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# Genesys Engage cloud Reporting Guide

New in Release 8.5.0

## New in Release 8.5.0

This page provides information about schema-related changes introduced in Genesys Info Mart 8.5.0 releases, starting with the most recent release supported in cloud deployments. See [New in Release 8.5.1](#) for information about subsequent schema-related changes introduced in Genesys Info Mart 8.5.1 releases.

For a summary you can sort to see schema-related changes by table/column and type of change, as well as by release, see [Summary of Info Mart Schema Changes](#). See the short video on the [New in the Info Mart Database](#) page to learn how to view summary information about schema changes.

### New in Release 8.5.015.19

- New tables support reporting on voice bot and chat bot activity orchestrated with Genesys Designer. (Support for Genesys Designer is available in certain Genesys Engage cloud and on-premises deployments.) The following tables have been added:

- [SDR\\_BOTS\\_FACT](#)
- [BOT\\_ATTRIBUTES](#)
- [BOT\\_INTENT](#)

The new tables are included in Data Export.

- In preparation for future support of alternative data streams, a new column, `PRODUCER_BATCH_ID`, has been added to a number of `*_FACT` and `GIDB` tables. The column is reserved for internal use.
- General Data Protection Regulation (GDPR) processing now includes the `TARGET_OBJECT_SELECTED` column in the `ROUTING_TARGET` table. The description of the [CTL\\_GDPR\\_HISTORY](#) table has been updated accordingly.

### New in Release 8.5.015.14

- A new column, [GVP\\_SESSION\\_ID](#), has been added to the `IRF_USER_DATA_GEN_1` table for internal purposes.

### New in Release 8.5.015.07

- **Outbound Contact reporting enhancement** — By default, Genesys Info Mart now creates a single, aggregated [CONTACT\\_ATTEMPT\\_FACT \(CAF\)](#) record for multiple call attempts dialed in the context of the same `CALL_ATTEMPT_GUID`. Previously, Genesys Info Mart created a separate CAF record for each call

attempt dialed as part of multiple attempts to reach a customer. If you want to retain the previous behavior, set the `ocs-caf-aggregates-calls` option to `false`.

A new index on the `GIDB_GOX_CHAIN_CALL` table enables the new behavior.

The new behavior affects when CAF records are created, as well as population of the `CALLID` field.

#### • Miscellaneous

- The size of the `SCRIPT` column in the `GIDB_GC_GROUP` table has been increased from 255 to 1024 characters. However, note that the length of `SCRIPT` values remains effectively limited to 255 characters until ICON supports longer values in `GC_GROUP.SCRIPT` in IDB.
- The size of the `CALL_ID` column in the `CDR_FACT` table has been increased from 64 to 255 characters. (The `CDR_FACT` table is reserved for future use.)

## New in Release 8.5.014.34

- **Enhanced support for Unicode in Microsoft SQL Server** — In Microsoft SQL Server deployments with single-language databases, the data types of some columns in certain dimension tables have been changed from `varchar` to `nvarchar`, to extend support of Unicode characters in single-language databases.

Columns in the following tables were modified for single-language databases. See the [Summary of Info Mart Schema Changes](#) for a list of the applicable columns.

<code>AGENT_LOCATION</code>	<code>COBROWSE_PAGE</code>	<code>RECORD_TYPE</code>
<code>ATTEMPT_DISPOSITION</code>	<code>COBROWSE_USER_AGENT</code>	<code>REQUESTED_SKILL_COMBINATION</code>
<code>CALLBACK_DIAL_RESULTS</code>	<code>CONTACT_INFO_TYPE</code>	<code>RESOURCE</code>
<code>CALLBACK_DIM_1</code>	<code>DIALING_MODE</code>	<code>RESOURCE_ANNEX</code>
<code>CALLBACK_DIM_2</code>	<code>GROUP_ANNEX</code>	<code>RESOURCE_STATE</code>
<code>CALLBACK_DIM_3</code>	<code>INTERACTION_RESOURCE_STATE</code>	<code>RESOURCE_STATE_REASON</code>
<code>CALL_RESULT</code>	<code>INTERACTION_TYPE</code>	<code>ROUTING_TARGET</code>
<code>CAMPAIGN_GROUP_STATE</code>	<code>MEDIA_TYPE</code>	<code>STRATEGY</code>
<code>CDR_DIM1</code>	<code>RECORD_FIELD_GROUP_1</code>	<code>TECHNICAL_DESCRIPTOR</code>
<code>COBROWSE_END_REASON</code>	<code>RECORD_FIELD_GROUP_2</code>	<code>TIME_ZONE</code>
<code>COBROWSE_MODE</code>	<code>RECORD_STATUS</code>	<code>WORKBIN</code>

For consistency, the sizes of the `SECTIONNAME` and `KEYNAME` columns in the `GROUP_ANNEX` and `RESOURCE_ANNEX` tables have been modified in multi-language databases as well.

- **Data Export enhancements** — To improve support for scenarios where data is exported from a PostgreSQL or Oracle Info Mart database and subsequently imported into a Microsoft SQL Server target database:
  - The `update_target*.sql` scripts for Microsoft SQL Server have been modified to be compatible with a case-sensitive Microsoft SQL Server collation.
  - The sizes of all columns in the target database schemas defined in the applicable `update_target*.sql` scripts are now the same across all RDBMS platforms. Previously, to ensure that indexes did not exceed Microsoft SQL Server size limits, the sizes of many dimension columns in the target database schema defined for Microsoft SQL Server were reduced.

The sizes of the following columns have changed in the `update_target*.sql` scripts for Microsoft SQL Server:

<b>INTERACTION_DESCRIPTOR</b>	<code>SURVEY_SQ6</code>	<b>USER_DATA_CUST_DIM_2</b>
<code>CUSTOMER_SEGMENT</code>	<code>SURVEY_SQ7</code>	<code>DIM_ATTRIBUTE_1</code>
<code>SERVICE_TYPE</code>	<b>POST_CALL_SURVEY_DIM_4</b>	<code>DIM_ATTRIBUTE_2</code>
<code>SERVICE_SUBTYPE</code>	<code>SURVEY_SQ8</code>	<code>DIM_ATTRIBUTE_3</code>
<code>BUSINESS_RESULT</code>	<code>SURVEY_SQ9</code>	<code>DIM_ATTRIBUTE_4</code>
<b>POST_CALL_SURVEY_DIM_2</b>	<code>SURVEY_SQ10</code>	<code>DIM_ATTRIBUTE_5</code>
<code>SURVEY_SQ1</code>	<b>USER_DATA_CUST_DIM_1</b>	<b>SDR_GEO_LOCATION</b>
<code>SURVEY_SQ2</code>	<code>DIM_ATTRIBUTE_1</code>	<code>COUNTRY_NAME</code>
<b>POST_CALL_SURVEY_DIM_3</b>	<code>DIM_ATTRIBUTE_2</code>	<code>REGION</code>
<code>SURVEY_SQ3</code>	<code>DIM_ATTRIBUTE_3</code>	<code>TIMEZONE</code>
<code>SURVEY_SQ4</code>	<code>DIM_ATTRIBUTE_4</code>	<b>SDR_SURVEY_S1</b>
<code>SURVEY_SQ5</code>	<code>DIM_ATTRIBUTE_5</code>	<code>SQ1</code>

SQ2	<b>SDR_SURVEY_QUESTIONS_I2</b>	SQ9
SQ3	IQ6	SQ10
SQ4	IQ7	<b>USER_DATA_GEN_DIM_1</b>
SQ5	IQ8	DIM_ATTRIBUTE_1
<b>SDR_SURVEY_S2</b>	IQ9	DIM_ATTRIBUTE_2
SQ6	IQ10	DIM_ATTRIBUTE_3
SQ7	<b>SDR_SURVEY_QUESTIONS_S1</b>	DIM_ATTRIBUTE_4
SQ8	SQ1	DIM_ATTRIBUTE_5
SQ9	SQ2	<b>USER_DATA_GEN_DIM_2</b>
SQ10	SQ3	DIM_ATTRIBUTE_1
<b>SDR_SURVEY_QUESTIONS_I1</b>	SQ4	DIM_ATTRIBUTE_2
IQ1	SQ5	DIM_ATTRIBUTE_3
IQ2	<b>SDR_SURVEY_QUESTIONS_S2</b>	DIM_ATTRIBUTE_4
IQ3	SQ6	DIM_ATTRIBUTE_5
IQ4	SQ7	
IQ5	SQ8	

**Note:** If you are importing Info Mart data into a Microsoft SQL Server database, ensure that your import tool or process is able to handle errors that arise when the sum of the actual values of dimension table columns included in an index exceeds the Microsoft SQL Server limit on index size.

- In the **update\_target\_\*.sql** scripts for Microsoft SQL Server, the data types of the following columns in various GIDB tables have been changed from varchar to nvarchar:

GIDB_GC_CALLING_LIST.NAME	GIDB_GC_LOGIN.LOGINCODE
GIDB_GC_CALLING_LIST.DESCRPTION	GIDB_GC_PLACE.NAME
GIDB_GC_CAMPAIGN.NAME	GIDB_GC_SKILL.NAME
GIDB_GC_CAMPAIGN.DESCRPTION	GIDB_GC_TENANT.NAME
GIDB_GC_FOLDER.NAME	
GIDB_GC_GROUP.SCRIPT	
GIDB_GC_GROUP.NAME	

## New in Release 8.5.014.26

- **Support for Asynchronous interactions in Advanced Chat deployments** — In Genesys Engage cloud deployments with Advanced Chat, Genesys Info Mart supports reporting on Asynchronous interactions that are placed into a parking queue. Two new columns, PARKING\_QUEUE\_COUNT and PARKING\_QUEUE\_DURATION, have been added to the **CHAT\_SESSION\_FACT** table.
- **Miscellaneous** — The names of the KVPs that populate the USER\_DATA\_GEN\_DIM\_\* tables have been changed in the out-of-box CTL\_UD\_TO\_UDE\_MAPPING table, to avoid confusion with placeholder names for custom KVPs mapped in the **make\_gim\_UDE\_template** SQL scripts. The tables, which were introduced in the previous release, are reserved for internal use.

## New in Release 8.5.014.19

- **Reporting on agent location** — A new dimension table, AGENT\_LOCATION, records locations of agents for both voice and multimedia login sessions. A new column, AGENT\_LOCATION\_KEY, in the SM\_RES\_SESSION\_FACT table, is a surrogate key that you can use to join the SM\_RES\_SESSION\_FACT to the AGENT\_LOCATION dimension. The key is used to indicate the agent's specific location for the summarized resource session, by agent and media type.
- **Miscellaneous schema enhancements:**
  - To enhance reporting on Genesys Predictive Routing, two new columns in the GPM\_FACT table — VQ\_GUID and VQ\_RESOURCE\_KEY — enable you to join GPM\_FACT to MEDIATION\_SEGMENT\_FACT.

Use this join to make information about virtual queues (VQs) that participate in Predictive Routing interactions available in reports.

- Two new dimension tables, `USER_DATA_GEN_DIM_1` and `USER_DATA_GEN_DIM_2`, have been added to the Info Mart schema to store out-of-box user data for internal use. Corresponding keys, `USER_DATA_GEN_DIM_KEY_1` and `USER_DATA_GEN_DIM_KEY_2`, have been added to the `IRF_USER_DATA_KEYS` table, accordingly.

## New in Release 8.5.014.09

- **Predictive Routing enhancements** — Genesys Info Mart now supports enhanced reporting on Genesys Predictive Routing (GPR) usage, including more detailed reporting about scores, thresholds, predictors, and routing. To enable the enhanced reporting, a new Info Mart dimension table, `GPM_DIM1`, and nine new columns in the `GPM_FACT` table store the new KVPs from Predictive Routing - URS Strategy Subroutines release 9.0.015.00 or higher. In addition, the values provided in some existing KVPs have been modified.

For more information about the reporting KVPs sent by GPR, see [Integrate with Genesys Reporting](#) in the *GPR Deployment and Operations Guide*.

- **Support for Chat Thread reporting** — In Genesys Engage cloud deployments with Advanced Chat, Genesys Info Mart supports reporting on chat threads:
  - New tables, `CHAT_THREAD_FACT` and `MEDIA_ORIGIN`, store data for chat thread statistics.
  - A new column in the `CHAT_SESSION_FACT` table, `THREAD_ID`, has been included for future use, to associate chat session with chat thread reporting.

## New in Release 8.5.013.06

- **Enhanced omnichannel reporting** — Two new columns in the `SM_MEDIA_NEUTRAL_STATE_FACT` table, `END_DATE_TIME_KEY` and `RESOURCE_GROUP_COMBINATION_KEY`, enhance support for reporting across all media channels.
- **Support for Call Detail Records (CDRs)** — In preparation for future support of CDRs for billing or other monitoring purposes, new `CDR_*` tables have been added to the Info Mart database schema. Although the `CDR_*` tables are populated in cloud deployments, they are considered reserved for internal use.

## New in Release 8.5.012.15

- In Genesys Engage cloud deployments with Co-browse Server 9.0.003.02 or higher, Genesys Info Mart now supports reporting on Co-browse sessions. The following fact and dimension tables, which were originally added to the Info Mart schema in release 8.5.011.14, are no longer reserved:
  - `COBROWSE_END_REASON`
  - `COBROWSE_FACT`
  - `COBROWSE_MODE`
  - `COBROWSE_PAGE`

- **COBROWSE\_USER\_AGENT**

- In Outbound Contact deployments with CX Contact release 9.0.000.09 or higher, Genesys Info Mart now supports reporting on contact list records that were suppressed from an outbound campaign. The following new tables store relevant fact and dimension data:

- **LDR\_FACT**
- **LDR\_CAMPAIGN**
- **LDR\_DEVICE**
- **LDR\_GROUP**
- **LDR\_LIST**
- **LDR\_POSTAL\_CODE**
- **LDR\_RECORD**

The LDR\_\* tables are populated with data that Genesys Info Mart obtains from CX Contact through Elasticsearch. The new tables supplement existing reporting about campaign activity and calling list usage sourced from Outbound Contact Server (OCS) through ICON.

Genesys Info Mart support for CX Contact reporting on unattempted records is defined out-of-box and cannot be customized. For links to more information about CX Contact historical reporting, see the [New in Release 8.5.012](#) item in the *Genesys Info Mart 8.5 Deployment Guide*.

## New in Release 8.5.011.18

- The GSW\_CALL\_TYPE column has been added to [IRF\\_USER\\_DATA\\_GEN\\_1](#) to provide additional information about OCS calls and about outbound call flows in SIP Cluster deployments where SIP Server can disable recording and monitoring.

## New in Release 8.5.011.14

- In eServices deployments with Chat Server release 8.5.302.03 or higher, Genesys Info Mart supports detailed reporting on asynchronous (async) chat sessions.

The following new columns have been added to the [CHAT\\_SESSION\\_FACT](#) and [CHAT\\_SESSION\\_DIM](#) tables, to store async chat statistics in the Info Mart dimensional model database schema:

- [CHAT\\_SESSION\\_FACT.ASYNC\\_DORMANT\\_COUNT](#)
- [CHAT\\_SESSION\\_FACT.ASYNC\\_DORMANT\\_DURATION](#)
- [CHAT\\_SESSION\\_FACT.ASYNC\\_IDLE\\_COUNT](#)
- [CHAT\\_SESSION\\_FACT.ASYNC\\_IDLE\\_DURATION](#)
- [CHAT\\_SESSION\\_FACT.ACTIVE\\_IDLE\\_COUNT](#)
- [CHAT\\_SESSION\\_FACT.ACTIVE\\_IDLE\\_DURATION](#)
- [CHAT\\_SESSION\\_FACT.HANDLE\\_COUNT](#)
- [CHAT\\_SESSION\\_FACT.HANDLE\\_DURATION](#)
- [CHAT\\_SESSION\\_DIM.ASYNC\\_MODE](#)

For links to more information about async chat historical reporting, see the [New in Release 8.5.011.14](#) item in the *Genesys Info Mart 8.5 Deployment Guide*.

- Database schema improvements related to user data processing are as follows:
  - To optimize the performance of the migration job, the columns that store foreign key references to user data dimension tables in the [IRF\\_USER\\_DATA\\_KEYS](#) table are added as nullable and without default values.
- The [STG\\_TRANSFORM\\_DISCARDS.TABLE\\_NAME](#) column has been increased from 30 to 255 characters.
- In preparation for future support of a new data source, the following new tables have been added to the Info Mart database

## New in Release 8.5.0

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schema:

- COBROWSE\_FACT
- COBROWSE\_END\_REASON
- COBROWSE\_MODE
- COBROWSE\_PAGE
- COBROWSE\_USER\_AGENT

## New in Release 8.5.011

- In eServices deployments with Chat Server release 8.5.203.09 or higher, Genesys Info Mart supports detailed reporting on Genesys Chat sessions. In deployments that include Bot Gateway Server (BGS) release 9.0.002 or higher, Genesys Info Mart also supports reporting on chat bot activity. (BGS is currently available only in restricted release.)

The following new tables store chat- and BGS-related data:

- CHAT\_SESSION\_FACT
- CHAT\_SESSION\_DIM
- BGS\_SESSION\_FACT
- BGS\_SESSION\_DIM
- BGS\_BOT\_DIM
- BGS\_BOT\_NAME\_DIM

A control table, CTL\_XML\_CONFIG, is used internally to map Chat Server KVPs and BGS reporting data attributes to the respective CHAT\_\* and BGS\_\* tables during transformation.

For links to more information about chat session and chat bot historical reporting, see the [New in Release 8.5.011](#) item in the *Genesys Info Mart 8.5 Deployment Guide*.

- To improve the robustness of queries that involve the GPM\_FACT table (for example, when converting from a nonpartitioned to a partitioned database), the START\_DATE\_TIME\_KEY is now part of the composite primary key for the GPM\_FACT table in nonpartitioned as well as partitioned databases.

## New in Release 8.5.010.16

- Support for General Data Protection Regulation (GDPR) compliance has been extended to employee requests. The scope of the CTL\_GDPR\_HISTORY history table has been similarly extended.

- The UPDATE\_AUDIT\_KEY column was added to the following tables:

CALLBACK_FACT	SDR_EXT_REQUEST_FACT	SDR_USER_INPUTS_FACT
GPM_FACT	SDR_SESSION_FACT	SDR_USER_MILESTONE_FACT
SDR_ACTIVITIES_FACT	SDR_SURVEY_FACT	
SDR_CUST_ATTRIBUTES_FACT	SDR_SURVEY_TRANSCRIPT_FACT	

For tables that might contain personally identifiable information (PII), the presence of the audit key enables enhanced GDPR support in deployments that include the Data Export feature.

## New in Release 8.5.010

- To enable customers to comply with General Data Protection Regulation (GDPR) Right to Access (export) or Right of Erasure ("forget") requests from their customers ("consumers"), Genesys Info Mart exports

or redacts customer-specified personally identifiable information (PII) stored in Info Mart fact tables. New control tables (CTL\_GDPR\_HISTORY, CTL\_GDPR\_HWM, CTL\_KEY\_TO\_CAF\_MAPPING) and a number of new temporary (TMP\_\*) tables support this functionality. The **CTL\_GDPR\_HISTORY** table reports the actual PII data that was requested for export or was redacted because of a "forget" request.

- In future releases, Genesys Info Mart will support obtaining data from data streams that do not go through Interaction Concentrator. In preparation for future support of these alternative data channels, the following schema changes have been made:
  - A new column in the **CTL\_TRANSFORM\_HISTORY** table, **HWM\_VALUE2**, provides supplemental information for HWMs that might require nonnumeric values for context.
  - In Microsoft SQL Server deployments, the data types of some columns in the following dimension tables have changed, to support Unicode characters in both single- and multi-language databases.

CALLBACK_DIM_1	SDR_CALL_DISPOSITION	SDR_SURVEY_ANSWERS
CALLBACK_DIM_2	SDR_CALL_TYPE	SDR_SURVEY_QUESTIONS
CALLBACK_DIM_3	SDR_CUST_ATTRIBUTES	SDR_SURVEY_QUESTIONS_I1
GPM_MODEL	SDR_ENTRY_POINT	SDR_SURVEY_QUESTIONS_I2
GPM_PREDICTOR	SDR_EXIT_POINT	SDR_SURVEY_QUESTIONS_S1
GPM_RESULT	SDR_EXT_HTTP_REST	SDR_SURVEY_QUESTIONS_S2
INTERACTION_DESCRIPTOR	SDR_EXT_REQUEST	SDR_SURVEY_S1
POST_CALL_SURVEY_DIM_1	SDR_EXT_REQUEST_OUTCOME	SDR_SURVEY_S2
POST_CALL_SURVEY_DIM_2	SDR_EXT_SERVICE_OUTCOME	SDR_SURVEY_STATUS
POST_CALL_SURVEY_DIM_3	SDR_GEO_LOCATION	SDR_USER_INPUT
POST_CALL_SURVEY_DIM_4	SDR_INPUT	USER_DATA_CUST_DIM_1
POST_CALL_SURVEY_DIM_5	SDR_INPUT_OUTCOME	
POST_CALL_SURVEY_DIM_6	SDR_LANGUAGE	
SDR_ACTIVITY	SDR_MESSAGE	
SDR_APPLICATION	SDR_MILESTONE	

For full details about the changes, see the table descriptions.

## Important

Because of the schema changes, Genesys strongly recommends that Microsoft SQL Server deployments for Genesys Info Mart 8.5.010 or higher use Microsoft SQL Server 2016 or later supported version. See [Microsoft SQL Server Considerations](#) in the *Deployment Guide* for more information.

- In multi-language Microsoft SQL Server databases, to correct data type inconsistencies between IDs that might be used for joins, the data types of the following columns have been changed from nvarchar to varchar:
 

CALLBACK_FACT.ORIGINATION_I1XN_ID	SDR_ACTIVITIES_FACT.SESSION_ID
CALLBACK_FACT.FIRST_OUT_I1XN_ID	SDR_SURVEY_FACT.SESSION_ID
CALLBACK_FACT.LAST_OUT_I1XN_ID	SDR_SURVEY_FACT.INTERACTION_ID
CALLBACK_FACT.ORS_SESSION_ID	SDR_SURVEY_TRANSCRIPT_FACT.SESSION_ID
GPM_FACT.MEDIA_SERVER_I1XN_GUID	
- To extend Unicode support for user input in multi-language Microsoft SQL Server databases, the data types of the UTTERANCE and INTERPRETATION columns in the SDR\_USER\_INPUTS\_FACT table have been changed from varchar to nvarchar.

## New in Release 8.5.009.20

- New tables and columns extend support for Callback reporting by providing more data about dialing attempts and dial results.



- Two new dimension tables, **CALLBACK\_DIAL\_RESULTS** and **CALLBACK\_DIM\_4**, have been added.

- The following columns have been added to the **CALLBACK\_FACT** table:

CALLBACK_DIAL_RESULTS_KEY	EWT_WHEN_LAST_DIAL	POS_WHEN_LAST_DIAL
CALLBACK_DIM_4_KEY	EWT_WHEN_REJECTED	PRIORITY_WHEN_A_CONNECTED
CUSTOMER_ANI	FIRST_OUT_I_XN_ID	PRIORITY_WHEN_C_CONNECTED
DIAL_1_TS through DIAL_5_TS	LAST_OUT_I_XN_ID	PRIORITY_WHEN_CB_ACCEPTED
EWT_THRESHOLD_WHEN_OFFERED	ORIGINATION_I_XN_ID	SERVICE_END_TS
	ORS_SESSION_ID	WAITED_BEFORE_OFFER_TIME

The columns are populated with actual data when you use a Genesys Mobile Services (GMS) release that provides the required user data KVPs.

### Important

If you use the Data Export feature, ensure that you modify your target database schema and import processing to match the Info Mart schema changes.

## New in Release 8.5.009

- In premise deployments, Genesys Info Mart now supports reporting on Genesys Predictive Routing (GPR) usage and the impact of predictive routing on agent and interaction-handling KPIs for voice, web, and mobile channels. The following new **GPM\_\*** tables in the Info Mart schema store GPR-related data:
  - GPM\_FACT**
  - GPM\_RESULT**
  - GPM\_PREDICTOR**
  - GPM\_MODEL**
- Audit keys were added to the **CTL\_TRANSFORM\_HWM** and **CTL\_TRANSFORM\_HISTORY** control tables, as well as to a number of staging tables.

## New in Release 8.5.008.29

- The following new **SDR\_\*** fact and dimension tables have been added:
  - SDR\_SURVEY\_FACT**
  - SDR\_SURVEY\_QUESTIONS**
  - SDR\_SURVEY\_ANSWERS**

- In deployments that support Session Detail Record (SDR) reporting, the way Genesys Info Mart stores URL values in the SDR\_EXT\_HTTP\_REST table has changed. For more information, see [SDR\\_EXT\\_HTTP\\_REST.URL](#).

## New in Release 8.5.008

- The following changes have been made to CALLBACK\_FACT columns: The data type of DS\_AUDIT\_KEY has been increased from 10 to 19 digits; a default value (0) has been added for LAST\_CALLBACK\_OFFERED\_TS.
- Additional schema changes support reporting on interaction flows that involve applications developed with Genesys Designer. (Support for Genesys Designer is available in certain Genesys Engage cloud implementations.) In particular:
  - The following new column has been added to the previously implemented SDR\_\* fact and dimension tables: SDR\_CALL\_TYPE.MEDIA\_TYPE.
  - The following SDR\_USER\_INPUTS\_FACT columns have been modified: START\_TS\_MS is no longer mandatory; UTTERANCE and INTERPRETATION have been increased to 512 chars.
- To support internal performance improvements, additional fields have been added to indexes in the GIDB\_GC\_\* tables.

## New in Release 8.5.007

- Genesys Info Mart now supports storage of e-mail subjects up to 1024 characters. The data type for INTERACTION\_FACT.SUBJECT has been extended from 255 to 1024 characters to accommodate this enhancement. You can also store up to 1024 characters in fields with character data types in custom user data fact tables
- Additional schema changes support reporting on interaction flows that involve applications developed with Genesys Designer. (Support for Genesys Designer is available in certain Genesys Engage cloud implementations.) In particular:
  - The following new SDR\_\* fact and dimension tables, which are defined in the make\_gim.sql and make\_gim\_partitioned.sql scripts, have been added: SDR\_ACTIVITIES\_FACT, SDR\_ACTIVITY, SDR\_SURVEY\_I1, SDR\_SURVEY\_I2, SDR\_SURVEY\_QUESTIONS\_I1, SDR\_SURVEY\_QUESTIONS\_I2, SDR\_SURVEY\_QUESTIONS\_S1, SDR\_SURVEY\_QUESTIONS\_S2, SDR\_SURVEY\_S1, SDR\_SURVEY\_S2, SDR\_SURVEY\_SCORES, SDR\_SURVEY\_STATUS.
  - The following new columns have been added to the previously implemented SDR\_\* fact and dimension tables: SDR\_CALL\_DISPOSITION.FINAL\_DISPOSITION, SDR\_SESSION\_FACT.SDR\_SURVEY\_QUESTIONS\_I1\_KEY, SDR\_SESSION\_FACT.SDR\_SURVEY\_QUESTIONS\_I2\_KEY, SDR\_SESSION\_FACT.SDR\_SURVEY\_QUESTIONS\_S1\_KEY, SDR\_SESSION\_FACT.SDR\_SURVEY\_QUESTIONS\_S2\_KEY, SDR\_SURVEY\_STATUS.OFFER.

## New in Release 8.5.006

- A new propagation rule, **IRF\_ROUTE**, enhances the flexibility of user-data reporting with the capability to store the final KVP value that is present during mediation, regardless of whether the call is abandoned in mediation or delivered to a handling resource (where additional changes might be made to the key's value).
- A new column, **TARGET\_ADDRESS**, has been added to the INTERACTION\_RESOURCE\_FACT (IRF) table. For voice interactions, if the IRF row represents a resource initiating an interaction or consultation, this column contains the target media address that received the interaction or consultation; otherwise, a null value is recorded in this column.
- In eServices outbound scenarios where an outbound interaction is originated outside the scope of eServices (for example, by OCS) and is placed into an Interaction Queue, an IRF record is now created when a strategy handles and completes the interaction without agent involvement. When user data changes initiated by the strategy are reported, they are associated with the new IRF record.

## New in Release 8.5.005

- Following the initial 8.5.005 release, starting with release 8.5.005.20, a new table, **SDR\_SURVEY\_TRANSCRIPT\_FACT**, has been added to the schema to support survey transcription data.
- Genesys Info Mart now supports reporting on Genesys Callback activity on voice, web, or mobile channels in all on-premises as well as Cloud deployments.

Callback applications provide Callback-related data that Genesys Info Mart processes and stores in dedicated tables, which were initially introduced in an earlier Genesys Info Mart release:

- **CALLBACK\_FACT**
- **CALLBACK\_DIM\_1**
- **CALLBACK\_DIM\_2**
- **CALLBACK\_DIM\_3**

Additionally, new values have been added to the following columns in conjunction with Callback support implementation:

- **OUTBOUND\_CALLBACK** in the INTERACTION\_TYPE.INTERACTION\_SUBTYPE column
- **DEFERRED** and **INCOMPLETE** in the TECHNICAL\_DESCRIPTOR.TECHNICAL\_RESULT column
- **CALLBACK\_ACCEPTED** in the TECHNICAL\_DESCRIPTOR.RESULT\_REASON column
- Additional schema changes support reporting on interaction flows that involve applications developed with Genesys Designer. (Support for Genesys Designer is available in certain Genesys Engage cloud implementations.) In particular:
  - The following new SDR\_\* fact and dimension tables, which are defined in the make\_gim.sql and make\_gim\_partitioned.sql scripts, have been added: SDR\_CUST\_ATTRIBUTES, SDR\_CUST\_ATTRIBUTES\_FACT, SDR\_SURVEY\_I1, SDR\_SURVEY\_I2, SDR\_SURVEY\_S1, SDR\_SURVEY\_S2, SDR\_SURVEY\_STATUS, SDR\_SURVEY\_SCORES.

## New in Release 8.5.004

- Genesys Info Mart now supports reporting on how much time a particular interaction was in focus (that is, actively being processed) on the agent desktop. Two new columns, FOCUS\_TIME\_COUNT and FOCUS\_TIME\_DURATION in the INTERACTION\_RESOURCE\_FACT (IRF) table, store focus time data.
- Genesys Info Mart now stores data that enables you to determine who ended a chat session. If a customer leaves the chat session before the agent, a new flag, called CUSTOMER\_LEFT\_FIRST, is added to the ANCHOR\_FLAGS dimension and is set in the IRF.ANCHOR\_FLAGS\_KEY field. For conference calls, the flag is set for each IRF record that is active when the customer left the chat session. The time when the customer left the chat, or the time when the agent stopped the chat session is stored in the IRF.IRF\_ANCHOR\_TS column. (IRF\_ANCHOR\_TS is the new name for the column that was called IRF\_ANCHOR\_SENT\_TS in release 8.5.003 and IRF\_ANCHOR\_DATE\_TIME\_KEY prior to that.) The IRF\_ANCHOR\_TS column is populated in each IRF record that is active when the customer leaves the chat session.
- In Outbound VoIP environments, with Outbound Contact campaigns running in an Active Switching Matrix (ASM) dialing mode, the time that the engaged agent is waiting to be connected to the customer (ASM engage duration) is now reported separately from regular talk time, if so configured. Two new columns, ASM\_COUNT and ASM\_ENGAGE\_DURATION in the IRF table, are populated based on the setting for the new configuration option, populate-irf-asm-engage-duration. (The default option value is false, which is the value in effect for the Cloud.) Genesys Info Mart requires that OCS attaches a special KVP, GSW\_CALL\_TYPE="ENGAGING", to identify engaging calls.
- To improve processing of user data that is attached during mediation, a new column, USERDATA\_FLAG, has been added to the MEDIATION\_SEGMENT\_FACT (MSF) table. This flag facilitates an unambiguous join between the MSF and fact extension tables to retrieve correct user data that is attached during mediation.
- The field IRF.LAST\_INTERACTION\_RESOURCE is now supported for all media types. Release 8.5.003 supported this field only for voice interactions. Prior to release 8.5.003, this field was reserved.
- Starting with release 8.5.003.17, to distinguish an agent from other persons in a contact center, a newly introduced value, Person, is set in the RESOURCE\_.RESOURCE\_SUBTYPE column for any persons who are not agents. The previously existing value, Agent, is now used in the RESOURCE\_.RESOURCE\_SUBTYPE column only to identify Agents (that is, the resources for whom the IsAgent flag is set in the Person configuration object). Both subtypes are associated with the Agent resource type that is stored in the RESOURCE\_.RESOURCE\_TYPE column.

## New in Release 8.5.003

- To enhance Tenant metrics to include active multimedia interactions that have not yet been handled, two new columns, ANCHOR\_ID and ANCHOR\_SDT\_KEY, are added to the INTERACTION\_FACT table. Values in these columns are derived as follows:
  - For interactions that have been completed or handled, Genesys Info Mart populates the value of ANCHOR\_ID based on the INTERACTION\_RESOURCE\_ID of the INTERACTION\_RESOURCE\_FACT (IRF) record with IRF\_ANCHOR = 1. The ANCHOR\_SDT\_KEY value in this case equals the START\_DATE\_TIME\_KEY of the same IRF record.
  - For active multimedia interactions that have not yet reached a handling resource (that is, are still in mediation), Genesys Info Mart populates the value of ANCHOR\_ID based on the MEDIATION\_SEGMENT\_ID of the MEDIATION\_SEGMENT\_FACT (MSF) record for the most recent mediation DN. The ANCHOR\_SDT\_KEY value in this case equals the START\_DATE\_TIME\_KEY of the same MSF record.

- To enable Unicode characters support on Oracle databases, the fields with the varchar data types now use the explicit CHAR character length semantics.
- To accommodate additional custom record fields with high cardinality values, 20 new columns (RECORD\_FIELD\_41 through RECORD\_FIELD\_60) of the varchar data type are added to the CONTACT\_ATTEMPT\_FACT table.
- A new column, CREATE\_AUDIT\_KEY, has been added to the SM\_MEDIA\_NEUTRAL\_STATE\_FACT table.
- In the INTERACTION\_RESOURCE\_FACT table, the name of the IRF\_ANCHOR\_DATE\_TIME\_KEY column is changed to IRF\_ANCHOR\_SENT\_TS.
- A previously reserved field, LAST\_INTERACTION\_RESOURCE, in the INTERACTION\_RESOURCE\_FACT table is now populated for voice interactions.
- New combinations in the TECHNICAL\_DESCRIPTOR table are added for multimedia online interactions that are placed into archive queues.
  - Completed/Archived/InConference/Unspecified
  - Completed/Archived/InConference/ConferenceInitiator
  - Completed/Archived/InConference/ConferenceJoined
  - Completed/Archived/InitiatedConsult/Unspecified
  - Completed/Archived/ReceivedConsult/Unspecified
  - Completed/Archived/ReceivedRequest/Unspecified
  - Completed/Canceled/InConference/Unspecified
  - Completed/Canceled/InConference/ConferenceInitiator
  - Completed/Canceled/InConference/ConferenceJoined
  - Completed/Canceled/InitiatedConsult/Unspecified
  - Completed/Canceled/ReceivedConsult/Unspecified
  - Completed/Canceled/ReceivedRequest/Unspecified
- Subsequent to the changes that were originally introduced in release 8.1.402, this release includes additional schema changes to prepare for support of additional interaction flows, such as the Voice Callback feature of Genesys Mobile Services.
  - PUSH\_DELIVERY\_CONFIRMED\_TS field has been added to the CALLBACK\_FACT table.
  - CUSTOMER\_READY\_TO\_START\_IXN\_TS field has been added to the CALLBACK\_FACT table.
  - DESIRED\_TIME field in the CALLBACK\_FACT table has been renamed to DESIRED\_TIME\_TS.
  - A constraint, NOT NULL, has been added for the DESIRED\_TIME\_TS field (with a default value of 0).
- For the deployments that rely on Genesys Info Mart for reporting on Post-Call Survey user data, new tables can be added to the Info Mart installation database by using the appropriate post-call survey script (**make\_gim\_post\_call\_survey.sql**, **make\_gim\_post\_call\_survey\_partitioned.sql**, **make\_gim\_post\_call\_survey\_multilang.sql**, or **make\_gim\_post\_call\_survey\_multilang\_partitioned.sql**).

## New in Release 8.5.002

- To provide Call Detail Record (CDR) data, a new database view, CDR, has been added to the Info Mart schema. The CDR view is based on the INTERACTION\_RESOURCE\_FACT table and MEDIA\_TYPE, INTERACTION\_TYPE, RESOURCE\_, TECHNICAL\_DESCRIPTOR, and DATE\_TIME dimension tables. The DATE\_TIME dimension is presented as a new CDR\_DATE\_TIME view, for purposes of CDR data reporting.

## New in Release 8.5.001

- To assist in exporting and archiving data, audit keys (CREATE\_AUDIT\_KEY and UPDATE\_AUDIT\_KEY) have been added to user-data fact extension tables:
  - IRF\_USER\_DATA\_CUST\_1
  - IRF\_USER\_DATA\_GEN\_1
  - IRF\_USER\_DATA\_KEYS
- To improve performance for downstream reporting applications, organization of the user-data fact and dimension tables has been changed to a clustered model (referred to as index-organized in Oracle).
- A new role reason and technical result reason, IntroducedTransfer, identify IRFs for agents involved in an introduced transfer. For information about when a conference qualifies as an introduced transfer, see the description of the new configuration option, introduced-transfer-threshold.
- A new interaction subtype, InternalConferenceInvite, supports simplified, more meaningful reporting on chat conferences or consultations through a queue, by identifying the subordinate interactions that the agent desktop uses to implement the interaction flow.
- Support for reporting on chat consultations affects the population of various IRF metrics.
- Population of thread-related columns in the ANCHOR\_FLAGS table is no longer enabled by default.
- The initial 8.5.001 release includes schema and configuration changes to prepare Genesys Info Mart to support reporting on interaction flows that involve applications developed with Genesys Designer. In addition, release 8.1.402.07 included schema and configuration changes to prepare Genesys Info Mart to support additional interaction flows, such as the Voice Callback feature of Genesys Mobile Services. The following observable changes in the Info Mart schema support functionality in a future release:
  - New SDR\_\* fact and dimension tables
  - A new CALLBACK\_FACT table and new callback dimension tables (CALLBACK\_DIM\_1, CALLBACK\_DIM\_2, CALLBACK\_DIM\_3)
  - User data mapping for additional KVPs