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Task Attributes and Interaction Properties

intelligent Workload Distribution 8.1.0

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Working with Task Attributes and Interaction Properties

These topics describe the task and attribute properties that are supported in iWD 8.1.

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Task Attributes=

Task Attributes

iWD task attributes are separated into three categories:

- Core
- Extended
- Custom

Most of the iWD task attributes can be set when a task is created or updated through an iWD capture adapter, although some, such as interaction ID, are set by iWD components or by Interaction Server. Most of the task attributes are displayed in the Attributes tab when a task is selected in the Global Task List. These attributes are maintained as pieces of attached data of the interaction, as it is stored in the Interaction Server's interactions database table. Some of the attributes are stored in independent columns in that database table, while others are stored in a binary (BLOB) format in a column in the interactions table called `flexible_properties`.

There are many reasons to update or access the data stored in the iWD task attributes, including:

- Setting the value of one or more task attributes as part of an iWD message such as `CreateTask`, when working with an iWD capture adapter.
- Reading or updating task attributes in business rules.
- Using the data in the Condition, Order, and Segmentation tabs of Views in Genesys Business Processes.

Important

You cannot use properties with a Timestamp data type on the Segmentation tab.

- Reading or updating the data contained in task attributes within a routing strategy.
- Making the data available to an agent or knowledge worker desktop application, either to display to the agent or to facilitate a screen pop.

- Filtering the display of the Global Task List.

Important

There are specific columns in the interactions table that you should not change. Please refer to Chapter 8, “Interaction Properties”, in the eServices 8.1 User’s Guide.

Task Attribute Mapping provides information about how the iWD task attributes map to the columns in which their values are stored in the interactions database table, as well as the key name that is used in the attached data of the interaction, and the label used for that attribute as it appears on the Attributes tab of the Global Task List.

For details about how these task attributes are used in iWD messages such as CreateTask, see **iWD Messages** in **Legacy iWD Capture Point Services**.

|-| Task Attribute Mapping=

Task Attribute Mapping

Task Attribute Mapping

Task Attribute	Column Name in Interactions Table	Type	Interaction Attached Data Key	Label in Global Task List
Core Attributes				
BrokerId	Id	String	InteractionId	ID
Status Note: The value of Status does not correlate directly to the contents of the queue column in the interactions table. It is dynamically calculated, taking into account information such as the queue and whether the task is held or not. Because the contents of the Status column are dynamically calculated, rather than being read from a	queue	String	Queue	Status

Task Attribute	Column Name in Interactions Table	Type	Interaction Attached Data Key	Label in Global Task List
database table, the Global Task List cannot be sorted by the Status column. You should use filters instead, if you are interested in focusing in on the contents of the list by this criterion.				
mediaType	media_type	String	MediaType	Media Type
TenantId	IWD_tenantId	String	IWD_tenantId	Tenant
businessCalendar Id	in <flexible_properties>	String	IWD_businessCalendarId	Business Calendar
DepartmentId	IWD_departmentId	String	IWD_departmentId	Department (name is shown instead of ID)
ProcessId	IWD_processId	String	IWD_processId	Process (name is shown instead of ID)
Channel	IWD_channel	String	IWD_channel	Channel
Category	IWD_category	String	IWD_Category	Category
CapturePointID	IWD_capturePointId	String	IWD_capturePoint Id	Capture Point (value is shown instead of ID)
CaptureId	external_id	String	ExternalId	Capture ID
CreatedDateTime	received_at	Timestamp	ReceivedAt	Capture D/T
DistributionPointId	IWD_distributionPointId	String	IWD_distributionPointId	Distribution Point
ActivationDate Time	IWD_activationDateTime	Timestamp		Activation D/T
BusinessValue	IWD_businessValue	Integer	IWD_businessValue	Business Value
DueDateTime	IWD_dueDateTime	Timestamp	IWD_dueDateTime	Task Due D/T

Task Attribute	Column Name in Interactions Table	Type	Interaction Attached Data Key	Label in Global Task List
Priority	priority	Integer	Priority	Priority
ReprioritizeDate Time	IWD_reprioritizeDateTime	Timestamp	IWD_reprioritize DateTime	Reprioritization D/T
AssignedToUser	assigned_to	String	RTargetAgent Selected	Assigned To
AssignedDateTime	assigned_at	Timestamp	AssignedAt	Assigned D/T
-	completed_at	Timestamp	CompletedAt	Completed D/T
ExpirationDate Time	IWD_expirationDateTime	Timestamp	IWD_expiration DateTime	Expiration D/T
-	IWD_solutionId	String	IWD_solutionId	-
Extended Attributes				
CustomerSegment	IWD_ext_customer Segment	String	IWD_ext_customer Segment	Customer Segment
CustomerId	IWD_ext_customerId	String	IWD_ext_customerId	Customer ID
ProductType	IWD_ext_productType	String	IWD_ext_product Type	Product
ProductSubtype	IWD_ext_sourceProduct Subtype	String	IWD_ext_product Subtype	Subproduct
RequestedAgent Group	IWD_ext_requestedAgent Group	String	IWD_ext_requestedAgent Group	Requested Agent Group
RequestedPlace Group	IWD_ext_requestedPlace Group	String	IWD_ext_requestedPlace Group	Requested Place Group
SourceTenant	IWD_ext_sourceTenant	String	IWD_ext_source Tenant	TOS Tenant
SourceProcessType	IWD_ext_sourceProcess Type	String	IWD_ext_source ProcessType	TOS Process

Task Attribute	Column Name in Interactions Table	Type	Interaction Attached Data Key	Label in Global Task List
SourceProcess Subtype	IWD_ext_sourceProcess SubType	String	IWD_ext_source ProcessSubtype	TOS Subprocess
SourceFirst CreatedDateTime	IWD_ext_sourceFirst CreatedDT	Timestamp	IWD_ext_source FirstCreatedDate Time	-
SourceCreatedDate Time	IWD_ext_sourceCreated DateTime	Timestamp	IWD_ext_source CreatedDateTime	TOS Created D/T
SourceDueDate Time	IWD_ext_sourceDueDateTime	Timestamp	IWD_ext_source DueDateTime	TOS Due D/T
ResultCode	IWD_ext_resultCode	String	IWD_ext_result Code	Result Code
RequestedAgent	IWD_ext_requestedAgent	String	IWD_ext_requested Agent	Requested Agent
RequestedSkill	IWD_ext_requestedSkill	String	IWD_ext_requested Skill	Requested Skill
Custom Attributes				
myCustomAttribute	in <flexible_properties>	String	myCustomAttribute	myCustom Attribute
Archive Destination Archive Destination has been maintained from iWD 8.0 and 8.1.0 releases. However, due to changes in task archiving, it is no longer necessary to populate this attribute through business rules.	in <flexible_properties>	String	ArchiveDestination	Archive Destination
ESP_Result	in <flexible_properties>	String	ESP_Result	ESP_Result
ESP_Error	in <flexible_properties>	String	ESP_Error	ESP_Error

|-| Interaction Custom Properties=

Interaction Custom Properties

If you want to use the value of a task attribute in the Condition, Order, and Segmentation tabs of Views in Genesys Business Processes, or if you want to filter or sort the display of the Global Task List by using a task attribute, that task attribute must be represented in an independent column in the Interaction Server's interactions database table. If that task attribute is inside the binary data in the `flexible_properties` column, you must create an Interaction Custom Property that corresponds to that attribute. The data type of the property can be a timestamp, string, or number.

Important

Properties with the Timestamp data type cannot be used on the Segmentation tab of Views in a Genesys Business Process.

Configuring a custom interaction property

1. Decide on an attached data key that will be the source of the content of the custom property.
2. Create a new field directly in the `interactions` database.
3. Create a new Business Attribute:

Name = `InteractionCustomProperties` Display name = `Interaction Custom Properties`
Type = `Custom`

If such an attribute already exists go to the next step.

- Expand `Interaction Custom Properties` and open its `Attribute values`.
- Give it an `Attribute Value`, with a name exactly matching the attached data key name that you decided on in Step 1. The matching is case sensitive (you can create a separate display name).
- In your new attribute value, go to the `Annex` tab and create a section called `translation`.
- In the new `translation` section, create an option called `translate-to`, with its value duplicating the name of the new field you created in See [Create a new field directly in the interactions database](#).
- If required, configure user-friendly labels for any custom attribute, that will appear in the Global Task List's `Attributes` tab, in the list of `Advanced Filters`, and the list of attributes that are used when you are building custom filters. See [Configuring Custom Attributes](#).

Important

If you specify a custom field as not null, you must ensure that you provide some data to that field upon creation of a task. If no data is provided, the request will fail because Interaction Server sends NULL for empty fields, and that will be rejected by the DBMS.

[-] Configuring Custom Attributes=

Configuring Custom Attributes

When you capture a task from a source system and that task has custom attributes in it, you will need to configure the system properly so that each custom attribute is recognized. Several steps are required to ensure the custom attribute:

- Appears on the Global Task List with a user-friendly label and can be used in advanced and custom filters.
- Can be properly populated in iWD Data Mart.
- Can be used in the Condition, Order, and Segmentation tabs of Views in Genesys Business Processes.

Process Summary Table

Objective	Related Procedures and Actions
Add database columns and Interaction Custom Property for Custom Attributes.	1. Add a unique column in the Interaction Server database interactions table to store the value of this custom attribute.
	2. Create a new Business Attribute to correspond to the custom attribute and map it to the new database column you added in the Interaction Server database interactions table.
	3. Add a unique column to two tables in the Interaction Server Event Log database to store the value of this custom attribute.
	4. Add two new options on the Interaction Server Event Log Database Access Point application to refer to the newly-added database columns in the Interaction Server Event Log database.
Edit the resource file on the application server.	5. Edit this file to indicate how you want the custom attribute to be labeled on the Global Task List. See the Editing the iWD Manager's Resource File tab on this page.

Adding new database column(s) and Interaction Custom Property for each Custom Attribute

To add new database columns and interaction custom properties to custom attributes, do the following:

1. Decide on the name of the interaction user data key that will store the value of your custom attribute.

This is the value you will use in the CreateTaskmessage when you create new task from an iWD capture point (see description of the CreateTask message on the Create Task tab).

Important

If your custom attribute is going to be used to store a timestamp, ensure the name of the interaction user data key ends with `DateTime`, (for example, `CustomDateTime`). Then, the custom attributes that appear on the Attributes tab of the Global Task List will be properly formatted as date and time. For example, December 31, 2012 9:30 PM, instead of 2012-12-31T21:30:00Z.

2. In your database server's Administration Console, add a new column to the Interaction Server database interactions table.

This column can be a timestamp, string, or number. The exact data types will differ depending on the type of database server you are using. The name of this column does not necessarily need to match the interaction user data key that is storing the custom attribute.

Important

If your custom attribute is going to be used to store a timestamp, ensure this column name ends with `DateTime`, (for example, `CustomDateTime`). Then, when you create a Global Task List filter with this custom attribute or use it in an advanced filter, the user will see a calendar control to pick the date.

Properties with the `Timestamp` data type cannot be used on the Segmentation tab of Views in a Genesys Business Process.

If you specify a custom database field as not null, you must ensure that you provide some data to that field upon creation of a task. If no data is provided, the request will fail because Interaction Server sends `NULL` for empty fields, which will be rejected by the DBMS.

3. In Genesys Administrator or Configuration Manager, create a new Business Attribute under the tenant you are working with for this iWD Solution (if an attribute already exists go to the next step):
 - a. Create a new Business Attribute with the following properties:
 - Name: `InteractionCustomProperties`

- Display Name: Interaction Custom Properties
 - Type: Custom
- b. Expand **Interaction Custom Properties** and open **Attribute** values. The name of the **Attribute** value must match exactly the interaction user data key name that you used in Step 1. The matching of names is case-sensitive. (You can create a separate display name.)
 - c. In the new **Attribute** value, go to the **Annex** tab and create a section named **translation**.
 - d. In the **translation** section, create an option named **translate-to**, with a value name that matches the name of the database field you created in Step 2.

Important

Steps 4 and 5 will affect the correct population of the custom task attribute in iWD Data Mart and ensure that the Global Task List's Historytab is correctly populated. If you complete these steps, the History tab will display an event whenever the value of the custom attribute is updated.

5. In your database server's Administration Console, add a new column to the Interaction Server Event Log database, in both the **rpt_esp** and **rpt_interaction** tables.

Use the same data type for this column as you did in Step 2, add a new column to the Interaction Server database interactions table.

6. Create two new options on the Interaction Server Event Log Database Access Point application, as follows:
 - a. Using Genesys Administrator or Configuration Manager, open the Interaction Server Event Log Database Access Point application object.
 - b. On the **Options** tab, in the **esp-custom-data** section, add a new option with a name that matches the attached data key from Step 2, and a value that matches the new database column that you added in Step 4, add a new column to the Interaction Server Event Log database, in both the **rpt_esp** and **rpt_interaction** tables.
 - c. In the **itx-custom-data** section, add a new option with a name that matches the attached data key from Step 1, and a value that matches the new database column added in Step 4, add a new column to the Interaction Server Event Log database, in both the **rpt_esp** and **rpt_interaction** tables.
4. Restart Interaction Server.

[-] Editing the iWD Manager's Resource File=

Editing the iWD Manager's Resource File

By default, the on-screen labels you will see on the Global Task List's Attributes tab of the Task Details panel for all custom task attributes will be the interaction user data keys. These labels may not be very user-friendly. For example they might include multiple words concatenated, or they might use underscore characters or have odd capitalization.

To configure user-friendly labels for custom task attributes by adding into a resources file, the labels

that you want to see and that will be used by iWD Manager.

1. Stop your application server.
2. Inside the `iwd_manager` application folder, which will be in the `webapps` folder of your application server, navigate to the `.../WEB-INF/classes/evo/cmc/ui/resources` directory, or if you are using a localized version of iWD Manager, navigate to the `.../WEB-INF/classes/lang/evo/cmc/ui/resources` directory.
3. Create a new text file called `resources_custom.properties` (if it does not already exist).
4. In the `resources_custom.properties` file, add a line for each custom attribute for which you want to define an on-screen label, by using the following format:

```
TASK_attribute_key=Attribute Label
```

Where:

- `attribute_key` matches the interaction user data key of the custom attribute.
- `Attribute Label` is the user-friendly string you want to display on the Global Task List. For example, if your custom attribute's user data key is `MyAttribute`, but you want it to display as `My Custom Attribute`

on the Global Task List, your entry would look like this: `TASK_MyAttribute=My Custom Attribute`.

Important

This label will be used in the following places in the Global Task List:

- As the label for this attribute on the `Attributes` tab of the `Task Details` panel.
- In the `Select` columns to add drop-down list on the `Filters` page.
- As the column header if you add this custom attribute as a column in the task table when you are creating a custom filter.

- In the same `resources_custom.properties` file that was used in the **Adding new database column(s) and Interaction Custom Property for each Custom Attribute procedure**, add a new line for each custom attribute, by using the following format:

```
FILTER_ATTR_attributedb_column_name=Attribute Label
```

Where:

- `attributedb_column_name` matches the column name that you added to the interactions table.
- `Attribute Label` is the user-friendly string you want to display in the Global Task List. For example, if the name of the database column is `my_attribute`, this line in the `resources_custom.properties` file would look like this: `FILTER_ATTR_my_attribute=My Custom Attribute`.

Important

This label will be used in the following places in the Global Task List:

- In the Advanced Filters drop-down list.
- In the attributes drop-down list that you use to add a custom attribute in a filter criterion, when you are creating or editing a Global Task List filter.

- Restart the `iwd_manager` application on your application server for the changes to become effective.

Important

If the user-friendly labels need to be localized, create a separate file for each supported locale. Use the following name pattern for the file: `resources_custom_xx[_YY].properties`, where `xx` and `YY` are language code and country code, respectively. Also, do not use Unicode or any language-specific encoding for the properties files. Use ISO-8859-1 encoding, which supports only a few Western languages. Encode resources in other languages by using escape sequences, such as the `native2ascii` program, which is a part of the Oracle JDK.