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# Reporting and Analytics Aggregates Physical Data Model for a Microsoft SQL Server Database

Table AGT\_AGENT\_HOUR

# Table AGT\_AGENT\_HOUR

## Description

In partitioned databases, this table is not partitioned.

This disposition-based aggregate table provides a rollup of agent handling of interactions, based on key business attributes such as customer segment, service type, and service subtype. Rollups are derived primarily from the INTERACTION\_RESOURCE\_FACT table. An inner join to IRF\_USER\_DATA\_GEN\_1 provides aggregated data that is dimensioned by revenue and customer satisfaction.

Within this table, these two sets of fields are stored as integers. Numeric data only should be written to these fields. In the source IRF\_USER\_DATA\_GEN\_1 table, they are stored in character format. Refer to “Check for Incorrect Data Type” in the *Reporting and Analytics Aggregates User’s Guide* to learn how to recover from situations where RAA attempts to aggregate nonnumeric data.

Where so indicated, the measures in this table include either warm consult interactions or simple consult interactions. Warm consult interactions, or warm consultations, refer to those consultations that result in a transfer to or conference with the agent. Simple consultations are consult interactions that begin and end in consult.

Measures are attributed to the interval in which interactions were offered to the agent.

Interactions that occur at DNs that have no associated agent are excluded from this table. No consideration is made as to whether interactions were distributed from a queue or directly routed from the switch. Aggregation is performed along the TENANT, DATE\_TIME, RESOURCE\_, RESOURCE\_GROUP\_COMBINATION, MEDIA\_TYPE, INTERACTION\_TYPE, INTERACTION\_DESCRIPTOR, and USER\_DATA\_CUST\_DIM dimensions. The combination of keys to these dimensions uniquely identifies records in this table.

The same columns and column descriptions apply to other AGT\_AGENT\_\* tables.

### Tip

- This document shows *table* information because it is more informative than *view* information. However, directly querying tables is not supported; perform your queries

on views.

- This document shows the HOUR structure for each table, as an example. For each table, the same structure is used for SUBHR through YEAR views.
- Where referenced, IRF resources include:
  - Handling resources (such as self-service IVR ports, agents, or non-agent-associated DNS)
  - Mediation resources (such as a non-self-service IVR ports, voice treatment ports, ACD queues, routing points, and so forth) where the interaction ends in mediation before being distributed to a handling resource.
- *IRF* is an abbreviation for the [INTERACTION\\_RESOURCE\\_FACT](#) table.
- *MSF* is an abbreviation for the [MEDIATION\\_SEGMENT\\_FACT](#) table.

### Tip

To assist you in preparing supplementary documentation, click the following link to download a comma-separated text file containing information such as the data types and descriptions for all columns in this table: [Download a CSV file](#).

**Hint:** For easiest viewing, open the downloaded CSV file in Excel and adjust settings for column widths, text wrapping, and so on as desired. Depending on your browser and other system settings, you might need to save the file to your desktop first.

## Column List

### Legend

Column	Data Type	P	M	F	DV
<a href="#">AGR_SET_KEY</a>	int			X	
<a href="#">DATE_TIME_KEY</a>	int				-1
<a href="#">GROUP_COMBINATION_KEY</a>	int				-1
<a href="#">RESOURCE_KEY</a>	int			X	-1
<a href="#">INTERACTION_DESCRIPTOR_KEY</a>	int			X	-1
<a href="#">TENANT_KEY</a>	int			X	-1
<a href="#">MEDIA_TYPE_KEY</a>	int			X	-1
<a href="#">INTERACTION_TYPE_KEY</a>	int			X	-1

Table AGT\_AGENT\_HOUR

Column	Data Type	P	M	F	DV
USER_DATA_KEY1	int				-1
USER_DATA_KEY2	int				-1
USER_DATA_GEN_KEY1	int				-1
USER_DATA_GEN_KEY2	int				-1
POST_CALL_SURVEY_KEY1	int				-1
POST_CALL_SURVEY_KEY2	int				-1
ACCEPTED_THREAD	numeric(18,0)				
FOCUS	int				
FOCUS_TIME	int				
ACCEPTED_UNIQUE	numeric(18,0)				
ACCEPTED	numeric(18,0)				
NOTACCEPTED	numeric(18,0)				
OFFERED	numeric(18,0)				
RESPONDED_THREAD	numeric(18,0)				
RESPONDED_UNIQUE	numeric(18,0)				
RESPONSES	numeric(18,0)				
ABANDONED_INVITE	numeric(18,0)				
REJECTED	numeric(18,0)				
INVITE	numeric(18,0)				
INVITE_TIME	numeric(18,0)				
ENGAGE_TIME	numeric(18,0)				
ENGAGE	numeric(18,0)				
SHORT	numeric(18,0)				
HOLD_TIME	numeric(18,0)				
HOLD	numeric(18,0)				
WRAP_TIME	numeric(18,0)				
WRAP	numeric(18,0)				
CONSULT_RECEIVED_ENGAGE_TIME	numeric(18,0)				
CONSULT_RECEIVED_ACCEPTED	numeric(18,0)				
CONSULT_RESPONSES	numeric(18,0)				
CONSULT_RECEIVED_HOLD_TIME	numeric(18,0)				
CONSULT_RECEIVED_HOLD	numeric(18,0)				
CONSULT_RECEIVED_WRAP_TIME	numeric(18,0)				
CONSULT_RECEIVED_WRAP	numeric(18,0)				
CONSULT_RCV_WARM_ENGAGE_TIME	numeric(18,0)				
CONSULT_RCV_ACCEPTED	numeric(18,0)				
CONSULT_RCV_WARM_HOLD_TIME	numeric(18,0)				

Table AGT\_AGENT\_HOUR

Column	Data Type	P	M	F	DV
CONSULT_RCV_WARM_HOLD	numeric(18,0)				
CONSULT_RCV_WARM_HOLD_TIME	numeric(18,0)				
CONSULT_RCV_WARM_HOLD	numeric(18,0)				
CONSULT_INITIATED	numeric(18,0)				
CONSULT_INITIATED_TIME	numeric(18,0)				
CONFERENCE_INITIATED	numeric(18,0)				
CONFERENCE_RECEIVED_ACCEPTED	numeric(18,0)				
TRANSFER_INIT_AGENT	numeric(18,0)				
XFER_RECEIVED_ACCEPTED	numeric(18,0)				
SATISFACTION_OFFERED	numeric(18,0)				
SATISFACTION	numeric(18,0)				
REVENUE_OFFERED	numeric(18,0)				
REVENUE	numeric(18,0)				
AGENT_DISCONNECT_FIRST	numeric(18,0)				
ACTIONABILITY_OFFERED	numeric(18,0)				
ACTIONABILITY	numeric(18,0)				
SENTIMENT_OFFERED	numeric(18,0)				
SENTIMENT	numeric(18,0)				
INFLUENCE_OFFERED	numeric(18,0)				
INFLUENCE	numeric(18,0)				
XFER_INITIATED_WARM	numeric(18,0)				
XFER_RECEIVED	numeric(18,0)				
XFER_ACCEPTED_WARM	numeric(18,0)				
XFER_ACCEPTED_ENGAGE_TIME	numeric(18,0)				
XFER_ACCEPTED_HOLD_TIME	numeric(18,0)				
XFER_INITIATED_ENGAGE_TIME	numeric(18,0)				
CONFERENCE_RECEIVED	numeric(18,0)				
CONF_ACCEPTED_ENGAGE_TIME	numeric(18,0)				
CONF_ACCEPTED_HOLD_TIME	numeric(18,0)				
CONSULT_RECEIVED	numeric(18,0)				

## AGR\_SET\_KEY

The surrogate key that is used to join this aggregate table to the AGR\_SET table.

## DATE\_TIME\_KEY

The surrogate key that is used to join this aggregate table to the DATE\_TIME dimension table to

identify the calendar date and 15-minute interval at which the agent's participation in the interaction began.

### GROUP\_COMBINATION\_KEY

The surrogate key that is used to join records in this aggregate table to the RESOURCE\_GROUP\_COMBINATION dimension table to identify a specific combination of queue groups of which the queue was a member when the interaction entered the queue.

### RESOURCE\_KEY

The surrogate key that is used to join this aggregate table to the RESOURCE\_ dimension table.

### INTERACTION\_DESCRIPTOR\_KEY

The surrogate key that is used to join this aggregate table to the INTERACTION\_DESCRIPTOR dimension table to identify the business attributes that have been assigned to the interaction.

### TENANT\_KEY

The surrogate key that is used to join this aggregate table to the TENANT view to identify a specific tenant.

### MEDIA\_TYPE\_KEY

The surrogate key that is used to join this aggregate table to the MEDIA\_TYPE dimension table.

### INTERACTION\_TYPE\_KEY

The surrogate key that is used to join this aggregate table to the INTERACTION\_TYPE dimension table.

### USER\_DATA\_KEY1

The surrogate key that is used to join this aggregate table to a custom user-data dimension table to identify attached data that has been assigned to the interaction.

If you engage the social-media feature, RAA maps this field to GEN\_ES\_KEY in the IRF\_USER\_DATA\_KEYS table.

## USER\_DATA\_KEY2

The surrogate key that is used to join this aggregate table to a custom user-data dimension table to identify attached data that has been assigned to the interaction.

## USER\_DATA\_GEN\_KEY1

**Introduced:** Release 8.5.011

The surrogate key that is used to join this aggregate table to a custom user data dimension table to identify attached data that has been assigned to the interaction. This attribute is populated only if the configuration option **user-data-gen-dim** is enabled.

## USER\_DATA\_GEN\_KEY2

**Introduced:** Release 8.5.011

The surrogate key that is used to join this aggregate table to a custom user data dimension table to identify attached data that has been assigned to the interaction. This attribute is populated only if the configuration option **user-data-gen-dim** is enabled.

## POST\_CALL\_SURVEY\_KEY1

The surrogate key that is used to join this aggregate table to the POST\_CALL\_SURVEY dimension table. This attribute is populated only if the configuration option **agg-feature:post-call-survey** is enabled.

## POST\_CALL\_SURVEY\_KEY2

The surrogate key that is used to join this aggregate table to the POST\_CALL\_SURVEY dimension table. This attribute is populated only if the configuration option **agg-feature:post-call-survey** is enabled.

## ACCEPTED\_THREAD

The total number of customer-interaction threads that were accepted, initiated, or pulled for the first time by this agent. This measure includes an agent's first participation in outbound replies to inbound interactions and yields the same values as ACCEPTED\_UNIQUE for media other than e-mail.

## FOCUS

The total number of times that the agent was in the focus state while working on media sessions. Includes only cases where the agent was actively working on the interaction that is the subject of the IRF, and requires that WDE has been configured to report focus time.

## FOCUS\_TIME

The total time, in seconds, that the agent spent in the focus state while working on media sessions. Includes only time that the agent spent actively processing the interaction, as reported by the agent desktop.

## ACCEPTED\_UNIQUE

The total number of logical interactions that were accepted, initiated, or pulled by this agent. This measure includes an agent's first participation in outbound replies to inbound interactions.

## ACCEPTED

The total number of times that customer interactions or warm consultations were accepted, answered, pulled, or initiated by this agent.

For voice media, this measure is identical to RESPONSES.

## NOTACCEPTED

The total number of times that customer interactions were redirected to another resource upon no answer by this agent or were otherwise not accepted or answered by this agent. This measure includes interactions that the customer abandoned while they were alerting at the agent.

## OFFERED

The total number of times that interactions were received or initiated by an agent. The count includes interactions that were abandoned while inviting, handling attempts that the agent rejected, and warm consultations and conferences that the agent received. This count excludes simple consultations, whether they were initiated or received.

## RESPONDED\_THREAD

The total number of customer-interaction threads for which a first-time response was created by this agent. This measure includes an agent's first participation in outbound replies to inbound interactions.

## RESPONDED\_UNIQUE

The total number of first-time outbound replies in which this agent participated in response to customer interactions. Any number of replies could be prepared in response to a customer interaction. This measure attributes only the first-connected reply to this agent, regardless of whether the reply was sent. This measure excludes outbound replies to consultations, outbound replies that the agent pulled from his/her personal workbin or rejected, and system-generated



responses.

## RESPONSES

For voice and chat media, this measure represents the total number of times that customer interactions or warm consultations were answered or accepted by this agent. For voice media, this measure is identical to ACCEPTED; it returns positive values when agents initiate calls.

For e-mail, this measure represents the total number of times that the agent prepared an outbound reply.

## ABANDONED\_INVITE

The total number of times that customer interactions were abandoned or dropped for any reason while the interactions were alerting or ringing at this agent.

## REJECTED

The total number of times that customer interactions alerted at an agent that belong to this agent group and were not accepted or answered.

## INVITE

The total number of customer interactions that alerted or rang at this agent before the interactions were accepted, answered, or pulled plus the total number of dials that the agent performed, where the calls were successfully established. This measure is attributed to the interval in which the alerting/dialing first occurred.

The dialing component of this measure applies to voice media only.

## INVITE\_TIME

The total amount of time, in seconds, that customer interactions alerted at this agent plus the total duration of the dialing that the agent performed. For the alerting component of this measure, interactions do not have to be established for this measure to be incremented. For the dialing component, dial duration is measured for established calls only. This measure is attributed to the interval in which the alerting/dialing first occurred.

## ENGAGE\_TIME

The total amount of time, in seconds, that this agent was engaged with customers on interactions that the agent received. This measure excludes other interaction-related durations, such as hold time, ACW (Wrap) time, alert (ring) time, and time that is spent in collaboration or consultation.

## ENGAGE

The total number of interactions for which this agent was engaged with customers for interactions that the agent received. This measure excludes other interaction-related counts, such as holds, instances of ACW, and collaborations and consultations that the agent received.

## SHORT

The total number of times that customer interactions were accepted by this agent and then released, transferred, or stopped within the short-engagement threshold.

This measure relies on the value of **short-engagement** (short-talk) as configured in the **[agg-gim-thld-AGENT-IXN]** section.

## HOLD\_TIME

The total amount of time, in seconds, that this agent had customer interactions on hold.

## HOLD

The total number of customer interactions that this agent had on hold.

## WRAP\_TIME

The total amount of time, in seconds, that this agent was in ACW state for customer interactions that the agent received. This measure is attributed to the interval in which the agent was offered the interaction for which ACW was invoked.

## WRAP

The total number of times that this agent was in ACW state for customer interactions that the agent received. This measure is attributed to the interval in which the agent was offered the interactions for which ACW was invoked.

## CONSULT\_RECEIVED\_ENGAGE\_TIME

The total amount of time, in seconds, that this agent was engaged in collaborations or simple consultations where the agents were the recipients of the collaboration/consultation requests and the collaborations/consultations were associated with customer interactions.

## CONSULT\_RECEIVED\_ACCEPTED

The total number of times that this agent received and accepted collaborations or simple consultations that were associated with customer interactions.

## CONSULT\_RESPONSES

For e-mail, the total number of collaboration replies that were initiated by this agent. For voice, this measure is the same as CONSULT\_RECEIVED\_ACCEPTED.

## CONSULT\_RECEIVED\_HOLD\_TIME

The total amount of time, in seconds, that this agent had collaborations or simple consultations on hold, where the collaborations/consultations were associated with customer interactions and the agent was the recipient of the collaboration/consultation requests.

## CONSULT\_RECEIVED\_HOLD

The total number of times that this agent was on hold during simple consultations that the agent received where the consultations were associated with customer interactions.

## CONSULT\_RECEIVED\_WRAP\_TIME

The total amount of time, in seconds, that this agent was in ACW (Wrap) state after simple consultations that the agent accepted, where the consultations were associated with customer calls. This duration does not stop if the agents received or made calls while in ACW state. This measure is attributed to the interval in which this agent was offered the consult interaction for which ACW was invoked.

## CONSULT\_RECEIVED\_WRAP

The total number of times that this agent was in ACW state after requests for simple consultation that the agent accepted where the consultations were associated with customer interactions.

## CONSULT\_RCV\_WARM\_ENGAGE\_TIME

The total amount of time, in seconds, that this agent was engaged in consultations that the agent received where the consultations were associated with customer interactions and the interactions were transferred to or conferenced with this agent.

### CONSULT\_RCV\_ACC\_WARM

The total number of times that this agent participated in consultations that the agent received, where the consultations were associated with customer interactions that were transferred to or conferenced with the agent.

### CONSULT\_RCV\_WARM\_HOLD\_TIME

The total amount of time, in seconds, that this agent had consultations on hold where the consultations were associated with customer interactions, the agent was the recipient of the consultation requests, and the interactions were transferred to or conferenced with the agent.

### CONSULT\_RCV\_WARM\_HOLD

The total number of consultations that this agent had on hold where the consultations were associated with customer interactions, the agent was the recipient of the consultation requests, and the interactions were transferred to or conferenced with the agent.

### CONSULT\_RCV\_WARM\_WRAP\_TIME

The total amount of time, in seconds, that this agent spent in ACW state following consultations that the agent requested and received, where the consultations were associated with customer interactions that were transferred to or conferenced with this agent.

In common call-flow scenarios, this measure yields a value of zero.

### CONSULT\_RCV\_WARM\_WRAP

The total number of times that this agent was in ACW state following consultations that the agent requested and received, where the consultations were associated with customer interactions and the interactions were transferred to or conferenced with the agent.

This measure includes:

- ACW that was associated with conferences, where the customer leaves the interactions
- Internal contact center interactions, where interactions were transferred to the agent.

In common call-flow scenarios, this measure yields a value of zero.

### CONSULT\_INITIATED

The total number of times that this agent initiated requests for collaboration or simple consultation, where the collaborations/consultations were established and associated with customer interactions.

## CONSULT\_INITIATED\_TIME

The total amount of time, in seconds, that this agent was engaged in collaborations or simple consultations that the agent requested, where the collaborations/consultations were associated with customer interactions.

## CONFERENCE\_INITIATED

The total number of times that this agent initiated conferences for customer interactions that the agent received, where the conferences were established. The count includes the number of established conferences that were initiated for transferred interactions that the agent received.

## CONFERENCE\_RECEIVED\_ACCEPTED

The total number of times that this agent received and accepted collaborations or simple consultations that were associated with customer interactions.

## TRANSFER\_INIT\_AGENT

The total number of times that this agent transferred customer interactions. Both warm and blind transfers are reflected in this measure.

## XFER\_RECEIVED\_ACCEPTED

The total number of times that this agent received customer interactions that were successfully transferred to the agent. Both warm and blind transfers are reflected in this measure.

## SATISFACTION\_OFFERED

The total number of customer interactions handled by this agent for which customer-satisfaction scores were recorded.

## SATISFACTION

The sum of numerical scores of customer satisfaction that were attributed to customer interactions handled by this agent.

## REVENUE\_OFFERED

The total number of customer interactions that entered or began within the contact center, were handled by this agent, and had associated revenue.

## REVENUE

The total revenue that is generated during the interval by customer interactions handled by this agent.

## AGENT\_DISCONNECT\_FIRST

The total number of times during the reporting interval that this agent released customer interactions before the other party did. The tally is incremented only when the system (such as the switch) provides such information.

## ACTIONABILITY\_OFFERED

The total number of customer interactions that were offered to, pulled, or initiated by this agent for whom an actionability score was attached. Actionability scores measure the degree to which interactions required agent attention.

## ACTIONABILITY

The sum of actionability scores attached to customer interactions that were handled by this agent.

## SENTIMENT\_OFFERED

The total number of customer interactions that were offered to, pulled, or initiated by this agent for whom a sentiment score was attached. Sentiment scores reflect the attitude expressed by customers.

## SENTIMENT

The sum of sentiment scores attached to customer interactions that were handled by this agent.

## INFLUENCE\_OFFERED

The total number of customer interactions that were offered to, pulled, or initiated by this agent for whom an influence score was attached. Influence scores represent the clout that the customer amassed on social networks.

## INFLUENCE

The sum of influence scores attached to customer interactions that were handled by this agent.

## XFER\_INITIATED\_WARM

**Introduced:** Release 100.0.011.0100  
Total number of warm transfers initiated by the agent.

## XFER\_RECEIVED

**Introduced:** Release 100.0.011.0100  
Total number of times that customer interactions were successfully transferred to the agent.

## XFER\_ACCEPTED\_WARM

**Introduced:** Release 100.0.011.0100  
Total number of times that customer interactions were successfully warm transferred to and accepted by the agent.

## XFER\_ACCEPTED\_ENGAGE\_TIME

**Introduced:** Release 100.0.011.0100  
Total amount of time that the agent was engaged with customers on interactions that arrived by transfer and were accepted by the agent.

## XFER\_ACCEPTED\_HOLD\_TIME

**Introduced:** Release 100.0.011.0100  
Total amount of time that the agent had customers on hold for interactions that arrived by transfer and were accepted by the agent.

## XFER\_INITIATED\_ENGAGE\_TIME

**Introduced:** Release 100.0.011.0100  
The amount of time that the agent was engaged with an interaction before initiating a transfer.

## CONFERENCE\_RECEIVED

**Introduced:** Release 100.0.011.0100  
Total number of times that conference interactions were received and accepted by the agent.

## CONF\_ACCEPTED\_ENGAGE\_TIME

**Introduced:** Release 100.0.011.0100  
Total time the that agent spent engaged with customers in interactions that arrived by transfer and

were accepted by the agent.

## CONF\_ACCEPTED\_HOLD\_TIME

**Introduced:** Release 100.0.011.0100

The total amount of time, in seconds, that the agent put on hold a conference that he/she joined.

## CONSULT\_RECEIVED

**Introduced:** Release 100.0.011.0100

Total number of times that collaborations/consultations associated with interactions were received by the agent.

## Subject Areas

- **AGT\_AGENT** — Represents agent handling of interactions.