures and to replace the existing configuration, the culture configuration of the target database was not replaced. This issue has been resolved.
- If Windows® Event Logging had been activated for the logging functionality configured in the server alias of an Alfabet component, error messages were logged in the Windows Event Log even if this was not activated in the **Logging Details** tab of the server alias. This issue has been resolved.
- The selection of the Change Password checkbox in the User editor in Alfabet Administrator was not
  persistent and no longer selected the next time the editor was opened. This issue has been resolved.
- Execution of Alfabet batch utilities created images in the temp folder but never removed these images which potentially caused large amounts of data in the temp folder. This issue has been resolved and images are no longer generated in the temp folder during execution of batch jobs.
- In some rare cases, a key violation error for the ALFA\_ADIF\_SESSION\_DETAIL database table occurred during export of Alfabet data to ServiceNow when executed with verbose logging. This issue has been resolved.

#### **Resolved Empower Issues**

- 5432028
- 5423625
- 5426937
- 5432732

- 5433771
- 5434484
- 5434473
- 5435396
- 5435528
- 5435671
- 5435909
- 5436897
- 5437029
- 5438165
- 5438484
- 5439016
- 5440004
- 5440475
- 5441471

#### **Resolved Brainstorm Issues**

- 05825
- 08810
- 08811
- 08826

# Migration Issues Relevant to Alfabet 10.9

An appendix is available that documents the changes made to object classes and their properties between Alfabet release 10.7 and 10.9. The following information is available in the section *Meta-Model Changes Between Alfabet Releases 10.7 and 10.9* of these release notes:

The following information is relevant for the migration from Alfabet release 10.7.X to Alfabet release 10.9:

• Microsoft® has discontinued support of Microsoft® Azure® Translate Text v 2. As a result, interoperability with Azure translations services has been updated in Alfabet to address Microsoft® Azure® Translate Text v. 3. In order to continue using translation services based on Azure in Alfabet 10.9, the XML attribute ServiceType="AzureCognitive" must be added to the XML element TranslationServiceInfo available in the XML object AlfaTranslationServicesConfig.

- The Jira® attribute accountID has replaced the Jira attributes username and userkey for JIRA cloud instances. To ensure integration of Alfabet with a Jira cloud instance, a new XML attribute UserIdentifier has been added to the XML element DataConnection in the XML object JiraIntegrationConfig. The XML UserIdentifer should be set to AccountID for a Jira cloud deployment and to UserName for an incumbent on-premise deployment. The values for the attribute AccountID will be stored in the relevant ADIF temp tables during import. If your enterprise implements Jira integration, please note the information below about necessary requirements to update the configuration of the XML object JiraIntegrationConfig:
  - 1) Copy the content of the **XML Definition** attribute of the XML object JIRAIntegrationConfig available in Alfabet Expand to a text editor.
  - 2) Update Alfabet 10.6.2 with the new AMM file provided with the patch release.
  - 3) Paste the text in the text editor to the **XML Definition** attribute of the XML object <code>JIRAIntegrationConfig</code> to the updated Alfabet instance.
  - 4) Add the XML attribute UserIdentifer to the XML element DataConnection. For a cloud deployment, set the XML attribute UserIdentifer to AccountID. For an on-premise deployment, set the XML attribute UserIdentifer to UserName.

#### Example for cloud deployment:

```
<DataConnection
Name="JIRAInstance1"
MajorVersion="7"
ServerUrl="$JiraServer"
UserName="$JiraUser"
Password="$JiraPassword"
PageSize="-1"
UserIdentifier='AccountID'>
<IssueRank Enabled="true" RankFieldId="10005"/>
</DataConnection>
```

#### Example for on-premise deployment:

```
<DataConnection
Name="JIRAInstance1"
MajorVersion="7"
ServerUrl="$JiraServer"
UserName="$JiraUser"
Password="$JiraPassword"
PageSize="-1"
UserIdentifier='UserName'>
<IssueRank Enabled="true" RankFieldId="10005"/>
</DataConnection>
```

#### Alfabet Documentation Available with Alfabet 10.9

Please note the following changes to the documentation:

- The chapter Configuring Integration Solutions has been removed from the reference manual Configuring Alfabet with Alfabet Expand and is now available in the new reference manual API Integration with Third-Party Components.
- The reference manual Configuring Alfabet with Alfabet Expand Appendix has been revised. With the introduction of the new feature described in the section New Relational Representation of the Presentation Model, solution administrators can configure reports about the current configuration of the presentation model. All data that can be queried via this capability has been removed from the Configuring Alfabet with Alfabet Expand Appendix.

The following English language documentation has been updated and is available for Alfabet10.9:

- Alfabet Expand Online Help
- Alfabet Online Help
- ADIF Online Help for Alfabet meta-model
- Alfabet Reference Manuals:
  - Alfabet Glossary
  - Getting Started with Alfabet
  - Enterprise Architecture Management
  - Portfolio Management Basic
  - Portfolio Management Advanced
  - Portfolio Management Complete
  - IT Planning Basic
  - IT Governance, Risk and Compliance
  - Designing IT Landscape Diagrams in Alfabet
  - System Administration
  - Configuring Alfabet with Alfabet Expand
  - Configuring Alfabet with Alfabet Expand Appendix
  - API Integration with Third-Party Components ( New )
  - User and Solution Administration:
  - Configuring Evaluation and Reference Data in Alfabet
  - Designing Guide Pages for Alfabet
  - Web Services for Alfabet
  - Alfabet Data Integration Framework
  - Alfabet Meta-Model

- ARIS Alfabet Interoperability
- Alfabet RESTful API
- Alfabet CentraSite Interoperability
- The following reference manuals are structured according to the current go-to-market capability packages provided by Software AG. New reference manuals providing a methodological approach are being written and will be completed and published in an upcoming release. Until then, the following interim reference manuals are available that list each capability available in the package as well as the object classes assigned to the capability and the views available in the standard object profile of each object class.
  - IT Planning Advanced Reference Manual
  - IT Planning Complete Reference Manual
- Examples of Configured Reports Available in the Showcase Database

### **Service and Support**

Should you have any questions or require additional information about Alfabet, please contact Software AG Support.

Please open a ticket in the Empower eService for any service request as well as all non-standard support incidents such as training requests, scripting, or data integration:

#### https://empower.softwareag.com

When you submit a ticket for a service request, you should include the main release number and patch version of your Alfabet product. This information can be accessed by clicking **Help < About Alfabet**. Tickets will be recorded and transferred to the relevant team.

Empower eService also includes:

- tracking ticket statuses
- local telephone numbers for support.

In addition to the local support telephone numbers, you can use the following toll-free number:

+800 2747 4357

## Meta-Model Changes Between Alfabet Releases 10.7 and 10.9

This section provides an overview of changes made to object classes and their properties as well as the visibility of new views, button interactions, and editors between Alfabet Release 10.7 and 10.9. The following information is available:

- New Object Classes Added to the Meta-Model
- Object Classes Removed from the Meta-Model
- Object Classes with a Changed Technical Name
- Object Classes with a Changed Caption
- New Properties Added to Existing Object Classes
- Properties Removed from Existing Object Classes
- Properties with a Changed Technical Name
- Properties with a Changed Caption
- Properties with a Changed Property Type
- New Functionalities Added to the Meta-Model
- Functionalities Removed from the Meta-Model
- Changes to Standard Editors
- Views with Changes to Menu Buttons
- Views Added to Standard Object Profiles
- Views Removed from Standard Object Profiles

# New Object Classes Added to the Meta-Model

Name	Caption	Technical Name
AdHocMilestone	Ad-Hoc Milestone	ADHOCMILESTONE
ALFA_CLUSTERING_RECOMMENDATION	Clustering Recommendation	ALFA_CLUSTERING_RECOMMENDATION
ALFA_PM_COCKPIT_INFO	Alfabet Presentation Model Cockpit Information	ALFA_PM_COCKPIT_INFO
ALFA_PM_COCKPITDETAIL_INFO	Alfabet Presentation Model Cockpit Detail Information	ALFA_PM_COCKPITDETAIL_INFO
ALFA_PM_CONDITION_INFO	Alfabet Presentation Model Condition Information	ALFA_PM_CONDITION_INFO
ALFA_PM_EDITOR_INFO	Alfabet Presentation Model Editor Information	ALFA_PM_EDITOR_INFO
ALFA_PM_OBJECTVIEW_INFO	Alfabet Presentation Model Object View Information	ALFA_PM_OBJECTVIEW_INFO
ALFA_PM_OBJECTVIEWDETAIL_INFO	Alfabet Presentation Model Object View Detail Information	ALFA_PM_OBJECTVIEWDETAIL_INFO
ALFA_PM_PAGEVIEW_INFO	Alfabet Presentation Model Page View Information	ALFA_PM_PAGEVIEW_INFO
ALFA_PM_WIZARD_INFO	Alfabet Presentation Model Wizard Information	ALFA_PM_WIZARD_INFO
ALFA_PM_WIZARDSTEP_INFO	Alfabet Presentation Model Wizard Step Information	ALFA_PM_WIZARDSTEP_INFO
ALFA_PM_WORKSPACE_INFO	Alfabet Presentation Model Workspace Information	ALFA_PM_WORKSPACE_INFO
ALFA_TABLE_USAGE	ALFA_TABLE_USAGE	ALFA_TABLE_USAGE

Name Caption		Technical Name	
ContextComment	Context Comment	CONTEXTCOMMENT	

### Object Classes Removed from the Meta-Model

None

#### **Object Classes with a Changed Technical Name**

None

#### **Object Classes with a Changed Caption**

Class Name	Class Technical Name	Old Class Caption	New Class Caption
BusinessRoleArch	BUSINESSROLEARCH	Business Role Architecture Connection	Business Role Relationship

# New Properties Added to Existing Object Classes

Class Name	Class Caption	Property Name	Property Caption	Property Technical Name
ALFA_DATACAPTURETEMPLATE	Data Capture Template	DCT_ARGS		DCT_ARGS
ALFA_DATACAPTURETEMPLATE	Data Capture Template	BucketProvider		BUCKETPROVIDER
ALFA_DATACAPTURETEMPLATE	Data Capture Template	Currency		CURRENCY
ALFA_DATACAPTURETEMPLATE	Data Capture Template	MonetaryCodeld		MONETARYCODEID
ALFA_DATACAPTURETEMPLATE	Data Capture Template	BucketStart		BUCKETSTART
ALFA_DATACAPTURETEMPLATE	Data Capture Template	BucketEnd		BUCKETEND
ALFA_DATACAPTURETEMPLATE	Data Capture Template	ExportMonetaryCodeId		EXPORTMONETARYCODEID
ALFA_JOB_SCHEDULE	Alfabet Job Schedule	OnCompleteJobs		ONCOMPLETEJOBS
ALFA_JOB_SCHEDULE	Alfabet Job Schedule	IndirectlyTriggered		INDIRECTLYTRIGGERED
ALFA_JOB_SCHEDULE	Alfabet Job Schedule	Priority		PRIORITY
ALFA_MM_STEREOTYPE_INFO	Alfabet Meta-Model Class Stereotype Information	ID_PREFIX ID Prefix		ID_PREFIX
ALFA_REPORT	Report	POPULARITY	Popularity	POPULARITY
Person	Person	TeamsUserInternalId		TEAMSUSERINTERNALID

Class Name	Class Caption	Property Name	Property Caption	Property Technical Name	
Project	Project	ScenarioType	Scenario Type	SCENARIOTYPE	

### Properties Removed from Existing Object Classes

Class Name	Class Caption	Property Name	Property Caption	Property TechName
Assignment	Assignment	MessageLogging	Message Logging	MESSAGELOGGING
Workflow	Workflow	MessageLogging	Log Messages	MESSAGELOGGING
WorkflowTemplate	Workflow Template	MessageLogging	Log Messages	MESSAGELOGGING

### **Properties with a Changed Technical Name**

None

### **Properties with a Changed Caption**

Class Name	Class Caption	Property Name	Old Property Caption	New Property Caption
BusinessService	Business Service	Object	Providing/Requesting Object	Providing/Requesting Object Detail

Class Name	Class Caption	Property Name	Old Property Caption	New Property Caption
Question	Question	EnablesFreeFormTextAnswers	Free Form Text Answers	Answers in Free-Form Text
SolutionBusinessService	Solution Business Service	Object	Providing/Requesting Object	Providing/Requesting Object Detail

## **Properties with a Changed Property Type**

Class Name	Class Caption	Property Name	Property Caption	Old Property Type	New Property Type
ALFA_USERLOGIN_DETAIL	User Login Details	TEAMS_TOKEN_SCOPES		String	Text

#### New Functionalities Added to the Meta-Model

Name	Caption
CONF_Override_Settings	Override Alfabet Settings
SRCH_FacetedSearch	Faceted AlfaBot Semantic Search

#### Functionalities Removed from the Meta-Model

Name	Caption
CaptureData	Capture Data

#### **Changes to Standard Editors**

Editor Name	Editor Caption	Control Name	Control Caption	Control Added	Control Re- moved
ALFA_ADIFExport_JS_Editor	Schedule ADIF Export Job	cbIndirectlyTriggered	Indirectly Triggered	X	
ALFA_ADIFExport_JS_Editor	Schedule ADIF Export Job	ePriority	Priority	x	
ALFA_ADIFExport_JS_Editor	Schedule ADIF Export Job	pOnCompletionJobs	On Completion Jobs	X	
ALFA_ADIFImport_JS_Editor	Schedule ADIF Import Job	cbIndirectlyTriggered	Indirectly Triggered	X	
ALFA_ADIFImport_JS_Editor	Schedule ADIF Import Job	ePriority	Priority	X	
ALFA_ADIFImport_JS_Editor	Schedule ADIF Import Job	pOnCompletionJobs	On Completion Jobs	X	
ALFA_FullTextSearchUtil_JS_ Editor	Schedule Full-Text Search Utility Job	cbIndirectlyTriggered	Indirectly Triggered	X	

Editor Name	Editor Caption	Control Name	Control Caption	Control Added	Control Re- moved
ALFA_FullTextSearchUtil_JS_ Editor	Schedule Full-Text Search Utility Job	ePriority	Priority	X	
ALFA_FullTextSearchUtil_JS_ Editor	Schedule Full-Text Search Utility Job	pOnCompletionJobs	On Completion Jobs	x	
ALFA_Publication_JS_Editor	Schedule Publication Job	cbIndirectlyTriggered	Indirectly Triggered	x	
ALFA_Publication_JS_Editor	Schedule Publication Job	ePriority	Priority	x	
ALFA_Publication_JS_Editor	Schedule Publication Job	pOnCompletionJobs	On Completion Jobs	x	
ALFA_RescanColorRules_JS_ Editor	Schedule Rescan Color Rule Import Job	cbIndirectlyTriggered	Indirectly Triggered	X	
ALFA_RescanColorRules_JS_ Editor	Schedule Rescan Color Rule Import Job	ePriority	Priority	x	
ALFA_RescanColorRules_JS_ Editor	Schedule Rescan Color Rule Import Job	pOnCompletionJobs	On Completion Jobs	X	
ALFA_RescanIndicator_JS_ Editor	Schedule Rescan Indicator Job	cbIndirectlyTriggered	Indirectly Triggered	x	
ALFA_RescanIndicator_JS_ Editor	Schedule Rescan Indicator Job	ePriority	Priority	X	

Editor Name	Editor Caption	Control Name	Control Caption	Control Added	Control Re- moved
ALFA_RescanIndicator_JS_ Editor	Schedule Rescan Indicator Job	pOnCompletionJobs	On Completion Jobs	X	
ALFA_USER_SETTINGS_ Editor	User Settings	TabUserSettings		х	
ALFA_USER_SETTINGS_ Editor	User Settings	PageBasicSettings	Basic Settings	х	
ALFA_USER_SETTINGS_ Editor	User Settings	chkEnableAnimations	Enable Animation of Visualizations	x	
ALFA_USER_SETTINGS_ Editor	User Settings	PageWFS_Settings	Workflow Explorer Settings	х	
ALFA_USER_SETTINGS_ Editor	User Settings	chkMoveToNextOpenActivity	Move to Next Open Activity	х	
ALFA_USER_SETTINGS_ Editor	User Settings	chkGroupByWFTemplate Caption	Group by Workflow Template	х	
ALFA_USER_SETTINGS_ Editor	User Settings	cmbSortOrder	Workflow Activity Sort Order	х	
ALFA_Workflow_JS_Editor	Schedule Workflow Job	cbIndirectlyTriggered	Indirectly Triggered	X	
ALFA_Workflow_JS_Editor	Schedule Workflow Job	ePriority	Priority	х	

Editor Name	Editor Caption	Control Name	Control Caption	Control Added	Control Re- moved
ALFA_Workflow_JS_Editor	Schedule Workflow Job	pOnCompletionJobs	On Completion Jobs	X	
AlfaBatchExecutor_JS_Editor	Schedule Batch Executor Job	cbIndirectlyTriggered	Indirectly Triggered	x	
AlfaBatchExecutor_JS_Editor	Schedule Batch Executor Job	ePriority	Priority	x	
AlfaBatchExecutor_JS_Editor	Schedule Batch Executor Job	pOnCompletionJobs	On Completion Jobs	x	
ApptioExport_EntryEditor	Apptio Export Entry	edtApptioTableName	Apptio Table Name	x	
ApptioExport_EntryEditor	Apptio Export Entry	cmboNetChangeReportParam	Net Change Report Parameter	x	
ApptioImport_Assistant	Apptio Import Assistant	rdoImportSource	Import a Table or a Report from Apptio	X	
ApptioImport_Assistant	Apptio Import Assistant	cmbReportComponent	Select Apptio Report Component to Create Entry	X	
ApptioImport_Assistant	Apptio Import Assistant	prtCreateReportImportEntry		x	
AzureDevOpsExport_Filter_ Editor	Azure DevOps Export Filter Assistant	PResMap	Response Class Mapping	X	
BCMSG_Editor	Broadcast Message	BroadcastMessagePage		x	
BCMSG_Editor	Broadcast Message	BasicPage	Basic Data	x	

Editor Name	Editor Caption	Control Name	Control Caption	Control Added	Control Re- moved
BCMSG_Editor	Broadcast Message	UsersPage	Users	X	
BCMSG_Editor	Broadcast Message	poUsers	Users	X	
BCMSG_Editor	Broadcast Message	UserProfilesPage	User Profiles	X	
BCMSG_Editor	Broadcast Message	poUserProfiles	User Profiles	X	
BCMSG_Editor	Broadcast Message	UserGroupsPage	User Groups	X	
BCMSG_Editor	Broadcast Message	poUserGroups	User Groups	X	
ClearADIFSessionContent_ JS_Editor	Schedule ADIF Session Con- tent Clear Job	cbIndirectlyTriggered	Indirectly Triggered	X	
ClearADIFSessionContent_ JS_Editor	Schedule ADIF Session Con- tent Clear Job	ePriority	Priority	X	
ClearADIFSessionContent_ JS_Editor	Schedule ADIF Session Con- tent Clear Job	pOnCompletionJobs	On Completion Jobs	X	
COML_Editor	Local Component	cmbTier	Platform Tier	X	
COML_Editor	Local Component	cmbLayer	Platform Layer	X	
COML_SOL_Editor	Solution Local Component	cmbTier	Platform Tier	X	

Editor Name	Editor Caption	Control Name	Control Caption	Control Added	Control Re- moved
COML_SOL_Editor	Solution Local Component	cmbLayer	Platform Layer	х	
PRJ_Scenario_Editor	Project Scenario	ComboBox2	Scenario Type	x	
QueryInstructionsFilterDlg	Filter Definition	cbxAlignment	Alignment	X	
User_Editor	User	CollaborationDataPage	Collaboration Data	X	
User_Editor	User	TeamsInternalID	MS Teams ID	x	

### Views with Changes to Menu Buttons

View Name	Button Name	Button Caption	Button Menu Item Name	Button Menu Item Caption	Added	Removed
ADMIN_AdifJobs	MenuRun	Run Job Synchro- nously	Run	Execute Job		X
ADMIN_AdifJobs	MenuRun	Run Job Synchro- nously	RunWithVerbose	Execute Job with Verbose Logging		X
ADMIN_AdifJobs	MenuRun	Run Job Synchro- nously	RunWithoutCommit	Non-Persistent Test Job		X
ADMIN_AdifJobs	MenuRun	Run Job Synchro- nously	RunWithoutCommitWith Verbose	Non-Persistent Test Job with Verbose Logging		X

View Name	Button Name	Button Caption	Button Menu Item Name	Button Menu Item Caption	Added	Removed
ADMIN_Message Logging	NavigateTar- getObject					X
COM_UsageRe- port	EditElement				X	
CONF_Notifica- tion Monitors	Menultem2	Monitors	ActivateMessageLogging	Activate Message Logging		×
CONF_Notifica- tion Monitors	Menultem2	Monitors	DeactivateMessageLogging	Deactivate Message Logging		×
ENTRLS_ Milestones	&New	New	CreateAdHocMilestone	Create Ad-Hoc Milestone	x	
ENTRLS_ Milestones	&New	New	Sep3	'-	×	
ENTRLS_ Milestones	&New	New	CommitAdHocMilestones	Commit Ad-Hoc Milestones	×	
ICTO_Compo- nents	&New	New	SepTechnopedia	<b>'-</b>	×	
ICTO_Compo- nents	&New	New	CreateFromTechnopedia	Create Component Based on Technope- dia Software Product	×	

View Name	Button Name	Button Caption	Button Menu Item Name	Button Menu Item Caption	Added	Removed
ICTO_Compo- nents	&New	New	CreateNewVersion WithTechnopedia	Create Component Version Based on Technopedia Software Product	X	
ICTO_Compo- nents	&New	New	CreateFrom Technopedia_HW	Create Component Based on Technopedia Hardware Product	x	
ICTO_Compo- nents	&New	New	CreateNewVersionWithTechno- pedia_HW	Create Component Version Based on Technopedia Hardware Product	x	
ITPLC_Object Policies1	&New	New	AddPolicy	Add Existing Policy	x	
ITPLC_Object Policies1	EditComments	Edit			X	
ITPLC_Object Policies2	&New	New	AddPolicy	Add Existing Policy	X	
ITPLC_Object Policies2	EditComments	Edit			X	
MON_Activity Monitors	Menultem2	Monitors	ActivateMessageLogging	Activate Message Logging		X
MON_Activity Monitors	Menultem2	Monitors	DeactivateMessageLogging	Deactivate Message Logging		X
MON_DateMonitors	Menultem2	Monitors	ActivateMessageLogging	Activate Message Logging		X

View Name	Button Name	Button Caption	Button Menu Item Name	Button Menu Item Caption	Added	Removed
MON_DateMoni- tors	MenuItem2	Monitors	DeactivateMessageLogging	Deactivate Message Logging		X
MON_Inactivity Monitors	MenuItem2	Monitors	ActivateMessageLogging	Activate Message Logging		x
MON_Inactivity Monitors	MenuItem2	Monitors	DeactivateMessageLogging	Deactivate Message Logging		x
ObjectDocu- ments DataSet	OpenShared DocumentsEditor	Share Document			X	
PRJ_Milestones	&New	New	CreateAdHocMilestone	Create Ad-Hoc Milestone	X	
PRJ_Milestones	&New	New	Sep3		×	
PRJ_Milestones	&New	New	CommitAdHocMilestones	Commit Ad-Hoc Milestones	x	
QueryInstruction Toolbar	btnFormatting Instructions	Formatting In- structions	btnSetCellAlignment	SetCellAlignment	X	
USER_AdifJobs	MenuRun	Run Job	Run	Execute ADIF Job		x
USER_AdifJobs	MenuRun	Run Job	RunWithVerbose	Execute Job with Verbose Logging		X
USER_AdifJobs	MenuRun	Run Job	RunWithoutCommit	Non-Persistent Test Job		x

View Name	Button Name	Button Caption	Button Menu Item Name	Button Menu Item Caption	Added	Removed
USER_AdifJobs	MenuRun	Run Job	RunWithoutCommitWithVerbose	Non-Persistent Test Job with Verbose Logging		X

### **Views Added to Standard Object Profiles**

None

**Views Removed from Standard Object Profiles** 

None