

# INTELLIGENT WORKLOAD DISTRIBUTION DATA MART

# **Reference Guide**

May 2009 iWD DM 7.6.1

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### **Revision History**

Version	Issued	Description				
1.4.1	18.06.2008	First Draft Release for GTL release 1.4				
1.4.2	30.07.2008	Second Draft Release for GTL 1.4				
1.4.3	23.09.2008	Final Release for GTL 1.4.14				
1.6.1	08.04.2009	Final Release for GTL 1.6.6				
7.6.1.1	16.04.2009	Rebranding to iWD 7.6.1				
7.6.1.2	20.05.2009	Final release for iWD 7.6.1				

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# Preface

Welcome to the *Reference Guide* for *intelligent Workload Distribution Data Mart*. This document introduces you to the schemas that compose the intelligent Workload Distribution Data Mart, or iWD Data Mart, to guide you in the design and creation of reports using the data within the iWD Data Mart.

This preface provides an overview of this guide, identifies the primary audience, introduces document conventions, and lists related reference information:

- Intended Audience
- Recommended Reading
- Chapter Summaries
- Document Conventions
- Related Resources

In brief, you will find the following information about iWD Data Mart in this reference guide:

- iWD and iWD Reporting Overview
- iWD Data Mart Facts, Dimensions, Aggregates, and Views
- iWD ETL Jobs

### **Intended Audience**

This guide is intended for reporting and business analysts who want to leverage the data that is contained in the iWD Data Mart to produce reports and dashboards for business users. It is also intended for IT Administrators who would like to gain an understanding of the components that enable iWD Data Mart.

This reference guide assumes that the reader has an understanding of relational database concepts, Structured Query Language (SQL) for analyzing and mining the data, iWD, and data warehouse concepts - including working with star schemas, aggregates, and ETL concepts.

### **Recommended Reading**

Genesys iWD Data Mart uses Kettle, a third-party ETL open-source product from Pentaho, the leader in open-source business intelligence. For more information on Kettle, please visit <u>www.pentaho.com</u>.

In addition, the reader is encouraged to read iWD product documentation to gain an understanding of the concepts in iWD, particularly an emphasis on the various task states that are used heavily in reporting and in the creation of many iWD Data Mart measures.

As comprehensive task and interaction reports can be made available by leveraging data from iWD Data Mart and Genesys Info Mart, the reader is encouraged to review the product and reference guide documentation, specifically the *Genesys Info Mart User's Guide* and the *Reference Guides* that are provided by your Genesys account team or partner.

### **Chapter Summaries**

In addition to this preface, this guide contains the following chapters:

- Chapter 1: iWD Reporting
- Chapter 2: iWD Data Mart
- Chapter 3: ETL Overview

### **Document Conventions**

This document uses the following stylistic and typographical conventions, which serve to identify specific types of information:

### **Type Styles**

#### Italic

In this document, italic text denotes emphasis, document titles, definitions of (or first references to) unfamiliar terms, and mathematical variables. For example:

- Please consult the *intelligent Workload Distribution Manager User Guide* for more information.
- *Do not use* this value for this option.
- The formula, x + 1 = 7 where x stands for . . .

### **Monospace Font**

A monospace font, which resembles teletype or typewriter text, is used for all programming identifiers and graphical user interface (GUI) elements. This convention includes the names of directories, files, folders, configuration objects, paths, scripts, dialog boxes, options, fields, text and list boxes, operational modes, all buttons (including radio buttons), check boxes, commands, tabs, CTI events, and error messages; the values of options; logical arguments and command syntax; and code samples. For example:

- Select the Default check box.
- Click the Edit button.
- In the Properties dialog box, enter the value for the host server in your environment.
- Click OK to exit the Properties dialog box.

Monospace is also used for any text that users must manually enter during a configuration or installation procedure, or on a command line. For example: Enter exit on the command line.

### Screen Captures in This Document

Screen captures of the product UI, as used in this document, can sometimes contain a minor spelling, capitalization, or grammatical error. The text that accompanies and explains each screen capture corrects such errors, *except* when such a correction might prevent you from installing, configuring, or successfully using the product. For example, if the name of an option contains a usage error, the name is presented exactly as it appears in the product GUI, without correction in any accompanying text.

### **Square Brackets**

Square brackets indicate that a specific parameter or value is optional within a logical argument, a command, or some programming syntax. That is, the parameter's or value's presence is not required to resolve the argument, command, or block of code. You decide (or the user decides) whether to include this optional information. For example: smcp\_server -host [/flags]

## Angle Brackets

Angle brackets indicate a placeholder for a value that you (or the user) must specify. This might be a DN or port number that is specific to your enterprise. For example: smcp server -host <confighost>

### **Related Resources**

Consult these additional resources, as necessary:

- iWD Online Help
- *iWD User Guide*

# **Chapter 1: iWD Reporting**

This chapter explains the reporting functionality that is available within *intelligent Workload Distribution*. The information in this chapter is organized in the following topics:

- What Is intelligent Workload Distribution?
- <u>iWD Reporting</u>
- <u>iWD Task Attributes</u>

### What Is intelligent Workload Distribution?

Designed as a business application for business users, Genesys intelligent Workload Distribution (iWD), works in concert with telephony and unified communication applications - enabling a centralized service-delivery platform, and proactively managing interactions and tasks across all channels and media.

Only with a global task list, sorted based on business value, can the enterprise ensure that the right resources - regardless of location - are proactively receiving the most critical or highest value tasks - regardless of media type - at the right time. The abilities to react quickly with new business intelligence and to work effectively are key success factors with any enterprise in today's competitive marketplace.

iWD supports three main areas: capturing tasks, calculating task values, and distributing tasks.



#### Task Capture

To address the challenge of tasks stored across multiple enterprise systems, iWD accepts work - in electronic format - from a broad range of applications, such as customer relationship management, workflow, host systems, and enterprise service bus systems.

#### Calculate

By using business rules that are configured by business users, iWD calculates servicelevel values like task due date, business value, and priority. By using these values, iWD orders tasks from most to least important, and monitors and proactively manages tasks to ensure compliance with service-level objectives.

#### Distribute

iWD distributes tasks to front - or back-office resources, or to external partners like business process outsourcers, working in concert with existing call center applications, such as the Genesys Dynamic Contact Center and Unified Communication applications.

#### **Enabling Genesys BPR Solutions**

Genesys iWD enables Genesys BPR solutions, providing out-of-the-box functionality designed for the business user and with the business context organizations, while eliminating the need for expensive and risky custom development.

As a Genesys InterWorks Application, iWD integrates using Genesys Open Media to submit tasks by using a iWD Distribution Point. The Genesys Distribution Point and functionality within Genesys Universal Router enable blending of tasks that are submitted with voice calls and routing to agents in a common manner. The configuration of a distribution point does not require any complex coding and is a configuration of key parameters, such as Genesys Open Media Queue, that will receive the distributed task from iWD.

The distribution adapter for Genesys Open Media is fully bidirectional, ensuring that any task update or any attribute that is attached to the task interaction in Genesys, such as result code, can be returned and recorded for use in historical reporting and trend analysis.

In addition to the Open Media integration, iWD provides a real-time statistics interface to Genesys Statistics Server, providing call-center managers a single view of interactions and tasks in CCPulse+, to ensure a single application providing relevant and timely statistics on agent and operational performance in real time. More information on this interface and functionality can be found in the *iWD User Guide*.



For historical reporting, iWD Data Mart and Genesys Info Mart work in concert to provide the enterprise with comprehensive management information for intraday and historical reporting and trend analysis. Further details on iWD Data Mart are provided

in this document, and the reader is encouraged to consult the *Genesys Info Mart Reference Guide* for further details on this Genesys product offering. Clients who have adopted iWD to enable their Genesys BPR Solution have realized shorter time to market, lower project risk, and increased level of functionality when compared to custom development.

### iWD Reporting

As customers have increased choice in the marketplace and have higher expectations of service quality, the ability to measure the efficiency and effectiveness of customer service delivery is a key component of success. iWD provides the harmony to an often-cumbersome reporting process through:

- Cradle-to-grave reporting from the time that the fax, e-mail or document is received to its completion.
- Consolidated reporting across the various systems that are involved in customer service delivery fax servers, workflow, customer relationship management, and Genesys Customer Interaction Management.
- Reporting that is based on a business context with business process, customer segment, and product independent of channel, instead of being limited to interactions, and queues, channels, and workflows.

Key to achieving business results is having access to actionable business intelligence. Genesys iWD offers a comprehensive reporting functionality into business operations and performance against metrics and key performance indicators - in both real time through Real-Time Statistics and Historical, based on scheduled ETL process from Runtime to iWD Data Mart. The following diagram provides a functional overview of iWD Reporting components, with details provided in the sections that follow:



iWD Reporting Overview

Please note that each iWD tenant solution requires its own Data Mart database.

### Historical& Analytics

iWD Data Mart enables advanced reports and dashboards, providing users the ability to customize reports via report parameters and filters. Managers gain insight through dashboards, which offer a summary on performance against key performance indicators and an ability to view performance trends over time. The sample iWD Dashboard widgets that are provided can be incorporated into existing dashboards - providing a unified view of organization performance from one portal - or can be utilized as a guide for creating additional dashboard widgets to suit the specific needs of your operation.

Delivery: % withi Process	in SLA Actual	Targe	t	Average, la	ist 30 days		Efficiency: Task W	ork-Ti	Target	
and the second			-			* *	Process	(sec)	(sec)	Average, last 30 days
Abandoned Order	0% 🥥	90%			********		Abandoned Order	318 🔘	333	
Catalog Request	100% 🔘	66%	M	. And			Catalog Request	101 🔍	123	*** **** *****************************
Complaint	100% 🔘	89%		l	VVV	*****		1000000		************************************
CRM Follow-Up	100% 🔘	90%	1.	1 /	11.	1.	Complaint	100 🔍	332	········
Customer Address	100% 🔘	90%	1/1		······································	~	CRM Follow-Up	281 🥥	123	
Change Customer Call Back	100% 🔘	97%	1			~	Customer Address Change	101 🔘	124	······································
Information Request	100% •	69%		$\frac{1}{\sqrt{1}}$		**	Customer Call Back	163 🔘	555	exercises Mary Mar
Order	100% 🔘	99%	M	···· · ···	VV	~~~	Information Request	99 🔘	222	·····
Service Request	0% 🥥	80%	M		· · · ·	1.	Order	132 🥥	123	Anon Monto
Task Backlog <i>(curr</i> Process		GTL C	histributed	Avg Age (h)	Age Target	Overdue	Service Request	317 🥥	123	
Abandoned Order				ATT ACC (II)	2.00	Overdue	3			
Catalog Request		7	1	62.25 🥥	48.00	100%				
Complaint		1	1	42.25 0	24.00	0%				
CRM Follow-Up		3	3	62.50 🥥	48.00	100%				
Customer Address Change		50	0	62.61 🥥	48.00	100%				
Customer Call Back		5	2	62.25 🥥	48.00	100%				
Information Request		2	0	62.25 🔘	72.00	0%				
Order		3	2	62.25 🥥	6.00	100%				
Service Request		12	12	45.29 🔘	48.00	100%				

Sample iWD Dashboards

The information that is supplied in the dashboards above is retrieved from a comprehensive set of star schemas, which are designed specifically with a task-oriented business context. iWD Data Mart provides business analysts with summaries and aggregates that are required in support of business strategies through a combination of measures, fine-grained and aggregate fact tables, and dimensions, as shown below:



*iWD DataMart – Dimensions, Meausres and Facts* 

Not unlike other data warehouse, iWD Data Mart consists of the following:

- Dimensions Describe task attributes that are common across the Fact tables in iWD Data Mart, such as iWD Business Process, Priority, Business Value, Date, and Time. Fact tables link to dimensions through keys.
- Aggregated Fact tables Describe tasks in a iWD-oriented context across the various stages, or the iWD life cycle of the task from capture, classification, and distribution to agent and, of course, the age of tasks. These Fact tables are at an aggregate level, with each containing a number of measures.
- Measures Represent numerical values such as total, average, minimum, or maximum, that are stored in an Aggregated Fact table across intraday and historical intervals. For example, the total number of completed tasks by 15minute interval by iWD Process and Business Value would be measure in the intraday Capture Aggregate Fact table.
- Fine-Grained Fact tables Store all task attributes that are associated with the task (Task Fact table), any work-related events (Task Work Fact table) when the task was assigned to one or more agents, and task full audit history of the task (Task History Fact table).

When they are connected to existing enterprise DataMarts, including Genesys Info Mart, analysts gain access to comprehensive views of the entire customer experience. Analytical reporting leverages existing business-intelligence tools such as those that are provided by Pentaho, which is an open-source product suite for business intelligence, or through a host of commercial products from Cognos or Business Objects Crystal Reports.

### **iWD Extended Statistics**

Statistics are generated by Kettle plug-ins which are executed by Scheduled ETL service with Aggregate Statistics job.

Aggregate Statistics job reads stats.properties file and executes all listed plugins providing them 3 parameters:

- Solution ID
- Statistics Service ID
- Time interval key

Using these parameters plug-in can query facts, aggregated facts and dimensions to create required statistics.

There are 5	sample p	lug-ins p	provided in	standard	package:
-------------	----------	-----------	-------------	----------	----------

Filename	Description
contract_activeheld.ktr	Calculates amount of tasks in Active and Held states for each contract
contract_newcompleted.ktr	Calculates amount of new and completed tasks in last 15, 30 and 60 minutes for each contract
process_activeheld.ktr	Calculates amount of tasks in Active and Held states for each business process
process_pendingoverdue.ktr	Calculates amount of pending and overdue tasks for each business process
solution_newcompleted.ktr	Calculates amount of new and completed tasks in last 15, 30 and 60 minutes for current solution

There are embedded notes in process\_pendingoverdue.ktr for each step plug-in makes to compute statistics.

Statistics are written to DataMart database gtl stats table.

Structure of gtl stats table:

Attribute	MySQL Type	Oracle Type	Description
ID	INTEGER	INTEGER	Primary key
TENANTID	VARCHAR(16)	VARCHAR2(16)	iWD Manager ID of the tenant
SOLUTIONID	VARCHAR(16)	VARCHAR2(16)	iWD Manager ID of the solution
STATSERVICEID	VARCHAR(16)	VARCHAR2(16)	iWD Manager ID of Extended statistics service used to submit statistics to Genesys
DIMENSIONTYPE	VARCHAR(32)	VARCHAR2(32)	Dimension type (SLT - solution, CRT - contract, PRC - process)
DIMENSIONID	VARCHAR(64)	VARCHAR2(64)	Dimension ID. Used to generate Genesys statistics filters.
DIMENSIONNAME	VARCHAR(255)	VARCHAR2(255)	Not used by Extended statistics
MEASUREID	VARCHAR(64)	VARCHAR2(64)	Measure ID. Used to generate Genesys statistical types.
MEASURENAME	VARCHAR(255)	VARCHAR2(255)	Not used by Extended statistics
MEASUREVALUE	INTEGER	INTEGER	Measure value
ACTIVATIONDATETIME	DATETIME	TIMESTAMP	Not used by Extended statistics

Extended statistics service reads gtl\_stats table and submits statistics to Genesys using Genesys Statistics Adapter service.

Extended statistics service is using in-memory cache to store submitted statistics. Only statistics for new and updated dimensions are submitted to Genesys Statistics Adapter service.

Aggregate Statistics job does not create audit event in ETL\_AUDIT table.

### **iWD** Task Attributes

At the heart of iWD Reporting is a set of task attributes that describe the task and its association with the iWD business context, such as Business Process. Task attributes span across three categories:

- Core Attributes
- Extended Attributes
- <u>Custom Attributes</u>

An understanding of these attributes is a key to understanding the measures and aggregates in iWD Data Mart. Incorrect use or interpretation of these values can negatively affect reporting outcomes. Please consult the iWD User Guides for further information on these attributes.

### **Core Attributes**

Core attributes are at the heart of intelligent Workload Distribution in that they describe the fundamentals of a task and are used in assembling tasks in the global list, based on iWD Business Value and iWD Priority. These values are set automatically by iWD, or through iWD business rules, or they can be provided by the source system through iWD Web Service, MQ Series or a Capture adapter interface. Examples include iWD Process ID, Business Value, and Priority.

### **Extended Attributes**

These attributes are intended to provide additional task context - allowing customers to tailor the SLA rules for managing tasks on the global task list - and can aid in customizing real-time and historical reporting. For example, use of several capture dates allows an organization to measure organization performance against the date/time that an order or loan was received by the originating system or was submitted via a web form by the customer.

### **Custom Attributes**

In addition to the Core and Extended Attributes, iWD provides customers with the ability to submit additional task details through iWD Custom Attributes. These are key/value pairs and are provided by the source system. For example, a web form may contain several fields that not already mapped to one of the Core or Extended Attributes.

When they are submitted via a iWD Capture adapter such as iWD Web Service, XML file capture, or MQ Series, the values are stored in the iWD runtime database. They can also be mapped to Custom Dimensions in iWD Data Mart by defining mapping properties on the ETL configuration in iWD Manager – again, further extending the level of tailored reporting that is enabled by iWD Data Mart. For more information on how to utilize custom dimensions, please consult the iWD User Guide.

# **Chapter 2: iWD Data Mart**

Genesys iWD Data Mart comprises a set of star schemas that consist of Fact and Dimension tables. In a star schema, facts are the central table that contains the individual facts about a task. There are two types of fields in a fact table:

- Fields that store the foreign keys that connect each particular fact to the appropriate value in each dimension.
- Fields that store the individual facts (or measures), such as number, amount, or price.

There are three types of facts in iWD Data Mart, with data from intraday moved to historical on a 24-hour basis:

- Intraday Facts and aggregations for current day, used for near-real-time dashboards and reports
- Historical Historical facts and aggregations, used for historical and analytical reporting
- Blended Database views that combine intraday and historical facts

Surrounding a Fact table are Dimensions. Dimensions contain attributes about a task that are common across multiple tasks, such as date, time, iWD business process, or tenant. The combination of a fact and a set of dimensions create a star schema.

This chapter provides an overview of the facts and dimensions within iWD Data Mart:

- <u>iWD Data Mart Core Facts</u>
- <u>Aggregate Facts</u>
- <u>Dimensions</u>
- System Tables
- iWD Data Mart Views

### **iWD Data Mart Core Facts**

### Task Fact (task\_fact)

Task Fact describes a task from customer's perspective. Each iWD runtime task record will result in a single Task Fact. In the iWD DM database, Task Fact can be accessed via the following:

- i\_task\_fact Intraday data table
- h\_task\_fact Historical data table
- task\_fact Blended (historical and intraday) data view

The following is a view of the Task Facts that are listed above, with details on each provided in the tables below:

i_task_fact		
TASK_ID int		
SOLUTION KEY int		
LAST_TASK_EVENT_ID int		
CAPTURE_ID varchar(64)		
CURRENT_DISTRIBUTION_ID varchar(64)		
TENANT_KEY int		
CONTRACT_KEY int		
PROCESS_KEY int CAPTURE_POINT_KEY int		
CURRENT_DISTRIBUTION_POINT_KEY int		
CURRENT_QUEUE_KEY int		
CURRENT_QUEUE_TARGET_KEY int		
SOURCE_FIRST_CREATED_DATE_KEY int		
SOURCE_FIRST_CREATED_TIME_KEY int	i_task_work_fact	
SOURCE_CREATED_DATE_KEY int SOURCE_CREATED_TIME_KEY int	- ASSIGN_TASK_EVENT_ID int	
CREATED_DATE_KEY int	- SOLUTION_KEY int	
CREATED_TIME_KEY int	- TASK_ID int	
ACTIVATION_DATE_KEY int	- FINISH_TASK_EVENT_ID int	
ACTIVATION_TIME_KEY int	- IS_ABANDON int	i tack event fact
DUE_DATE_KEY int	- CAPTURE_ID varchar(64)	i_task_event_fact
DUE_TIME_KEY int	- DISTRIBUTION_ID varchar(64)	- TASK_EVENT_ID int
COMPLETED_DATE_KEY int	- TENANT_KEY int	- SOLUTION_KEY int - TASK ID int
COMPLETED_TIME_KEY int ASSIGNED DATE KEY int	- CONTRACT_KEY int - PROCESS KEY int	- TASK_ID mt - CAPTURE_ID varchar(64)
ASSIGNED_DATE_KEY int	- CAPTURE_POINT_KEY int	- DISTRIBUTION_ID varchar(64)
DISTRIBUTED_DATE_KEY int	- DISTRIBUTION_POINT_KEY int	- TASK_EVENT_TYPE_KEY int
DISTRIBUTED_TIME_KEY int	- QUEUE_KEY int	- DISTRIBUTION_POINT_KEY int
MEDIA_CHANNEL_KEY int	- ASSIGN_DATE_KEY int	- EVENT_DATE_KEY int
CATEGORY_KEY int	- ASSIGN_TIME_KEY int	- EVENT_TIME_KEY int
BUSINESS_VALUE_KEY int	- FINISH_DATE_KEY int	- STATUS_KEY int
CURRENT_PRIORITY_KEY int CURRENT_STATUS_KEY int	- FINISH_TIME_KEY int - MEDIA_CHANNEL_KEY int	- ACTIVATION_DATE_KEY int - ACTIVATION_TIME_KEY int
LAST_ASSIGNED_AGENT_KEY int	- CATEGORY_KEY int	- DUE_DATE_KEY int
LAST_RESULT_CODE_KEY int	- BUSINESS_VALUE_KEY int	- DUE TIME KEY int
CUSTOMER_KEY int	- PRIORITY_KEY int	- BUSINESS_VALUE_KEY int
CUSTOMER_SEGMENT_KEY int	- ASSIGNED_AGENT_KEY int	- PRIORITY_KEY int
PRODUCT_KEY int	- RESULT_CODE_KEY int	- RULE_KEY int
SOURCE_TENANT_KEY int	- CUSTOMER_KEY int	- ASSIGNED_AGENT_KEY int
SOURCE_PROCESS_KEY int	- CUSTOMER_SEGMENT_KEY int - PRODUCT KEY int	- RESULT_CODE_KEY int
REQUESTED_SKILL_KEY int REQUESTED AGENT KEY int	- SOURCE TENANT KEY int	- CONTRACT_KEY int - PROCESS KEY int
CUSTOM_DIM_KEY int	- SOURCE_PROCESS_KEY int	- ENTERED_QUEUE_KEY int
CUSTOM_ATTRIBUTE1 varchar(255)	- CUSTOM_DIM_KEY int	- ENTERED_QUEUE_TARGET_KEY int
CUSTOM_ATTRIBUTE2 varchar(255)	- CUSTOM_ATTRIBUTE1 varchar(255)	- EXITED_QUEUE_KEY int
CUSTOM_ATTRIBUTE3 varchar(255)	- CUSTOM_ATTRIBUTE2 varchar(255)	- EXITED_QUEUE_TARGET_KEY int
CUSTOM_ATTRIBUTE4 varchar(255)	- CUSTOM_ATTRIBUTE3 varchar(255)	- CUSTOM_DIM_KEY int
CUSTOM_ATTRIBUTE5 varchar(255) CUSTOM ATTRIBUTE6 varchar(255)	- CUSTOM_ATTRIBUTE4 varchar(255) - CUSTOM ATTRIBUTE5 varchar(255)	- WORK_TIME_SEC int - HELD TIME SEC int
CUSTOM_ATTRIBUTE7 varchar(255)	- CUSTOM_ATTRIBUTE5 varchar(255)	- EVENT_INTERVAL int
CUSTOM_ATTRIBUTE8 varchar(255)	- CUSTOM_ATTRIBUTE0 varchar(255)	- CREATED_ETL_AUDIT_KEY int
CUSTOM_ATTRIBUTE9 varchar(255)	- CUSTOM_ATTRIBUTE8 varchar(255)	- UPDATED_ETL_AUDIT_KEY int
CUSTOM_ATTRIBUTE10 varchar(255)	- CUSTOM_ATTRIBUTE9 varchar(255)	
SRC_CRT_TIME_FR_FIRST_CRTD_SEC int	- CUSTOM_ATTRIBUTE10 varchar(255)	
CRT_TIME_FR_SRC_CRTD_SEC int	- WORK_TIME_SEC int	
ACTIVATE_TIME_FROM_CREATED_SEC int DISTRIBUTE_TIME_FR_CREATED_SEC int	- FINISH_INTERVAL int - CREATED ETL AUDIT KEY int	
ASSIGN TIME FROM CREATED SEC int	- CREATED_ETL_AUDIT_KEY mt - UPDATED_ETL_AUDIT_KEY int	
COMPLETE TIME FROM CREATED SEC III		
TOTAL_HELD_TIME_SEC int		
TOTAL_WORK_TIME_SEC int		
CREATED_INTERVAL int		
COMPLETED_INTERVAL int		
DUE_TS int		
COMPLETED_TS int ACTIVATION INTERVAL int		
ASSIGNED_INTERVAL int		
DISTRIBUTED INTERVAL int		
DUE_INTERVAL int		
SOURCE_CREATED_INTERVAL int		
SOURCE FIRST CREATED INTERVAL int		
CREATED_ETL_AUDIT_KEY int UPDATED_ETL_AUDIT_KEY int		

*iWD DataMart Fact Tables* 

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# The following is a view of the i\_task\_fact star schema, with the standards dimensions surrounding the Task Fact:

solution		_										
SOLUTION_KEY*	INTEGER(11				127	d i Annah Annah		1			uningen unlug	
SOLUTION_CONFIG_ID	INTEGER(11				- 00			0.			usiness_value	
SOLUTION_CONFIG_EVENT	_ID INTEGER(11	)	customer_segment		1	TASK_ID*	INTEGER(11)				JSINESS_VALUE_KEY*	INTEGER(11)
SOLUTION_RUNTIME_ID	VARCHAR(1	6)			-	SOLUTION_KEY*	INTEGER(11)		queue		JSINESS_VALUE_RANGE_5	VARCHAR(32)
TENANT_KEY	INTEGER(11	)	CUSTOMER_SEGMENT_KEY*			LAST_TASK_EVENT_ID	INTEGER(11)			BU	JSINESS_VALUE_RANGE_10	VARCHAR(32)
SOLUTION_NAME	VARCHAR(2	55)	CUSTOMER_SEGMENT	VARCHAR(64)	-100	CAPTURE_ID	VARCHAR(64)				JSINESS_VALUE_RANGE_50	VARCHAR(32)
CREATED_ETL_AUDIT_KEY	INTEGER(11	)	CREATED_ETL_AUDIT_KEY	INTEGER(11)		CURRENT_DISTRIBUTION_ID	VARCHAR(64)		QUEUE_TYPE VARCHAR(255		JSINESS_VALUE_RANGE_100	VARCHAR(32)
UPDATED_ETL_AUDIT_KEY	INTEGER(11		UPDATED_ETL_AUDIT_KEY	INTEGER(11)		TENANT_KEY	INTEGER(11)		QUEUE_NAME VARCHAR(255	BI	JSINESS_VALUE_RANGE_500	VARCHAR(32)
VALID_FROM	DATETIME	4				CONTRACT_KEY	INTEGER(11)	⇒o+-	CREATED_ETL_AUDIT_KEY INTEGER(11)	BU	JSINESS_VALUE_RANGE_1000	VARCHAR(32)
VALID_TO	DATETIME		source_tenant			PROCESS_KEY	INTEGER(11)	100000	UPDATED_ETL_AUDIT_KEY INTEGER(11)	bu	siness_valueBUSINESS_VALUE_KE	Y INTEGER(11)
VERSION	INTEGER(11	>	SOURCE_TENANT_KEY*	INTEGER(11)		CAPTURE_POINT_KEY	INTEGER(11)		queueQUEUE_KEY INTEGER(11)			
VERSION	TRIEGER(11	<i>.</i>			+ 00		INTEGER(11)				capture_point	
ontract			SOURCE_TENANT	VARCHAR(64) INTEGER(11)		CURRENT_QUEUE_KEY	INTEGER(11)		agent	٦ T	CAPTURE_POINT_KEY*	INTEGER(11
ONTRACT_KEY*	INTEGER(11)	-	CREATED_ETL_AUDIT_KEY			CURRENT_QUEUE_TARGET_KEY	INTEGER(11)	-	AGENT_KEY* INTEGER(11)	-		INTEGER(11)
ONTRACT_CONFIG_ID	INTEGER(11)		UPDATED_ETL_AUDIT_KEY	INTEGER(11)			INTEGER(11)	POT	AGENT ID VARCHAR(255	8	CAPTURE_POINT_CONFIG_ID	
CONTRACT_CONFIG_EVENT_ID			category		1	SOURCE_FIRST_CREATED_DATE_KEY			CREATED_ETL_AUDIT_KEY INTEGER(11)		CAPTURE_POINT_CONFIG_EVENT	
			CATEGORY_KEY*	INTEGER(11)	1	SOURCE_FIRST_CREATED_TIME_KEY	INTEGER(11)				CAPTURE_POINT_RUNTIME_ID	VARCHAR(16
ONTRACT_RUNTIME_ID	VARCHAR(16)		CATEGORY_NAME	VARCHAR(255)		SOURCE_CREATED_DATE_KEY	INTEGER(11)		UPDATED_ETL_AUDIT_KEY INTEGER(11)		TENANT_KEY	INTEGER(11)
ENANT_KEY	INTEGER(11)		CREATED_ETL_AUDIT_KEY	INTEGER(11)	+0	SOURCE_CREATED_TIME_KEY	INTEGER(11)	≥0 -			SOLUTION_KEY	INTEGER(11)
OLUTION_KEY	INTEGER(11)		UPDATED ETL AUDIT KEY		T~~	CREATED_DATE_KEY	INTEGER(11)				CAPTURE_POINT_NAME	VARCHAR(25
ONTRACT_NAME	VARCHAR(255			INTEGER(11)	I .	CREATED_TIME_KEY	INTEGER(11)		priority	1	CAPTURE_POINT_TYPE	VARCHAR(25
USTOM_DIM_KEY	INTEGER(11)		categoryCATEGORY_KEY	INTEGER(11)		ACTIVATION DATE VEV	INTEGER(11)		PRIORITY_KEY* INTEGER(11)	1	CREATED_ETL_AUDIT_KEY	INTEGER(11)
REATED_ETL_AUDIT_KEY	INTEGER(11)	+			-00	ACTIVATION_TIME_KEY	INTEGER(11)		PRIORITY_RANGE_5 VARCHAR(32)		UPDATED_ETL_AUDIT_KEY	INTEGER(11)
PDATED_ETL_AUDIT_KEY	INTEGER(11)		product			DUE_DATE_KEY	INTEGER(11)		PRIORITY_RANGE_10 VARCHAR(32)		VALID_FROM	DATETIME
ALID_FROM_DATE_KEY	INTEGER(11)		PRODUCT_KEY*	INTEGER(11)		DUE_TIME_KEY	INTEGER(11)		PRIORITY_RANGE_S0 VARCHAR(32)		VALID_TO	DATETIME
ALID_FROM_TIME_KEY	INTEGER(11)		PRODUCT_TYPE	VARCHAR(64)		COMPLETED_DATE_KEY	INTEGER(11)	20-			VERSION	INTEGER(11)
ALID_TO_DATE_KEY	INTEGER(11)		PRODUCT_SUBTYPE	VARCHAR(64)	+ 00	COMPLETED_DATE_KEY		r-	PRIORITY_RANGE_100 VARCHAR(32)	3	- LINGAGIN	TALEGER(11)
	INTEGER(11)			INTEGER(11)			INTEGER(11)		PRIORITY_RANGE_500 VARCHAR(32)			
ALID_TO_TIME_KEY	DATETIME		CREATED_ETL_AUDIT_KEY UPDATED_ETL_AUDIT_KEY			ASSIGNED_DATE_KEY	INTEGER(11)		PRIORITY_RANGE_1000 VARCHAR(32)	l		
			OPDATED_ETL_AODIT_KEY	INTEGER(11)		ASSIGNED_TIME_KEY	INTEGER(11)					
ALID_TO	DATETIME					DISTRIBUTED_DATE_KEY	INTEGER(11)		custom_dim		metric	8
ERSION	INTEGER(11)		customer			DISTRIBUTED_TIME_KEY	INTEGER(11)		CUSTOM_DIM_KEY* INTEGER(1	1)	METRIC_KEY*	INTEGER(11)
ontractCONTRACT_KEY	INTEGER(11)		CUSTOMER_KEY*	INTEGER(11)		MEDIA_CHANNEL_KEY	INTEGER(11)		CUSTOM DIM ATTRIBUTE1 VARCHAR(	255)	METRIC CONFIG ID	INTEGER(11)
			CUSTOMER_ID	VARCHAR(64)		CATEGORY_KEY	INTEGER(11)		CUSTOM_DIM_ATTRIBUTE2 VARCHAR(	255)	METRIC_CONFIG_EVENT_ID	INTEGER(11)
rocess		1	CREATED_ETL_AUDIT_KEY	INTEGER(11)	+ ~	BUSINESS_VALUE_KEY	INTEGER(11)		CUSTOM_DIM_ATTRIBUTE3 VARCHAR(			VARCHAR(255)
ROCESS_KEY*	INTEGER(11)	1	UPDATED_ETL_AUDIT_KEY			CURRENT_PRIORITY_KEY	INTEGER(11)	>0-				VARCHAR(255)
ROCESS_CONFIG_ID	INTEGER(11)		OPDATED_ETC_AODIT_KET	INTEGER(III)		CURRENT_STATUS_KEY	INTEGER(11)	-				
ROCESS_CONFIG_EVENT_ID	INTEGER(11)					LAST_ASSIGNED_AGENT_KEY	INTEGER(11)		CUSTOM_DIM_ATTRIBUTE5 VARCHAR(	255)		VARCHAR(255)
ROCESS_RUNTIME_ID	VARCHAR(16)		source_process	1		LAST_RESULT_CODE_KEY	INTEGER(11)		VALID_FROM DATETIME			INTEGER(11)
ENANT_KEY	INTEGER(11)	5	SOURCE_PROCESS_KEY*	INTEGER(11)		CUSTOMER KEY	INTEGER(11)		VALID_TO DATETIME			INTEGER(11)
OLUTION_KEY	INTEGER(11)	5	SOURCE_PROCESS_TYPE	VARCHAR(64)	+0F				VERSION INTEGER(1	<u> </u>		INTEGER(11)
				VARCHAR(64)	. ~	CUSTOMER_SEGMENT_KEY	INTEGER(11)		CREATED_ETL_AUDIT_KEY INTEGER(1	1)	PROCESS_KEY	INTEGER(11)
ONTRACT_KEY	INTEGER(11)		CREATED_ETL_AUDIT_KEY	INTEGER(11)		PRODUCT_KEY	INTEGER(11)		UPDATED_ETL_AUDIT_KEY INTEGER(1	1)	DISTRIBUTION_POINT_KEY	INTEGER(11)
ROCESS_NAME	VARCHAR(255)			INTEGER(11)		SOURCE_TENANT_KEY	INTEGER(11)				CREATED_ETL_AUDIT_KEY	INTEGER(11)
USTOM_DIM_KEY	INTEGER(11)		JEATED_ETE_AGETT_RET	Intreden(11)		SOURCE_PROCESS_KEY	INTEGER(11)	-90				INTEGER(11)
REATED_ETL_AUDIT_KEY	INTEGER(11)	H			0€	CUSTOM_DIM_KEY	INTEGER(11)		etl_audit		VALID_FROM	DATETIME
PDATED_ETL_AUDIT_KEY	INTEGER(11)					CUSTOM_ATTRIBUTE1	VARCHAR(255)		ETL_AUDIT_KEY* INTEGE	2(11)	VALID_TO	DATETIME
ALID_FROM_DATE_KEY	INTEGER(11)		media_channel			CUSTOM_ATTRIBUTE2	VARCHAR(255)		ETL_AUDIT_TIME DATETI	ME		INTEGER(11)
ALID_FROM_TIME_KEY	INTEGER(11)			ITEGER(11)		CUSTOM_ATTRIBUTE3	VARCHAR(255)		BATCH_ID INTEGE	2(11)		and a start and a start
ALID_TO_DATE_KEY	INTEGER(11)		CHANNEL_NAME VA	ARCHAR(255)	- as		VARCHAR(255)	≥o	DATA_SOURCE_TYPE VARCHA	R(16)		
ALID_TO_TIME_KEY	INTEGER(11)	0	CREATED_ETL_AUDIT_KEY IN	ITEGER(11)		CUSTOM_ATTRIBUTES	VARCHAR(255)		DATA_SOURCE_NAME VARCHA			
ALID_FROM	DATETIME	1		ITEGER(11)		CUSTOM_ATTRIBUTE6	VARCHAR(255)		PROCESS_NAME VARCHA	SS		
ALID_TO	DATETIME			1220 8					FIRST_EXTRACTED_EVENT_ID INTEGE			
ERSION	INTEGER(11)	-				CUSTOM_ATTRIBUTE7	VARCHAR(255)			1 5		
			queue_target			CUSTOM_ATTRIBUTE8	VARCHAR(255)				tenant	
rocessPROCESS_KEY	INTEGER(11)			ITEGER(11)		CUSTOM_ATTRIBUTE9	VARCHAR(255)		BATCH_LAST_EVENT_ID INTEGE			INTEGER(11)
		0		ARCHAR(255)		CUSTOM_ATTRIBUTE10	VARCHAR(255)		LAST_INTERVAL_DATE_KEY INTEGE		TENANT_CONFIG_ID	INTEGER(11)
		0	QUEUE_TARGET_NAME V/	ARCHAR(255)	- 00	SRC_CRT_TIME_FR_FIRST_CRTD_SEC	INTEGER(11)		LAST_INTERVAL_TIME_KEY INTEGE	2(11)	TENANT_CONFIG_EVENT_ID	INTEGER(11)
				ITEGER(11)		CRT_TIME_FR_SRC_CRTD_SEC	INTEGER(11)	50-				VARCHAR(255)
ule			JPDATED_ETL_AUDIT_KEY IN	TEGER(11)		ACTIVATE_TIME_FROM_CREATED_SEC	INTEGER(11)	-			TENANT_NAME	VARCHAR(255)
	NTEGER(11)					DISTRIBUTE_TIME_FR_CREATED_SEC	INTEGER(11)		etl_custom_map			INTEGER(11)
	NTEGER(11)				- œ	ASSIGN_TIME_FROM_CREATED_SEC	INTEGER(11)		ETL_CUSTOM_MAP_KEY* INTEGER(			INTEGER(11)
ULE_CONFIG_EVENT_ID I	NTEGER(11)					COMPLETE_TIME_FROM_CREATED_SEC	INTEGER(11)		SOLUTION_KEY INTEGER(			INTEGER(11)
ULE_NAME V	ARCHAR(255)					TOTAL_HELD_TIME_SEC	INTEGER(11)		PROCESS_KEY INTEGER(	11)		
	NTEGER(11)	dias. 1	ution point		1		INTEGER(11)		CONTRACT_KEY INTEGER(	11)		DATETIME
	NTEGER(11)		ution_point		-	TOTAL_WORK_TIME_SEC		-	TYPE VARCHAR	(30)		DATETIME
	NTEGER(11)		BUTION_POINT_KEY*	INTEGER(11)	1	CREATED_INTERVAL	INTEGER(11)	-0-	KEY_NAME VARCHAR	(255)	VERSION	INTEGER(11)
	NTEGER(11)		BUTION_POINT_CONFIG_ID	INTEGER(11)	1	COMPLETED_INTERVAL	INTEGER(11)		IS_DIMENSION INTEGER(			
	NTEGER(11)			INTEGER(11)	1	DUE_TS	INTEGER(11)		CUSTOM_ATTRIBUTE_INDEX INTEGER(	0.00		
		DISTRI	BUTION_POINT_RUNTIME_ID	VARCHAR(16)	1	COMPLETED_TS	INTEGER(11)		neer interio	/		
	NTEGER(11)	TENAN	T_KEY	INTEGER(11)	1	ACTIVATION_INTERVAL	INTEGER(11)					
	NTEGER(11)	SOLUT	ION_KEY	INTEGER(11)	1	ASSIGNED_INTERVAL	INTEGER(11)					
	NTEGER(11)		BUTION_POINT_NAME	VARCHAR(255)	+0	DISTRIBUTED_INTERVAL	INTEGER(11)		status			
ALID_TO_DATE_KEY I			BUTION_POINT_TYPE	VARCHAR(255)		DUE_INTERVAL	INTEGER(11)	30-	STATUS_KEY* INTEGER(11)			
ALID_TO_TIME_KEY I	NTEGER(11)		ED_ETL_AUDIT_KEY	INTEGER(11)	I	SOURCE_CREATED_INTERVAL	INTEGER(11)	1	STATUS_NAME VARCHAR(16)			
	ATETIME						INTEGER(11) INTEGER(11)		IS_FINAL INTEGER(11)			
	ATETIME		ED_ETL_AUDIT_KEY	INTEGER(11)	1	SOURCE_FIRST_CREATED_INTERVAL			IS_HELD INTEGER(11)			
	NTEGER(11)	VALID_		DATETIME	1	CREATED_ETL_AUDIT_KEY	INTEGER(11)					
		VALID_		DATETIME	1	UPDATED_ETL_AUDIT_KEY	INTEGER(11)	1				
		VERSIO		INTEGER(11)		more						

#### The Task Fact table contains the following fields:

Attribute	MySQL Type	Oracle Type	РК	Description
TASK_ID	INTEGER	INTEGER	Х	Task ID in iWD, generated automatically when new task is created, unique within a single iWD database.
SOLUTION_KEY	INTEGER	INTEGER	Х	Key to the solution dimension describing the task's Solution Instance as configured in iWD Manager (for example, Production vs. Test). It is assigned as soon as task is created in IWD runtime. A tenant can have one or many solution instances.

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Attribute	MySQL Type	Oracle Type	PK	Description
LAST_TASK_EVENT_ID	INTEGER	INTEGER		Unique identifier for the last event associated with the task.
CAPTURE_ID	VARCHAR(64)	VARCHAR2(64)		The ID of the task capture, as stored or referenced in the originating system - for example, work-item ID.
CURRENT_DISTRIBUTION_ID	VARCHAR(64)	VARCHAR2(64)		Distribution ID for the task as assigned by the routing system, like Genesys CIM. In the case of CIM, this would be the Genesys Interaction ID for the task, returned to iWD via the iWD Distribution Point/Open Media interface.
TENANT_KEY	INTEGER	INTEGER		Key to the tenant dimension describing the task's Tenant, as configured in iWD Manager. This is assigned as soon as task is created in iWD runtime.
CONTRACT_KEY	INTEGER	INTEGER		Key to contract dimension. Describes the task's parent iWD contract.
PROCESS_KEY	INTEGER	INTEGER		Key to process dimension. Describes the task's parent iWD business process.
CAPTURE_POINT_KEY	INTEGER	INTEGER		Key to capture point dimension. Describes the capture point that captured the task.
CURRENT_DISTRIBUTION_POINT_KEY	INTEGER	INTEGER		Key to distribution point dimension. Describes the distribution point that distributed the task.
CURRENT_QUEUE_KEY	INTEGER	INTEGER		<ul> <li>Key to the queue dimension describing the queue the task is in and the Queue Type. For Genesys, distribution the following types are possible:</li> <li>InteractionQueue.</li> <li>AgentWorkbin.</li> <li>AgentGroupWorkbin.</li> <li>PlaceWorkbin.</li> <li>PlaceGroupWorkbin.</li> <li>For more information on Genesys queue types listed above, please consult your Genesys user manuals and reference guides.</li> </ul>
CURRENT_QUEUE_TARGET_KEY	INTEGER	INTEGER		Key to the target queue dimension. Queue Target is the ID of agent, agent group, place or place group to which the task is assigned. For Genesys this is only populated when queueType is AgentWorkbin, AgentGroupWorkbin, PlaceWorkbin or PlaceGroupWorkbin.
SOURCE_FIRST_CREATED_DATE_KEY	INTEGER	INTEGER		Key to date/time. Reserved for the DTM from the first system that captured the task. Two source DTM are provided with this one being reserved for cases where two systems were involved in the task origination (for example, fax server and workflow).
SOURCE_FIRST_CREATED_TIME_KEY	INTEGER	INTEGER		Time key for the first source system.
SOURCE_CREATED_DATE_KEY	INTEGER	INTEGER		Date key for the second source system. This is the system that submitted the task to iWD.
SOURCE_CREATED_TIME_KEY	INTEGER	INTEGER		Time key for the second source system submitting the task to iWD.
CREATED_DATE_KEY	INTEGER	INTEGER		Key to the iWD task created date. Additional created date/time stamps are provided for in extended attributes to report not only on iWD capture date/time, but also on the originating system (e.g.: workflow capture date/time). See Source Create and Source First Created.
CREATED_TIME_KEY	INTEGER	INTEGER		Key to the iWD task created time.
ACTIVATION_DATE_KEY	INTEGER	INTEGER		Key to the event_date dimension describing the iWD task activation date. Activation Date is the date when task becomes active, before that it will stay queued and will not be reprioritized and distributed.

Attribute	MySQL Type	Oracle Type	PK Description
ACTIVATION_TIME_KEY	INTEGER	INTEGER	Key to the event_time dimension describing the Activation Time for the task. Activation Time is the time when task becomes active, before that it will stay queued and will not be reprioritized and distributed.
DUE_DATE_KEY	INTEGER	INTEGER	Key to the event_date dimension describing the task due date as set by iWD rules or by the source system.
DUE_TIME_KEY	INTEGER	INTEGER	Key to the event_time dimension describing task due time.
COMPLETED_DATE_KEY	INTEGER	INTEGER	Key to the event_date dimension describing the iWD completion date.
COMPLETED_TIME_KEY	INTEGER	INTEGER	Key to the event_time dimension describing task completion time.
ASSIGNED_DATE_KEY	INTEGER	INTEGER	Key to the event_date dimension describing the date when task was assigned to an agent.
ASSIGNED _TIME_KEY	INTEGER	INTEGER	Key to the event_time dimension describing the time when task was assigned to an agent.
DISTRIBUTED_DATE_KEY	INTEGER	INTEGER	Key to the event_date dimension describing the date when task was distributed.
DISTRIBUTED _TIME_KEY	INTEGER	INTEGER	Key to the event_time dimension describing the time when task was distributed.
MEDIA_CHANNEL_KEY	INTEGER	INTEGER	Key to the media_channel dimension describing channel associated with the task (for example, fax). This can be set in iWD Rules, or set by the system submitting the task.
CATEGORY_KEY	INTEGER	INTEGER	Key to category dimension. Category can be used to further describe the task, like a follow-up.
BUSINESS_VALUE_KEY	INTEGER	INTEGER	Key to the business_value dimension. Business value is assigned using iWD rules during classification phase of the task.
CURRENT_PRIORITY_KEY	INTEGER	INTEGER	Key to the priority dimension. Like business value, it is assigned during classification. Priority can change overtime. For example, as the task gets closer to its due-date, the prioritization rules may be configured to proactively reprioritize the task. This value is current priority, with history available in the task_event_fact table.
CURRENT_STATUS_KEY	INTEGER	INTEGER	<ul> <li>Key to the current task status. The following are the iWD status and a brief description: <ul> <li>New: Newly created task awaiting processing.</li> <li>NewHeld: Task created but will not be processed until it is resumed.</li> <li>Captured: Task has been processed by iWD, but not yet prioritized.</li> <li>Queued: Task is processed and prioritized at least once.</li> <li>Held: Task in a held state (user action, or system), and will not be reprioritized or distributed until it is resumed.</li> <li>Distributed: Task is submitted to distribution system, like Genesys Open Media queue.</li> <li>Assigned: Task is canceled.</li> <li>ErrorHeld: Error has occurred during task processing, prioritization or distribution. Error details are stored in "error" custom extended task attribute. When resumed, iWD will attempt to process task again.</li> <li>Rejected: Task has been rejected during processing. This can occur when the task was assigned to an expired contract or process.</li> </ul> </li> </ul>

Attribute	MySQL Type	Oracle Type	PK	Description
LAST_ASSIGNED_AGENT_KEY	INTEGER	INTEGER		Key to the agent dimension for the last assigned to which the task was assigned.
LAST_RESULT_CODE_KEY	INTEGER	INTEGER		Key to the result code dimension. Result Code is often the wrap code from softphone, routing strategy or from source system. It may be utilized in reporting to gain further understanding of the outcome of the task.
CUSTOMER_KEY	INTEGER	INTEGER		Key to the customer dimension. It is oftentimes used as the customer ID from source system. This ID can be utilized to retrieve further customer details from CRM data warehouse or other customer data repositories.
CUSTOMER_SEGMENT_KEY	INTEGER	INTEGER		Key to the customer segment dimension describing the customer to whom the task is associated and is received from source system as an extended iWD task attribute - for example, gold, silver or bronze.
PRODUCT_KEY	INTEGER	INTEGER		Key to the Product Dimension describing the product to which the task is related. For example, it can be a product name, or product type like a loan or Internet DSL. As Product can be further defined using product subtype such as residential loan or home DSL.
SOURCE_TENANT_KEY	INTEGER	INTEGER		Key to the source tenant dimension with the ID of the tenant submitting the task. It can be important in a multi-tenant, or service bureau environment.
SOURCE_PROCESS_KEY	INTEGER	INTEGER		Key to the source_process dimension. Source process includes type and subtype that described the source process associated with the task (for example, Order and DSL Order)
CUSTOM_DIM_KEY	INTEGER	INTEGER		Key to custom_dim dimension containing five additional attributes (beyond those listed below) that can be utilized to describe a task.
CUSTOM_ATTRIBUTE1	VARCHAR(255)	VARCHAR2(255)		Custom attributes describe a task.
CUSTOM_ATTRIBUTE2	VARCHAR(255)	VARCHAR2(255)		A total of 10 customer attributes can be mapped to the task, with 5 additional in the custom_dim dimension.
CUSTOM_ATTRIBUTE3	VARCHAR(255)	VARCHAR2(255)		If more than 10 task attributes exist, the first 10 are
CUSTOM_ATTRIBUTE4	VARCHAR(255)	VARCHAR2(255)		mapped, with the remaining left unmapped.
CUSTOM_ATTRIBUTE5	VARCHAR(255)	VARCHAR2(255)		
CUSTOM_ATTRIBUTE6	VARCHAR(255)	VARCHAR2(255)		
CUSTOM_ATTRIBUTE7	VARCHAR(255)	VARCHAR2(255)		
CUSTOM_ATTRIBUTE8	VARCHAR(255)	VARCHAR2(255)		
CUSTOM_ATTRIBUTE9	VARCHAR(255)	VARCHAR2(255)		
CUSTOM_ATTRIBUTE10	VARCHAR(255)	VARCHAR2(255)		
SRC_CRT_TIME_FR_FIRST_CRTD_SEC	INTEGER	INTEGER		Calculated time value in seconds that counts the time elapsed from task capture from first system to source system (for example, fax server to workflow system)
CRT_TIME_FR_SRC_CRTD_SEC	INTEGER	INTEGER		Calculated time value in seconds from time of task creation in the source system (for example, workflow) to the time it was created in iWD.

Attribute	MySQL Type	Oracle Type	РК	Description
ACTIVATE_TIME_FROM_CREATED_SEC	INTEGER	INTEGER		Calculated value in seconds that counts the elapsed time from the time the task was submitted to iWD until activated.
DISTRIBUTE_TIME_FR_CREATED_SEC	INTEGER	INTEGER		Calculated value, in seconds, that counts the elapsed time the task was in iWD (created through to queued) prior to being distributed.
ASSIGN_TIME_FROM_CREATED_SEC	INTEGER	INTEGER		Calculated value, in seconds, that counts the elapsed time from when the task was created in iWD until it was assigned to an agent.
COMPLETE_TIME_FROM_CREATED_SEC	INTEGER	INTEGER		Calculated value, in seconds, counting the elapsed time from when the task was created in iWD until it was completed by the agent.
TOTAL_HELD_TIME_SEC	INTEGER	INTEGER		A calculated value, in seconds, that counts the total time a task was held in iWD. This is a iWD "hold" action via web service or through iWD manager user interface and not a hold event from a softphone or desktop application.
TOTAL_WORK_TIME_SEC	INTEGER	INTEGER		A calculated value, in seconds that counts the time from assigned to an agent until the task was completed by the agent. A task may have multiple work times as noted in task_work_fact. This is the total sum.
CREATED_INTERVAL	INTEGER	INTEGER		Time interval CREATED_DATE_KEY/ CREATED_TIME_KEY. Used for ETL scripts.
COMPLETED_INTERVAL	INTEGER	INTEGER		Time interval COMPLETED_DATE_KEY/ COMPLETED_TIME_KEY. Used for ETL scripts.
DUE_TS	INTEGER	INTEGER		A timestamp for iWD task due date/time. Used for ETL scripts.
COMPLETED_TS	INTEGER	INTEGER		A timestamp for iWD completed date/time. Used for ETL scripts.
ACTIVATION_INTERVAL	INTEGER	INTEGER		Time interval ACTIVATION_DATE_KEY/ ACTIVATION_TIME_KEY. Used for ETL scripts.
ASSIGNED_INTERVAL	INTEGER	INTEGER		Time interval ASSIGN_DATE_KEY/ ASSIGN_TIME_KEY. Used for ETL scripts.
DISTRIBUTED_INTERVAL	INTEGER	INTEGER		Time interval DISTRIBUTED_DATE_KEY/ DISTRIBUTED_TIME_KEY. Used for ETL scripts.
DUE_INTERVAL	INTEGER	INTEGER		Time interval DUE_DATE_KEY/ DUE_TIME_KEY. Used for ETL scripts.
SOURCE_CREATED_INTERVAL	INTEGER	INTEGER		Time interval SOURCE_CREATED_DATE_KEY/ CREATED_TIME_KEY. Used for ETL scripts.
SOURCE_FIRST_CREATED_INTERVAL	INTEGER	INTEGER		Time interval SOURCE_FIRST_CREATED_DATE_KEY/ SOURCE_FIRST_CREATED_TIME_KEY. Used for ETL scripts.
CREATED_ETL_AUDIT_KEY	INTEGER	INTEGER		Key to the etl_audit dimension storing attributes related to the ETL job that created the task.
UPDATED_ETL_AUDIT_KEY	INTEGER	INTEGER		Key to the etl_audit that updated the task fact.
REQUESTED_SKILL_KEY	INTEGER	INTEGER		Agent SKILL that is requested by iWD rule. Key to SKILL dimension.
REQUESTED_AGENT_KEY	INTEGER	INTEGER		Agent that is requested by iWD rule. Key to AGENT dimension.

### Task Work Fact (task\_work\_fact)

Task Work Fact describes the task from the perspective of enterprise resources. Each time that a task is assigned to an agent, a new Task Work Fact is recorded. For those installations in which Genesys Info Mart is used, the iWD Data Mart task\_work\_fact is similar to Interaction Segment Fact in Genesys Info Mart.

In iWD Data Mart database, Task Work Fact can be accessed via the following:

- i\_task\_work\_fact Intraday data table
- h\_task\_work\_fact Historical data table
- task\_work\_fact Blended (historical and intraday) data view

The following is a view of the task\_work\_fact star schema, with the standard dimensions surrounding the fact:

										customer		ĩ			
										CUSTOMER_KEY*	INTEGER(11)	1			
tenant									-	CUSTOMER_ID	VARCHAR(64)				
TENANT_KEY*	INTEGER(1									CREATED_ETL_AUDIT_KE					
TENANT_CONFIG_ID	INTEGER(1					6	8			UPDATED_ETL_AUDIT_KE	Y INTEGER(11)				
TENANT_CONFIG_EVENT_		9999	media_channel		1	i_task_work_fac	t		1	customer_segment					
TENANT_RUNTIME_ID TENANT_NAME	VARCHAR(2 VARCHAR(2		MEDIA_CHANNEL_KEY*	INTEGER(11)		ASSIGN_TASK_EV		INTEGER(11)	~	CUSTOMER_SEGMENT_KE	Y* INTEGER(11)	)	process		
CUSTOM_DIM_KEY	INTEGER(1		CHANNEL_NAME	VARCHAR(255)		SOLUTION_KEY*		INTEGER(11)		CUSTOMER_SEGMENT	VARCHAR(64	)	PROCESS_KEY*	INTEGER(11)	
CREATED_ETL_AUDIT_KEY			CREATED_ETL_AUDIT_KEY	INTEGER(11)		TASK_ID		INTEGER(11)		CREATED_ETL_AUDIT_KE	V INTEGER(11)	)	PROCESS_CONFIG_ID	INTEGER(11)	
UPDATED_ETL_AUDIT_KEV			UPDATED_ETL_AUDIT_KEY	INTEGER(11)		FINISH_TASK_EVE		INTEGER(11)		UPDATED_ETL_AUDIT_KE	Y INTEGER(11)	)		INTEGER(11)	
VALID_FROM	DATETIME	8			_	IS_ABANDON		INTEGER(11)		event time	Ĩ	_	PROCESS_RUNTIME_ID	VARCHAR(16)	
VALID_TO	DATETIME		result_code		1	CAPTURE_ID		VARCHAR(64)		EVENT_TIME_KEY*	INTEGER(11)		TENANT_KEY	INTEGER(11)	
VERSION	INTEGER(1	1)	RESULT_CODE_KEY*	INTEGER(11)	1	DISTRIBUTION_ID		VARCHAR(64)	⇒o+	EVENT_TIME_24	VARCHAR(6)		SOLUTION_KEY	INTEGER(11)	
		_	RESULT_CODE	VARCHAR(64)		TENANT_KEY		INTEGER(11) INTEGER(11)		EVENT_TIME_12	VARCHAR(8)		CONTRACT_KEY PROCESS_NAME	INTEGER(11) VARCHAR(255)	
solution SOLUTION_KEY*	INTEGER(11		CREATED_ETL_AUDIT_KEY	INTEGER(11)		CONTRACT_KEY		INTEGER(11) INTEGER(11)		TIME_INTERVAL_15MIN	INTEGER(11)		CUSTOM_DIM_KEY	INTEGER(11)	
SOLUTION_CONFIG_ID	INTEGER(11 INTEGER(11	·	UPDATED_ETL_AUDIT_KEY	INTEGER(11)		_ CAPTURE_POINT_I		INTEGER(11)			INTEGER(11)		CREATED_ETL_AUDIT_KEY	INTEGER(11)	
SOLUTION_CONFIG_EVENT_I					<u> </u>	DISTRIBUTION_PO		INTEGER(11)		TIME_INTERVAL_60MIN	INTEGER(11)		UPDATED_ETL_AUDIT_KEY	INTEGER(11)	
SOLUTION_RUNTIME_ID	VARCHAR(1		queue			QUEUE_KEY		INTEGER(11)	≫~ ·				VALID_FROM_DATE_KEY	INTEGER(11)	
TENANT_KEY	INTEGER(11		QUEUE_KEY*	INTEGER(11)		ASSIGN_DATE_KE		INTEGER(11)		event_date			VALID_FROM_TIME_KEY	INTEGER(11)	
SOLUTION_NAME	VARCHAR(2		QUEUE_TYPE	VARCHAR(255)	+	ASSIGN_TIME_KEY	1	INTEGER(11)		EVENT_DATE_KEY*	INTEGER(11)		VALID_TO_DATE_KEY	INTEGER(11)	
CREATED_ETL_AUDIT_KEY	INTEGER(11		QUEUE_NAME	VARCHAR(255)		FINISH_DATE_KEY		INTEGER(11)		EVENT_DATE	DATETIME		VALID_TO_TIME_KEY	INTEGER(11)	
UPDATED_ETL_AUDIT_KEY	INTEGER(11	)	CREATED_ETL_AUDIT_KEY	INTEGER(11)		FINISH_TIME_KEY		INTEGER(11)		DAY_NAME	VARCHAR(32)		VALID_FROM	DATETIME	
VALID_FROM	DATETIME	· · ·	UPDATED_ETL_AUDIT_KEY	INTEGER(11)	_	MEDIA_CHANNEL_		INTEGER(11)		DAY_NUM_IN_WEEK DAY_NUM_IN_MONTH	INTEGER(11) INTEGER(11)		VALID_TO	DATETIME	
VALID_TO	DATETIME		agent			CATEGORY_KEY		INTEGER(11)	DO-	DAY_NUM_IN_YEAR	INTEGER(11)		VERSION	INTEGER(11)	
VERSION	INTEGER(11	)	AGENT_KEY*	INTEGER(11)	+	BUSINESS_VALUE		INTEGER(11)		WEEK_NUM_IN_YEAR	INTEGER(11)				
			AGENT_ID	VARCHAR(255)	8	PRIORITY_KEY		INTEGER(11)		WEEK_START_DATE	DATETIME				
category			CREATED_ETL_AUDIT_KEY	INTEGER(11)		ASSIGNED_AGENT		INTEGER(11) INTEGER(11)		WEEK_END_DATE	DATETIME				
CATEGORY_KEY*	INTEGER(11		UPDATED_ETL_AUDIT_KEY	INTEGER(11)		CUSTOMER_KEY		INTEGER(11)		MONTH_NAME	VARCHAR(32)		business_value		
CATEGORY_NAME	VARCHAR(25	5)			1	CUSTOMER_SEGM		INTEGER(11)		MONTH_NUM_IN_YEAR	INTEGER(11)		BUSINESS_VALUE_KEY*	INTEGER(11	1)
CREATED_ETL_AUDIT_KEY	INTEGER(11		product			PRODUCT_KEY		INTEGER(11)		QUARTER_NUM_IN_YEAR	INTEGER(11)		BUSINESS_VALUE_RANGE_5	VARCHAR(3	
UPDATED_ETL_AUDIT_KEV	Y INTEGER(11)	)	PRODUCT_KEY*	INTEGER(11)	+ ~	SOURCE_TENANT_	KEY	INTEGER(11)		YEAR_NUM	INTEGER(11)		BUSINESS_VALUE_RANGE_1		
			PRODUCT_TYPE PRODUCT_SUBTYPE	VARCHAR(64) VARCHAR(64)		SOURCE_PROCESS	S_KEY	INTEGER(11)	≥0 -				+ BUSINESS_VALUE_RANGE_5		
custom_dim			CREATED_ETL_AUDIT_KEY	INTEGER(11)		CUSTOM_DIM_KEY	(	INTEGER(11)		contract			BUSINESS_VALUE_RANGE_1		
CUSTOM_DIM_KEY*	INTEGER(11)		UPDATED_ETL_AUDIT_KEY			CUSTOM_ATTRIBU		VARCHAR(255)	8	CONTRACT_KEY*	INTEGER(	11)	BUSINESS_VALUE_RANGE_5 BUSINESS_VALUE_RANGE_1		
CUSTOM_DIM_ATTRIBUTE1	VARCHAR(255)					CUSTOM_ATTRIBU		VARCHAR(255)		CONTRACT_CONFIG_ID	INTEGER(	200	BOSINESS_VALUE_RANGE_I	JOU VARCHAR(S	<u> </u>
CUSTOM_DIM_ATTRIBUTE2	VARCHAR(255)		source_tenant		1	CUSTOM_ATTRIBU		VARCHAR(255)		CONTRACT_CONFIG_EVEN					
CUSTOM_DIM_ATTRIBUTE3	VARCHAR(255)		SOURCE_TENANT_KEY*	INTEGER(11)		CUSTOM_ATTRIBU		VARCHAR(255)		CONTRACT_RUNTIME_ID	VARCHAR				
CUSTOM_DIM_ATTRIBUTE4	VARCHAR(255)		SOURCE_TENANT	VARCHAR(64)	<u>+-</u> ~ ∝	CUSTOM_ATTRIBU		VARCHAR(255) VARCHAR(255)		TENANT_KEY	INTEGER(				
	VARCHAR(255)		CREATED_ETL_AUDIT_KEY	INTEGER(11)		CUSTOM_ATTRIBU		VARCHAR(255) VARCHAR(255)		SOLUTION_KEY	INTEGER(				
VALID_FROM VALID_TO	DATETIME		UPDATED_ETL_AUDIT_KEY	INTEGER(11)		CUSTOM_ATTRIBU		VARCHAR(255)		CONTRACT_NAME CUSTOM_DIM_KEY	VARCHAR( INTEGER(				
VERSION	INTEGER(11)				1	CUSTOM_ATTRIBU		VARCHAR(255)		CREATED_ETL_AUDIT_KEY					
CREATED_ETL_AUDIT_KEY	INTEGER(11)	L L	source_process			CUSTOM_ATTRIBU		VARCHAR(255)	20. 22	UPDATED_ETL_AUDIT_KE					
UPDATED_ETL_AUDIT_KEY	INTEGER(11)	1 1	SOURCE_PROCESS_KEY*	INTEGER(11)		WORK_TIME_SEC		INTEGER(11)	⇒o+	VALID_FROM_DATE_KEY	INTEGER(				
		-	SOURCE_PROCESS_TYPE	VARCHAR(64)		FINISH_INTERVAL		INTEGER(11)		VALID_FROM_TIME_KEY	INTEGER(				
				VARCHAR(64)		CREATED_ETL_AU	DIT_KEY	INTEGER(11)		VALID_TO_DATE_KEY	INTEGER(				
d another and a			CREATED_ETL_AUDIT_KEY	INTEGER(11)		UPDATED_ETL_AU	DIT_KEY	INTEGER(11)		VALID_TO_TIME_KEY	INTEGER(	11)			
t <mark>l_custom_map</mark> TL_CUSTOM_MAP_KEY* I	INTEGER(11)		UPDATED_ETL_AUDIT_KEY	INTEGER(11)		more				VALID_FROM	DATETIME				
	INTEGER(11)					* * *	¥			VALID_TO	DATETIME				
	INTEGER(11)	1-0-					1			VERSION	INTEGER(	11)			
	INTEGER(11)				_		1								
	VARCHAR(30)	- H	etl_audit		_		1			on_point					
Y_NAME	ARCHAR(255)		ETL_AUDIT_KEY*	INTEGER(11)	+		L			ION_POINT_KEY*	INTEGER(11)				
_DIMENSION I	INTEGER(11)		ETL_AUDIT_TIME BATCH_ID	DATETIME INTEGER(11)		1940				ION_POINT_CONFIG_ID	INTEGER(11) INTEGER(11)				
USTOM_ATTRIBUTE_INDEX I	INTEGER(11)		DATA_SOURCE_TYPE	VARCHAR(16)	prio	rity					VARCHAR(16)				
			DATA_SOURCE_NAME	VARCHAR(255)	PRIC	DRITY_KEY*	INTEGER(	11) TENA			INTEGER(11)				
			PROCESS_NAME	VARCHAR(255)		DRITY_RANGE_5	VARCHAR(	(32) SOLU			INTEGER(11)				
			FIRST_EXTRACTED_EVENT_ID	INTEGER(11)	PRIC	DRITY_RANGE_10	VARCHAR(	(32) DISTR		- ION_POINT_NAME	VARCHAR(255)				
			LAST_EXTRACTED_EVENT_ID	INTEGER(11)		DRITY_RANGE_50	VARCHAR(	(32) DISTR		ION_POINT_TYPE	VARCHAR(255)				
			BATCH_LAST_EVENT_ID	INTEGER(11)		DRITY_RANGE_100	VARCHAR(	(32) CREA		ETL_AUDIT_KEY	INTEGER(11)				
			LAST_INTERVAL_DATE_KEY	INTEGER(11)		DRITY_RANGE_500	VARCHAR(	UPDA	TED_	ETL_AUDIT_KEY	INTEGER(11)				
			LAST_INTERVAL_TIME_KEY	INTEGER(11)		DRITY_RANGE_1000	VARCHAR(	VALIL		М	DATETIME				
		-			a			VALIE			DATETIME				
								VERS:	ION		INTEGER(11)				

### The Task Work Fact table contains the following fields:

Attribute	MySQL type	Oracle type	РК	Description
ASSIGN_TASK_EVENT_ID	INTEGER	INTEGER	Х	Unique ID returned by the distribution system for the event. In the case of Genesys, this would be the interaction event ID.
SOLUTION_KEY	INTEGER	INTEGER	Х	Key to the solution dimension.
TASK_ID	INTEGER	INTEGER		Unique ID for the task.
FINISH_TASK_EVENT_ID	INTEGER	INTEGER		A task can have more than one assigned event ID. This is the ID of the last assigned event.

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Attribute	MySQL type	Oracle type	РК	Description
IS_ABANDON	INTEGER	INTEGER		Indicates whether a task has been abandoned (instead of finished normally): <ul> <li>0 indicates the task was not abandoned (status finished) and</li> <li>1 indicates abandon.</li> </ul>
CAPTURE_ID	VARCHAR(64)	VARCHAR2(64)		Capture ID for the task, assigned by the source system.
DISTRIBUTION_ID	VARCHAR(64)	VARCHAR2(64)		Distribution ID for the task.
TENANT_KEY	INTEGER	INTEGER		Key to the tenant dimension describing the task's parent iWD tenant.
CONTRACT_KEY	INTEGER	INTEGER		Key to the contract dimension describing the task's parent iWD contract.
PROCESS_KEY	INTEGER	INTEGER		Key to the process dimension describing the task's parent iWD process.
CAPTURE_POINT_KEY	INTEGER	INTEGER		Key to the capture point dimension describing the task's parent iWD capture point (for example, capture point name = XML File capture).
DISTRIBUTION_POINT_KEY	INTEGER	INTEGER		Key to the distribution point dimension describing the task's parent iWD distribution point (for example, name = Toronto Call Center).
QUEUE_KEY	INTEGER	INTEGER		Key to the queue dimension.
ASSIGN_DATE_KEY	INTEGER	INTEGER		Key to the event date for when the task was assigned to agent.
ASSIGN_TIME_KEY	INTEGER	INTEGER		Key to the event time for when the task was assigned to agent.
FINISH_DATE_KEY	INTEGER	INTEGER		Key to the event date for when the task was finished by the agent.
FINISH_TIME_KEY	INTEGER	INTEGER		Key to the event time for when the task was finished by the agent.
MEDIA_CHANNEL_KEY	INTEGER	INTEGER		Key to the media channel dimension describing the media channel for the task (for example, Fax).
CATEGORY_KEY	INTEGER	INTEGER		Key to the business value dimension describing the category associated with the Task.
BUSINESS_VALUE_KEY	INTEGER	INTEGER		Key to the business value dimension.
PRIORITY_KEY	INTEGER	INTEGER		Key to the priority dimension.
ASSIGNED_AGENT_KEY	INTEGER	INTEGER		Key to the agent dimension storing the agent ID for the agent who received the task. This key can be used to retrieve further agent information from Genesys Info Mart, such as Agent Skill, or other employee data from EDW.
RESULT_CODE_KEY	INTEGER	INTEGER		Key to the result code provided by the agent via soft phone.
CUSTOMER_KEY	INTEGER	INTEGER		Key to the customer dimension, storing the unique value to identify the customer. Can be used to retrieve further details about the customer from other enterprise data repositories.
CUSTOMER_SEGMENT_KEY	INTEGER	INTEGER		Key to the customer segment dimension describing the segment for the customer (for example, gold, silver, or bronze).
PRODUCT_KEY	INTEGER	INTEGER		Key to the product dimension, describing the product type (Internet) and sub-type (DSL) associated with the task.
SOURCE_TENANT_KEY	INTEGER	INTEGER		Key to the source_tenant dimension describing the source tenant where the source system is part of a multi-tenant environment.
SOURCE_PROCESS_KEY	INTEGER	INTEGER		Key to the source_process dimension describing the source process (for example, Order)
CUSTOM_DIM_KEY	INTEGER	INTEGER		Key to the custom_dim dimension. This dimension is reserved for future use.
CUSTOM_ATTRIBUTE1	VARCHAR(255)	VARCHAR2(255)		Custom attributes describe a task.
CUSTOM_ATTRIBUTE2	VARCHAR(255)	VARCHAR2(255)		A total of 10 customer attributes can be mapped to the task, with 5 additional in the custom_dim dimension.

Attribute	MySQL type	Oracle type	PK	Description
CUSTOM_ATTRIBUTE3	VARCHAR(255)	VARCHAR2(255)		If more than 10 task attributes exist, the first 10 are mapped
CUSTOM_ATTRIBUTE4	VARCHAR(255)	VARCHAR2(255)	_	with the remaining left unmapped.
CUSTOM_ATTRIBUTE5	VARCHAR(255)	VARCHAR2(255)	-	
CUSTOM_ATTRIBUTE6	VARCHAR(255)	VARCHAR2(255)	_	
CUSTOM_ATTRIBUTE7	VARCHAR(255)	VARCHAR2(255)	-	
CUSTOM_ATTRIBUTE8	VARCHAR(255)	VARCHAR2(255)	-	
CUSTOM_ATTRIBUTE9	VARCHAR(255)	VARCHAR2(255)	-	
CUSTOM_ATTRIBUTE10	VARCHAR(255)	VARCHAR2(255)	-	
WORK_TIME_SEC	INTEGER	INTEGER		Calculated value, in seconds, where the total work time is time from agent complete to agent assigned.
FINISH_INTERVAL	INTEGER	INTEGER		Time interval FINISH_DATE_KEY/ FINISH_TIME_KEY. Used for ETL scripts.
CREATED_ETL_AUDIT_KEY	INTEGER	INTEGER		Key to the etl audit dimension describing ETL job that created the task work fact.
UPDATED_ETL_AUDIT_KEY	INTEGER	INTEGER		Key to the etl audit dimension describing the ETL job that last updated the task work fact.

### Task Event Fact (task\_event\_fact)

Task Event Fact provides detailed task audit information. Each change in iWD state creates an audit event in iWD runtime. For example, when a rule is applied, an audit event record records the date and time that the rule was applied, the rule name, and the result of the rule (for example, increase priority from 100 to 110). These events can be seen in iWD Manager runtime view. Each runtime audit event will result in a single Task Event Fact.

In iWD Data Mart database Task Event Fact can be accessed via:

- i\_task\_event\_fact Intraday data table
- h\_task\_event\_fact Historical data table
- task\_event\_fact Blended (historical and intraday) data view

The following is a view of task\_event\_fact star schema, with the standard dimensions surrounding the Fact table:

						event_time				
			-			EVENT_TIME_KEY*	INTEGER(11)		tribution_point	
		result_code	-			EVENT_TIME_24	VARCHAR(6)	DIS	TRIBUTION_POINT_KEY*	INTEGER(11
rule		RESULT_CODE_KEY* INTEGER(11)	The second second second second second	100000000000000000000000000000000000000		EVENT_TIME_12	VARCHAR(8)	DIS	TRIBUTION_POINT_CONFIG_ID	INTEGER(11
RULE_KEY*	INTEGER(11)	RESULT_CODE VARCHAR(64	and the second of the second of the second sec	INTEGER	PVT	TIME_INTERVAL_15MIN	INTEGER(11)	DIS	TRIBUTION_POINT_CFG_EVT_ID	INTEGER(11
RULE_CONFIG_ID	INTEGER(11)	CREATED_ETL_AUDIT_KEY INTEGER(11)		INTEGER	182 183	TIME_INTERVAL_30MIN	INTEGER(11)	DIS	TRIBUTION_POINT_RUNTIME_ID	VARCHAR(16
RULE_CONFIG_EVENT_ID	INTEGER(11)	UPDATED_ETL_AUDIT_KEY INTEGER(11)		INTEGER		TIME_INTERVAL_60MIN	INTEGER(11)	TEN	IANT_KEY	INTEGER(11)
RULE_NAME	VARCHAR(255)		CAPTURE_ID	VARCHA				- sou	UTION_KEY	INTEGER(11)
TENANT_KEY	INTEGER(11)			VARCHA		event_date		DIS	TRIBUTION_POINT_NAME	VARCHAR(25
SOLUTION_KEY	INTEGER(11)	priority	TASK_EVENT_TYPE_KE		St. 15	EVENT_DATE_KEY*	INTEGER(11)	DIS	TRIBUTION_POINT_TYPE	VARCHAR(25
CONTRACT_KEY	INTEGER(11)	PRIORITY_KEY* INTEGER(11)	DISTRIBUTION_POINT_			EVENT_DATE	DATETIME	CRE	ATED_ETL_AUDIT_KEY	INTEGER(11
PROCESS_KEY	INTEGER(11)	PRIORITY_RANGE_5 VARCHAR(32	) EVENT_DATE_KEY	INTEGER	1000000	DAY_NAME	VARCHAR(32)	UPD	ATED_ETL_AUDIT_KEY	INTEGER(11
CREATED_ETL_AUDIT_KEY	INTEGER(11)	PRIORITY_RANGE_10 VARCHAR(32	EVENT TIME VEV	INTEGER	2(11)	DAY_NUM_IN_WEEK	INTEGER(11)	VAL	ID_FROM	DATETIME
UPDATED_ETL_AUDIT_KEY	INTEGER(11)	PRIORITY_RANGE_50 VARCHAR(32	CTATHE VEV	INTEGER	2(11)	DAY_NUM_IN_MONTH	INTEGER(11)	VAL	ID_TO	DATETIME
VALID_FROM_DATE_KEY	INTEGER(11)	PRIORITY_RANGE_100 VARCHAR(32	ACTIVATION DATE VE	Y INTEGER	2(11)	DAY_NUM_IN_YEAR	INTEGER(11)	VEP	SION	INTEGER(11
VALID_FROM_TIME_KEY	INTEGER(11)	PRIORITY_RANGE_500 VARCHAR(32	ACTIVATION TIME KE	Y INTEGER	2(11)	WEEK_NUM_IN_YEAR	INTEGER(11)			
VALID_TO_DATE_KEY	INTEGER(11)	PRIORITY_RANGE_1000 VARCHAR(32	DUE DATE VEV	INTEGER	2(11)	WEEK_START_DATE	DATETIME			
VALID_TO_TIME_KEY	INTEGER(11)		DUE_TIME_KEY	INTEGER	2(11)	WEEK_END_DATE	DATETIME		contract	MITTOFT /:
VALID_FROM	DATETIME	queue	BUSINESS_VALUE_KEY	INTEGER	2(11) >+	MONTH_NAME	VARCHAR(32)		CONTRACT_KEY*	INTEGER(1
VALID_TO	DATETIME	QUEUE_KEY* INTEGER(11)	PRIORITY_KEY	INTEGER	2(11)	MONTH_NUM_IN_YEAR	INTEGER(11)		CONTRACT_CONFIG_ID	INTEGER(1
VERSION	INTEGER(11)		HOE RULE_KEY	INTEGER	2(11)				CONTRACT_CONFIG_EVENT_ID	
0		QUEUE_TYPE VARCHAR(255)	ASSIGNED_AGENT_KEY	INTEGER	8(11)	QUARTER_NUM_IN_YEAR			CONTRACT_RUNTIME_ID	VARCHAR(
ocess		QUEUE_NAME VARCHAR(255)	RESULT_CODE_KEY	INTEGER	2(11)	YEAR_NUM	INTEGER(11)		TENANT_KEY	INTEGER(1
OCESS_KEY*	INTEGER(11)	CREATED_ETL_AUDIT_KEY INTEGER(11)	CONTRACT_KEY	INTEGER	2(11)				SOLUTION_KEY	INTEGER(1
OCESS_CONFIG_ID	INTEGER(11)	UPDATED_ETL_AUDIT_KEY INTEGER(11)	PROCESS_KEY	INTEGER	2(11)	business_value			CONTRACT_NAME	VARCHAR(2
OCESS_CONFIG_EVENT_ID	INTEGER(11)		ENTERED_QUEUE_KEY	INTEGER	8(11)	BUSINESS_VALUE_KEY*	INTEGE	2(11)	CUSTOM_DIM_KEY	INTEGER(1
OCESS_RUNTIME_ID	VARCHAR(16)	queue_target	ENTERED_QUEUE_TAR	GET_KEY INTEGER	2(11)	BUSINESS_VALUE_RANGE	E_5 VARCHA	R(32)	CREATED_ETL_AUDIT_KEY	INTEGER(1
NANT_KEY	INTEGER(11)	QUEUE_TARGET_KEY* INTEGER(11)	HOE EXITED_QUEUE_KEY	INTEGER	2(11)	BUSINESS_VALUE_RANGE	E_10 VARCHA	R(32)	UPDATED_ETL_AUDIT_KEY	INTEGER(1
LUTION_KEY	INTEGER(11)	QUEUE_TYPE VARCHAR(255)	EXITED_QUEUE_TARGE	T_KEY INTEGER	(11)	BUSINESS_VALUE_RANGE	E_50 VARCHA	R(32)	VALID_FROM_DATE_KEY	INTEGER(1
NTRACT_KEY	INTEGER(11)	QUEUE_TARGET_NAME VARCHAR(255)	EVENT_INTERVAL	INTEGER	2(11)	BUSINESS_VALUE_RANGE	E_100 VARCHA	R(32)	VALID_FROM_TIME_KEY	INTEGER(1
OCESS_NAME	VARCHAR(255)	CREATED_ETL_AUDIT_KEY INTEGER(11)	CREATED_ETL_AUDIT_		St. 15.	BUSINESS_VALUE_RANGE	E_500 VARCHA	R(32)	VALID_TO_DATE_KEY	INTEGER(1
STOM_DIM_KEY	INTEGER(11)	UPDATED_ETL_AUDIT_KEY INTEGER(11)	UPDATED_ETL_AUDIT_			BUSINESS_VALUE_RANG	E_1000 VARCHA	R(32)	VALID_TO_TIME_KEY	INTEGER(1
EATED ETL AUDIT KEY	INTEGER(11)	task_event_type							VALID_FROM	DATETIME
DATED_ETL_AUDIT_KEY	INTEGER(11)	TASK_EVENT_TYPE_KEY* INTEGER(11)			w w'	agent		_	VALID_TO	DATETIME
LID_FROM_DATE_KEY	INTEGER(11)	TASK_EVENT_TYPE VARCHAR(64)	, ⊨—_ĭĭĭĭ		Ϋ́	AGENT_KEY*	INTEGER(11)	-	VERSION	INTEGER(1
LID_FROM_TIME_KEY	INTEGER(11)				11	AGENT_ID	VARCHAR(25	5)		
LID_FROM_TIME_KEY	INTEGER(11)	status	1 1		1î.,	CREATED_ETL_AUDIT_KE				
		STATUS_KEY* INTEGER(11)			1 5-+	UPDATED_ETL_AUDIT_KE				
LID_TO_TIME_KEY	INTEGER(11)	STATUS_NAME VARCHAR(16)			+	OPDATED_ETL_AODIT_RE	ET INTEGER(II,			
LID_FROM	DATETIME		lution		etl_audit					
LID_TO	DATETIME	IS_HELD INTEGER(11) SC	LUTION_KEY*	INTEGER(11)	ETL_AUDI	F_KEY* INT	EGER(11)			
RSION	INTEGER(11)		LUTION_CONFIG_ID	INTEGER(11)	ETL_AUDI	F_TIME DAT	TETIME			
		so	LUTION_CONFIG_EVENT_ID	INTEGER(11)	BATCH_ID	INT	EGER(11)			
		so	DUTION_RUNTIME_ID	VARCHAR(16)	DATA_SOU	JRCE_TYPE VAR	CHAR(16)			
		TE	NANT_KEY	INTEGER(11)	DATA_SOU	JRCE_NAME VAR	CHAR(255)			
			LUTION_NAME		PROCESS_		RCHAR(255)			
			EATED_ETL_AUDIT_KEY				EGER(11)			
			DATED_ETL_AUDIT_KEY	INTEGER(11)			EGER(11)			
			LID_FROM				EGER(11)			
		~~~	LID_TO				EGER(11)			
			RSION				EGER(11)			

Task Even Fact table with Dimensions

The Task Event Fact table contains the following fields:

Attribute	MySQL Type	Oracle Type	PK	Description
TASK_EVENT_ID	INTEGER	INTEGER	Х	Unique ID for the event
SOLUTION_KEY	INTEGER	INTEGER	Х	Key to the solution dimension.
TASK_ID	INTEGER	INTEGER		Unique ID for the task.
CAPTURE_ID	VARCHAR(64)	VARCHAR2(64)		Capture ID for the task.
DISTRIBUTION_ID	VARCHAR(64)	VARCHAR2(64)		Distribution ID for the task.
TASK_EVENT_TYPE_KEY	INTEGER	INTEGER		Key to the task event type dimension. Event types are iWD event types like Rule Applied. Event Types can be viewed in the task history in iWD Manager.
DISTRIBUTION_POINT_KEY	INTEGER	INTEGER		Key to the distribution point dimension describing the task's parent iWD distribution point (for example, name = Toronto Call Center).
EVENT_DATE_KEY	INTEGER	INTEGER		Key to the event date for when the event occurred.
EVENT_TIME_KEY	INTEGER	INTEGER		Key to the event time for when the event occurred.
STATUS_KEY	INTEGER	INTEGER		Key to the status dimension.

Attribute	MySQL Type	Oracle Type	PK	Description
ACTIVATION_DATE_KEY	INTEGER	INTEGER		Key to the event date dimension describing the iWD task activation date. Tasks can be submitted and not acted upon until this date.
ACTIVATION_TIME_KEY	INTEGER	INTEGER		Key to the iWD task activation time.
DUE_DATE_KEY	INTEGER	INTEGER		Key to the event date dimension describing the task due date as set by iWD rules or by the source system.
DUE_TIME_KEY	INTEGER	INTEGER		Key to the event time dimension describing task due time.
BUSINESS_VALUE_KEY	INTEGER	INTEGER		Key to the business value dimension.
PRIORITY_KEY	INTEGER	INTEGER		Key to the priority dimension.
RULE_KEY	INTEGER	INTEGER		Key to the rule dimension describing the rule that generated the event record. May not apply to all Events and therefore may not be populated for all records in this fact table.
ASSIGNED_AGENT_KEY	INTEGER	INTEGER		Key to the agent dimension for when event record resulted in a task assignment to an agent.
RESULT_CODE_KEY	INTEGER	INTEGER		Key to the result code dimension when the event is an update of a result code by the agent or source system.
CONTRACT_KEY	INTEGER	INTEGER		Key to the contract dimension describing the iWD contract.
PROCESS_KEY	INTEGER	INTEGER		Key to the process dimension describing the iWD process.
ENTERED_QUEUE_KEY	INTEGER	INTEGER		Key to the queue dimension describing the queue in which the task has entered (for event types DISTRIBUTE_WORKBIN and DISTRIBUTE_QUEUE).
ENTERED_QUEUE_TARGET_KEY	INTEGER	INTEGER		Key to the queue target dimension describing the agent, agent group, place or place group to which the task is assigned in new (entered) workbin (for event type DISTRIBUTE_WORKBIN).
EXITED_QUEUE_KEY	INTEGER	INTEGER		Key to the queue dimension describing the queue from which the task has exited (for event types DISTRIBUTE_WORKBIN and DISTRIBUTE_QUEUE).
EXITED_QUEUE_TARGET_KEY	INTEGER	INTEGER		Key to the queue target dimension describing the agent, agent group, place or place group to which the task was assigned in previous (exit) workbin (for event type DISTRIBUTE_WORKBIN and DISTRIBUTE_QUEUE).
CUSTOM_DATA_KEY	INTEGER	INTEGER		Key to the custom dim dimension,
EVENT_INTERVAL	INTEGER	INTEGER		Time interval EVENT_DATE_KEY/ EVENT_TIME_KEY. Used for ETL scripts.
CREATED_ETL_AUDIT_KEY	INTEGER	INTEGER		Key to the etl audit dimension storing attributes related to the ETL job that created the task.
UPDATED_ETL_AUDIT_KEY	INTEGER	INTEGER		Key to the etl audit that updated the task fact.
WORK_TIME_SEC	INTEGER	INTEGER		Nr of seconds that agent worked on task
HELD_TIME_SEC	INTEGER	INTEGER		Nr of seconds that task was in HELD state

### **Aggregate Facts**

Aggregate facts are aggregated representations of the core facts that were described in previous sections. There are three main purposes for aggregated facts:

- Simplified data queries
- Increased query performance
- Decreased database size (granular core facts don't need to be stored for an extended period of time)

Each aggregated fact in iWD Data Mart is an aggregation of two dimensions, one of which is always a time interval. iWD Data Mart directly aggregates facts for two time intervals:15 minutes (intraday and historical) and day (historical).



In addition, the following aggregation levels are supported via database views: 30-Minute, Hourly, Weekly, Monthly, Quarterly, and Yearly.

Each aggregated fact table is postfixed with a time interval: \_15min, \_30min, \_hour, \_day, \_week, \_month, \_quarter, or \_year.

Similar to core facts, intraday aggregations are prefixed with i\_ and historical aggregations are prefixed with h\_. Blended aggregations are available only for 15-minute, 30-minute, and hourly time intervals. The following table lists all possible aggregation tables and views per single aggregation type:

Name	Aggregate Type	Туре
i_ <aggregation_fact>_15min</aggregation_fact>	Intraday 15-min aggregation	Table
i_ <aggregation_fact>_30min</aggregation_fact>	Intraday 30-min aggregation	View
i_ <aggregation_fact>_hour</aggregation_fact>	Intraday hour aggregation	View
h_ <aggregation_fact>_15min</aggregation_fact>	Historical 15-min aggregation	Table
h_ <aggregation_fact>_day</aggregation_fact>	Historical day aggregation	Table
h_ <aggregation_fact>_week</aggregation_fact>	Historical week aggregation	View
h_ <aggregation_fact>_month</aggregation_fact>	Historical month aggregation	View
h_ <aggregation_fact>_quarter</aggregation_fact>	Historical quarter aggregation	View
h_ <aggregation_fact>_year</aggregation_fact>	Historical year aggregation	View
<aggregation_fact>_15min</aggregation_fact>	Blended 15-min aggregation	View
<aggregation_fact>_30min</aggregation_fact>	Blended 30-min aggregation	View
<aggregation_fact>_hour</aggregation_fact>	Blended hour aggregation	View

### Aggregate Task Capture Fact

The Aggregate Task Capture Fact (task\_capt\_fact) aggregates various task measures, which are grouped by task process, capture point, and business value. Only the tasks that have been classified (status is at least Queued) are included in the aggregations.

Attribute	MySQL Type	Oracle Type	РК	Description
PROCESS_KEY	INTEGER	INTEGER	Х	Key to process dimension table.
CAPTURE_POINT_KEY	INTEGER	INTEGER	Х	Key to capture_point dimension table.
CUSTOM_DIM_KEY	INTEGER	INTEGER	Х	Key to custom_dim dimension table.
BUSINESS_VALUE_KEY	INTEGER	INTEGER	Х	Key to business_value dimension table.
INTERVAL_DATE_KEY	INTEGER	INTEGER	Х	Key to event_date dimension, indicating start date of time interval. In combination with INTERVAL_TIME_KEY represents the time aggregation axis.
INTERVAL_TIME_KEY	INTEGER	INTEGER	Х	Key to event_time dimension, indicating start time of time interval. Applicable only for sub-day aggregations (15 min, 30 min, hour). In combination with INTERVAL_DATE_KEY represents the time aggregation axis.
INTERVAL_KEY	INTEGER	INTEGER		Technical field used by ETL.
				= $\frac{INTERVAL_DATE_KEY * 1440 + INTERVAL_TIME_KEY}{15}$
NEW_TASK_COUNT	INTEGER	INTEGER		How many New tasks were submitted to iWD during the given time interval. Task is counted only after it has been classified (status is at least Queued).
CMPL_TASK_COUNT	INTEGER	INTEGER		How many tasks were Completed during the given time interval.
COMPLETED_OVERDUE_TASK_COUNT	INTEGER	INTEGER		How many tasks have been Completed during the given time interval that had been Overdue; that is, the SLA for the task expired or the Due date/time was not met.
CMPL_TASK_AVG_WORK_TIME	INTEGER	INTEGER		Average agent work time (from Finished date/time stamp - Assigned date/time stamp for a task, see task history in iWD Manager for examples) in seconds for Completed tasks during the given time interval.
CMPL_TASK_AVG_ASSIGN_TIME	INTEGER	INTEGER		Average time before a task was Assigned, measured in seconds and calculated using the task Assigned - Created date/time stamp for Completed tasks during the given time interval. Measures how long, on average, tasks were in backlog before being assigned to an Agent.
CMPL_TASK_AVG_COMPLETE_TIME	INTEGER	INTEGER		Average time before a task was Completed, measured in seconds and calculated using the task Completed - Created date/time stamp for Completed tasks during the given time interval. Measures how long a task was in backlog, similar to Average Assign time, but this measure also includes work time.
CMPL_TASK_AVG_DISTRIBUTE_TIME	INTEGER	INTEGER		Average distribution time (distributed-created) in seconds for completed tasks during the given time interval. Measures how long tasks were in "iWD Backlog" before being distributed to the routing platform (for example, distributed to Genesys Open Media queue).
CMPL_TASK_AVG_SRC_TIME	INTEGER	INTEGER		Average source system time (created-source created) in seconds for completed tasks during the given time interval. Measures the average time a task spent in preceding system before being submitted to iWD. Source Create Date/time is an extended attribute that must be provided by the source system
CMPL_TASK_AVG_PRE_SRC_TIME	INTEGER	INTEGER		Average pre-source system time (source created-first created) in seconds for completed tasks during the given time interval. Same as previous, except beginning time stamp is the system before the preceding system to iWD (for example, fax server to workflow to iWD, fax server is the source first created).
TOTAL_PENDING_TASK_COUNT	INTEGER	INTEGER		Current number of pending (status is Queued, Distributed, Assigned or Held) tasks at the end of the given time interval.
TOTAL_OVERDUE_TASK_COUNT	INTEGER	INTEGER		Current number of pending tasks that areoverdue tasks at the end of the given time interval. A task is considered overdue when the SLA due date/time has been missed.

## Aggregate Task Distribution Fact

Aggregate Task Distribution Fact (task\_dist\_fact) aggregates various task measures, which are grouped by task process, distribution point, and priority over the different time intervals. Only the tasks that have been classified (status is at least Queued) are included in the aggregations.

Attribute	MySQL Type	Oracle Type	РК	Description
PROCESS_KEY	INTEGER	INTEGER	Х	Key to process dimension table.
DISTRIBUTION_POINT_KEY	INTEGER	INTEGER	Х	Key to distribution_point dimension table.
CUSTOM_DIM_KEY	INTEGER	INTEGER	Х	Key to custom_dim dimension table.
PRIORITY_KEY	INTEGER	INTEGER	Х	Key to priority dimension table.
INTERVAL_DATE_KEY	INTEGER	INTEGER	Х	Key to event_date dimension, indicating start date of time interval. In combination with INTERVAL_TIME_KEY represents the time aggregation axis.
INTERVAL_TIME_KEY	INTEGER	INTEGER	Х	Key to event_time dimension, indicating start time of time interval. Applicable only for sub-day aggregations (15 min, 30 min, hour). In combination with INTERVAL_DATE_KEY represents the time aggregation axis.
INTERVAL_KEY	INTEGER	INTEGER		Technical field used by ETL.
				= INTERVAL_DATE_KEY * 1440 + INTERVAL_TIME_KEY
NEW_TASK_COUNT	INTEGER	INTEGER		15 How many New tasks were submitted to iWD during the
				given time interval. Task is counted only after it has been classified (status is at least Queued).
CMPL_TASK_COUNT	INTEGER	INTEGER		How many tasks has been completed during the given time interval.
COMPLETED_OVERDUE_TASK_COUNT	INTEGER	INTEGER		How many tasks has been Completed during the given time interval that had been overdue.
CMPL_TASK_AVG_WORK_TIME	INTEGER	INTEGER		Average agent work time (finished - assigned) in seconds for completed tasks during the given time interval.
CMPL_TASK_AVG_ASSIGN_TIME	INTEGER	INTEGER		Average assign time (assigned-created) in seconds for completed tasks during the given time interval.
CMPL_TASK_AVG_COMPLETE_TIME	INTEGER	INTEGER		Average distribution time (distributed-created) in seconds for completed tasks during the given time interval.
CMPL_TASK_AVG_DISTRIBUTE_TIME	INTEGER	INTEGER		Average distribution time (distributed-created) in seconds for completed tasks during the given time interval.
CMPL_TASK_AVG_SRC_TIME	INTEGER	INTEGER		Average source system time (created-source created) in seconds for completed tasks during the given time interval.
CMPL_TASK_AVG_PRE_SRC_TIME	INTEGER	INTEGER		Average pre-source system time (source created-first created) in seconds for completed tasks during the given time interval.
TOTAL_PENDING_TASK_COUNT	INTEGER	INTEGER		Current number of pending (status is Queued, Distributed, Assigned, or Held) tasks at the end of the given time interval.
TOTAL_OVERDUE_TASK_COUNT	INTEGER	INTEGER		Current number of pending tasks that are overdue tasks at the end of the given time interval. A task is considered overdue when the SLA due date/time has been missed.
TOTAL_DISTRIBUTED_TASK_COUNT	INTEGER	INTEGER		Current number of pending tasks that are distributed (status is Distributed or Assigned).

## Aggregate Task Classification Fact

Aggregate Task Classification Fact (task\_classif\_fact) aggregates various task measures, which are grouped by task process, media channel, category, customer segment, media, product, source process, and source tenant over the different time

intervals. Only the tasks that have been classified (status is at least Queued) are included in the aggregations.

Attribute	MySQL Type	Oracle Type	РК	Description
PROCESS_KEY	INTEGER	INTEGER	Х	Key to process dimension table.
MEDIA_CHANNEL_KEY	INTEGER	INTEGER	Х	Key to media_channel dimension table.
CATEGORY_KEY	INTEGER	INTEGER	Х	Key to category dimension table.
CUSTOMER_SEGMENT_KEY	INTEGER	INTEGER	Х	Key to customer_segment dimension table.
PRODUCT_KEY	INTEGER	INTEGER	Х	Key to product dimension table.
SOURCE_PROCESS_KEY	INTEGER	INTEGER	Х	Key to source_process dimension table.
SOURCE_TENANT_KEY	INTEGER	INTEGER	Х	Key to source_tenant dimension table.
CUSTOM_DIM_KEY	INTEGER	INTEGER	Х	Key to custom_dim dimension table.
INTERVAL_DATE_KEY	INTEGER	INTEGER	Х	Key to event_date dimension, indicating start date of time interval. In combination with INTERVAL_TIME_KEY represents the time aggregation axis.
INTERVAL_TIME_KEY	INTEGER	INTEGER	Х	Key to event_time dimension, indicating start time of time interval. Applicable only for sub-day aggregations (15 min, 30 min, hour). In combination with INTERVAL_DATE_KEY represents the time aggregation axis.
INTERVAL_KEY	INTEGER	INTEGER		Technical field used by ETL.
				= $\frac{INTERVAL_DATE_KEY * 1440 + INTERVAL_TIME_KEY}{15}$
NEW_TASK_COUNT	INTEGER	INTEGER		How many New tasks were submitted to iWD during the given time interval. Task is counted only after it has been classified (status is at least Queued).
CMPL_TASK_COUNT	INTEGER	INTEGER		How many tasks has been completed during the given time interval.
COMPLETED_OVERDUE_TASK_COUNT	INTEGER	INTEGER		How many tasks has been completed during the given time interval that had been overdue.
CMPL_TASK_AVG_WORK_TIME	INTEGER	INTEGER		Average agent work time (finished-assigned) in seconds for completed tasks during the given time interval.
CMPL_TASK_AVG_ASSIGN_TIME	INTEGER	INTEGER		Average assign time (assigned-created) in seconds for completed tasks during the given time interval.
CMPL_TASK_AVG_COMPLETE_TIME	INTEGER	INTEGER		Average distribution time (distributed-created) in seconds for completed tasks during the given time interval.
CMPL_TASK_AVG_DISTRIBUTE_TIME	INTEGER	INTEGER		Average distribution time (distributed-created) in seconds for completed tasks during the given time interval.
CMPL_TASK_AVG_SRC_TIME	INTEGER	INTEGER		Average source system time (created-source created) in seconds for completed tasks during the given time interval.
CMPL_TASK_AVG_PRE_SRC_TIME	INTEGER	INTEGER		Average pre-source system time (source created-first created) in seconds for completed tasks during the given time interval.
TOTAL_PENDING_TASK_COUNT	INTEGER	INTEGER		Current number of pending (status is Queued, Distributed, Assigned, or Held) tasks at the end of the given time interval.
TOTAL_OVERDUE_TASK_COUNT	INTEGER	INTEGER		Current number of pending tasks that are overdue tasks at the end of the given time interval. A task is considered overdue when the SLA due date/time has been missed.

### Aggregate Task Agent Fact

Aggregate Task Agent fact (task\_agent\_fact) aggregates various task measures, which are grouped by task process, assigned agent, and result code over the different time intervals. This aggregate is based on Task Work Fact; so that the numbers are based on how many times an agent has worked on tasks, which could be different from how many tasks are actually completed.

Attribute	MySQL Type	Oracle Type	PK	Description
PROCESS_KEY	INTEGER	INTEGER	Х	Key to process dimension table.
AGENT_KEY	INTEGER	INTEGER	Х	Key to agent dimension table.
QUEUE_KEY	INTEGER	INTEGER	Х	Key to the queue dimension
RESULT_CODE_KEY	INTEGER	INTEGER	Х	Key to result_code dimension table.
INTERVAL_DATE_KEY	INTEGER	INTEGER	Х	Key to event_date dimension, indicating start date of time interval.
INTERVAL_TIME_KEY	INTEGER	INTEGER	Х	Key to event_time dimension, indicating start time of time interval. Applicable only for sub-day aggregations (15 min, 30 min, hour).
INTERVAL_KEY	INTEGER	INTEGER		Technical field used by ETL.
				= $\frac{INTERVAL_DATE_KEY * 1440 + INTERVAL_TIME_KEY}{15}$
TASK_WORK_COUNT	INTEGER	INTEGER		How many tasks agent has handled during the given time interval.
AVG_WORK_TIME	INTEGER	INTEGER		Average agent work time on a task (finished-assigned) in seconds.
MIN_WORK_TIME	INTEGER	INTEGER		Minimal agent work time on a task in seconds.
MAX_WORK_TIME	INTEGER	INTEGER		Maximal agent work time on a task in seconds.

### Aggregate Task Age Fact

Aggregate Task Age Fact (task\_age\_fact) aggregates various task age measures, which are grouped by task process and age over the different time intervals. Only the tasks that have been classified (status is at least Queued) are included in the aggregations.

Attribute	MySQL Type	Oracle Type	РК	Description
PROCESS_KEY	INTEGER	INTEGER	Х	Key to process dimension table.
AGE_KEY	INTEGER	INTEGER	Х	Key to age dimension table (equals number of minutes).
AGE_TYPE	INTEGER	INTEGER	X	Indicates age type: • 1 - since source first created. • 2 - since source created. • 3 - since created. • 4 - since activated. • 5 - since distributed. • 6 - since assigned.
INTERVAL_DATE_KEY	INTEGER	INTEGER	Х	Key to the interval date dimension.
INTERVAL_TIME_KEY	INTEGER	INTEGER	Х	Key to the interval time dimension.
TOTAL_PENDING_TASK_COUNT	INTEGER	INTEGER		Current number of pending (status is Queued, Distributed, Assigned or Held) tasks at the end of the given time interval.
TOTAL_OVERDUE_TASK_COUNT	INTEGER	INTEGER		Current number of pending tasks that are overdue tasks at the end of the given time interval. A task is considered overdue when the SLA due date/time has been missed.

## Aggregate Task Queue Fact

Aggregate Task Queue Fact (task\_queue\_fact) aggregates various task measures, which are grouped by task distribution queue, process, and priority over the different time intervals. Only the tasks that have been distributed (status is Distributed or Assigned) are included in the aggregations.

Attribute	MySQL Type	Oracle Type	PK	Description
INTERVAL_DATE_KEY	INTEGER	INTEGER	Х	Key to the event_date dimension
INTERVAL_TIME_KEY	INTEGER	INTEGER	Х	Key to the event_time dimension
QUEUE_KEY	INTEGER	INTEGER	Х	Key to queue dimension table.
PROCESS_KEY	INTEGER	INTEGER	Х	Key to process dimension table.
CUSTOM_DIM_KEY	INTEGER	INTEGER	Х	Key to custom_dim dimension table.
ENTERED_TASK_COUNT	INTEGER	INTEGER		How many tasks have entered (DISTRIBUTE_QUEUE and DISTRIBUTE_WORKBIN iWD task events) the queue during the given time interval.
EXITED_TASK_COUNT	INTEGER	INTEGER		How many tasks have exited the queue (that is, have entered another queue) during the given time interval.
CMPL_TASK_COUNT	INTEGER	INTEGER		How many tasks has been completed during the given time interval.
COMPLETED_OVERDUE_TASK_COUNT	INTEGER	INTEGER		How many tasks has been completed during the given time interval that had been overdue.
CMPL_TASK_AVG_WORK_TIME	INTEGER	INTEGER		Average agent work time (finished-assigned) in seconds for completed tasks during the given time interval.
CMPL_TASK_AVG_ASSIGN_TIME	INTEGER	INTEGER		Average assign time (assigned-created) in seconds for completed tasks during the given time interval.
CMPL_TASK_AVG_COMPLETE_TIME	INTEGER	INTEGER		Average distribution time (distributed-created) in seconds for completed tasks during the given time interval.
CMPL_TASK_AVG_DISTRIBUTE_TIME	INTEGER	INTEGER		Average distribution time (distributed-created) in seconds for completed tasks during the given time interval.
CMPL_TASK_AVG_SRC_TIME	INTEGER	INTEGER		Average source system time (created-source created) in seconds for completed tasks during the given time interval.
CMPL_TASK_AVG_PRE_SRC_TIME	INTEGER	INTEGER		Average pre-source system time (source created-first created) in seconds for completed tasks during the given time interval.
TOTAL_PENDING_TASK_COUNT	INTEGER	INTEGER		Current number of pending (status is Queued, Distributed, Assigned or Held) tasks at the end of the given time interval.
TOTAL_OVERDUE_TASK_COUNT	INTEGER	INTEGER		Current number of pending tasks that are overdue tasks at the end of the given time interval. A task is considered overdue when the SLA due date/time has been missed.

### Aggregate Task Queue Age Fact

Aggregate Task Queue Age Fact (task\_queue\_age\_fact) aggregates various task age measures, which are grouped by task distribution queue and age over the different time intervals. Only the tasks that have been classified (status is at least Queued) are included in the aggregations.

Attribute	MySQL Type	Oracle Type	PK	Description
QUEUE_KEY	INTEGER	INTEGER	Х	Key to process dimension table.
AGE_KEY	INTEGER	INTEGER	Х	Key to age dimension table (equals number of minutes).
AGE_TYPE	INTEGER	INTEGER	X	Indicates age type: • 1 - since source first created. • 2 - since source created. • 3 - since created. • 4 - since activated. • 5 - since distributed. • 6 - since assigned.
INTERVAL_DATE_KEY	INTEGER	INTEGER	Х	Key to the interval date dimension
INTERVAL_TIME_KEY	INTEGER	INTEGER	Х	Key to the interval time dimension
INTERVAL_KEY	INTEGER	INTEGER		Technical field used by ETL.

Attribute	MySQL Type	Oracle Type	РК	Description
TOTAL_PENDING_TASK_COUNT	INTEGER	INTEGER		Current number of pending (status is Queued, Distributed, Assigned or Held) tasks at the end of the given time interval.
TOTAL_OVERDUE_TASK_COUNT	INTEGER	INTEGER		Current number of pending tasks that are overdue tasks at the end of the given time interval. A task is considered overdue when the SLA due date/time has been missed.
CMPL_TASK_COUNT	INTEGER	INTEGER		How many tasks has been completed during the given time interval.

### **Dimensions**

Dimensions contain static or slowly changing information – as well as information that is used in lookups against the Fact tables - and provide the basis for OLAP/Cube queries. Dimensions in the iWD Data Mart are populated from one of three sources:

- Static values, such as date and time dimensions
- iWD Configuration, as defined in iWD Manager.
- iWD task data

### **Event Date Dimension**

The iWD Data Mart Event Date Dimension is a static dimension that contains date information. The table name is event\_date and contains the following fields:

Attribute	MySQL Type	Oracle Type	Description
EVENT_DATE_KEY	INTEGER	INTEGER	Primary key
EVENT_DATE	DATETIME	TIMESTAMP	Date of event_key
DAY_NAME	VARCHAR(32)	VARCHAR2(32)	Text name of day (Monday, Tuesday, and so on)
DAY_NUM_IN_WEEK	INTEGER	INTEGER	Day in week (1-7)
DAY_NUM_IN_MONTH	INTEGER	INTEGER	Day in month (ex. 1-31)
DAY_NUM_IN_YEAR	INTEGER	INTEGER	Day in year (1-365)
WEEK_NUM_IN_YEAR	INTEGER	INTEGER	Week number in year (1-52)
WEEK_START_DATE	DATETIME	TIMESTAMP	Date of the first day of the week
WEEK_END_DATE	DATETIME	TIMESTAMP	Date of the last day of the week
MONTH_NAME	VARCHAR(32)	VARCHAR2(32)	Text name of the month (for example, January)
MONTH_NUM_IN_YEAR	INTEGER	INTEGER	Month in year (1-12)
QUARTER_NUM_IN_YEAR	INTEGER	INTEGER	Quarter (1-4)
YEAR_NUM	INTEGER	INTEGER	Year (for example, 2007)

### **Event Time Dimension**

Like event date dimension, the Event Time dimension is a static dimension that contains time information. The table name is event\_time and contains the following fields:

Attribute	Oracle Type	Primary	Not Null	Description
EVENT_TIME_KEY	INTEGER	YES	YES	Primary key
EVENT_TIME_24	VARCHAR2(6)	NO	NO	24-hour time, stored in the format HHMMSS; for example, "230159"
EVENT_TIME_12	VARCHAR2(8)	NO	NO	12-hour time, including 'am/pm'; for example, "110159pm"
TIME_INTERVAL_15MIN	INTEGER	NO	NO	The 15-minute interval that the time falls in (1-96)
TIME_INTERVAL_30MIN	INTEGER	NO	NO	The 30-minute interval that the time falls in (1-48)
TIME_INTERVAL_60MIN	INTEGER	NO	NO	The 60-minute interval that the time falls in (1-24)

### **Tenant Dimension**

The Tenant dimension describes the iWD tenant, and the values are populated from the values set up in iWD Manager. As a multi-tenant solution, iWD can be configured with many tenants. The tenant forms part of the ownership chain for a task. The table name is tenant, and contains the following fields:

Attribute	MySQL Type	Oracle Type	Description
TENANT_KEY	INTEGER	INTEGER	Primary key
TENANT_CONFIG_ID	INTEGER	INTEGER	iWD Manager ID for the tenant
TENANT_CONFIG_EVENT_ID	INTEGER	INTEGER	Event that created/updated the tenant record
TENANT_RUNTIME_ID	VARCHAR(255)	VARCHAR2(255)	iWD Manager runtime ID for the tenant
TENANT_NAME	VARCHAR(255)	VARCHAR2(255)	Descriptive name of the tenant
CUSTOM_DIM_KEY	INTEGER	INTEGER	Key to custom_dim dimension table containing custom attributes for the tenant.
CREATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that created this record
UPDATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that updated this record
VALID_FROM	DATETIME	TIMESTAMP	For the version of the record, the date that it is valid from
VALID_TO	DATETIME	TIMESTAMP	For the version of the record, the date that it is valid to
VERSION	INTEGER	INTEGER	Version of the record

### **Solution Dimension**

Each tenant in iWD can have one or more solutions. A solution can be configured in iWD for testing a new iWD configuration, independent of a production solution. Solution information is populated from iWD Manager configuration. Many fact tables in iWD Data Mart use the solution\_key as a primary key.

Attribute	MySQL Type	Oracle Type	Description
SOLUTION_KEY	INTEGER	INTEGER	Primary key
SOLUTION_CONFIG_ID	INTEGER	INTEGER	iWD Manager ID for the solution

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Attribute	MySQL Type	Oracle Type	Description
SOLUTION_CONFIG_EVENT_ID	INTEGER	INTEGER	Event that created/updated the solution record
SOLUTION_RUNTIME_ID	VARCHAR(16)	VARCHAR2(16)	iWD Manager runtime ID for the solution
TENANT_KEY	INTEGER	INTEGER	Tenant the solution is associated with
SOLUTION_NAME	VARCHAR(255)	VARCHAR2(255)	Descriptive name of the solution
CREATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that created this record
UPDATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that updated this record
VALID_FROM	DATETIME	TIMESTAMP	For the version of the record, the date that it is valid from
VALID_TO	DATETIME	TIMESTAMP	For the version of the record, the date that it is valid to
VERSION	INTEGER	INTEGER	Version of the record

### **Capture Point Dimension**

Tasks are captured through a capture point that is configured in iWD Manager. Capture point information is populated from task information. The table name is capture\_point and contains the following fields:

Attribute	MySQL Type	Oracle Type	Description
CAPTURE_POINT_KEY	INTEGER	INTEGER	Primary key
CAPTURE_POINT_CONFIG_ID	INTEGER	INTEGER	iWD Manager ID for the capture_point
CAPTURE_POINT_CONFIG_EVENT_ID	INTEGER	INTEGER	Event that created/updated the capture_point record
CAPTURE_POINT_RUNTIME_ID	VARCHAR(16)	VARCHAR2(16)	iWD Manager runtime ID for the capture_point
TENANT_KEY	INTEGER	INTEGER	Tenant the capture_point is associated with
SOLUTION_KEY	INTEGER	INTEGER	Primary key
CAPTURE_POINT_NAME	VARCHAR(255)	VARCHAR2(255)	Descriptive name of the capture_point
CAPTURE_POINT_TYPE	VARCHAR(255)	VARCHAR2(255)	Type of capture point
CREATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that created this record
UPDATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that updated this record
VALID_FROM	DATETIME	TIMESTAMP	For the version of the record, the date that it is valid from
VALID_TO	DATETIME	TIMESTAMP	For the version of the record, the date that it is valid to
VERSION	INTEGER	INTEGER	Version of the record

### **Distribution Point Dimension**

Captured tasks are sent for completion via a distribution point. Configured in iWD, the distribution point dimension contains key information about the distribution point. Distribution point is a core iWD attribute. The table name is distribution\_point and contains the following fields:

Attribute	MySQL Type	Oracle Type	Description
DISTRIBUTION_POINT_KEY	INTEGER	INTEGER	Primary key
DISTRIBUTION_POINT_CONFIG_ID	INTEGER	INTEGER	iWD Manager ID for the distribution_point
Attribute	MySQL Type	Oracle Type	Description
-------------------------------	--------------	---------------	---------------------------------------------------------------
DISTRIBUTION_POINT_CFG_EVT_ID	INTEGER	INTEGER	Event that created/updated the distribution_point record
DISTRIBUTION_POINT_RUNTIME_ID	VARCHAR(16)	VARCHAR2(16)	iWD Manager runtime ID for the distribution_point
TENANT_KEY	INTEGER	INTEGER	Tenant the distribution_point is associated with
SOLUTION_KEY	INTEGER	INTEGER	Solution the capture point is associated with
DISTRIBUTION_POINT_NAME	VARCHAR(255)	VARCHAR2(255)	Descriptive name of the distribution_point
DISTRIBUTION_POINT_TYPE	VARCHAR(255)	VARCHAR2(255)	Type of distribution point
CREATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that created this record
UPDATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that updated this record
VALID_FROM	DATETIME	TIMESTAMP	for the version of the record, the date that it is valid from
VALID_TO	DATETIME	TIMESTAMP	for the version of the record, the date that it is valid to
VERSION	INTEGER	INTEGER	version of the record

## **Contract Dimension**

All tasks are associated with a contract that is configured in iWD Manager. The table name is contract and it contains the following fields:

Attribute	MySQL Type	Oracle Type	Description
CONTRACT_KEY	INTEGER	INTEGER	Primary key
CONTRACT_CONFIG_ID	INTEGER	INTEGER	iWD Manager ID for the contract
CONTRACT_CONFIG_EVENT_ID	INTEGER	INTEGER	Event that created/updated the contract record
CONTRACT_RUNTIME_ID	VARCHAR(16)	VARCHAR2(16)	iWD Manager runtime ID for the contract
TENANT_KEY	INTEGER	INTEGER	Tenant the contract is associated with
SOLUTION_KEY	INTEGER	INTEGER	Solution the contract is associated with
CONTRACT_NAME	VARCHAR(255)	VARCHAR2(255)	Descriptive name of the contract
CUSTOM_DIM_KEY	INTEGER	INTEGER	Key to custom_dim dimension table containing custom attributes for the contract.
CREATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that created this record
UPDATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that updated this record
VALID_FROM_DATE_KEY	INTEGER	INTEGER	Date key for the contract attribute "valid from"
VALID_FROM_TIME_KEY	INTEGER	INTEGER	Time key for the contract attribute "valid from"
VALID_TO_DATE_KEY	INTEGER	INTEGER	Date key for the contract attribute "valid to"
VALID_TO_TIME_KEY	INTEGER	INTEGER	Time key for the contract attribute "valid to"
VALID_FROM	DATETIME	TIMESTAMP	For the version of the record, the date that it is valid from
VALID_TO	DATETIME	TIMESTAMP	For the version of the record, the date that it is valid to
VERSION	INTEGER	INTEGER	Version of the record

## **Process Dimension**

All tasks are associated with a business process. Processes are associated with a contract in iWD. Populated from iWD Manager configurations, the process dimension contains information on iWD processes. The table name is process and contains the following fields:

Attribute	MySQL Type	Oracle Type	Description
PROCESS_KEY	INTEGER	INTEGER	Primary key
PROCESS_CONFIG_ID	INTEGER	INTEGER	iWD Manager ID for the process
PROCESS_CONFIG_EVENT_ID	INTEGER	INTEGER	Event that created/updated the process record
PROCESS_RUNTIME_ID	VARCHAR(16)	VARCHAR2(16)	iWD Manager runtime ID for the process
TENANT_KEY	INTEGER	INTEGER	Tenant the process is associated with
SOLUTION_KEY	INTEGER	INTEGER	Solution the process is associated with
CONTRACT_KEY	INTEGER	INTEGER	Contract the process is associated with
PROCESS_NAME	VARCHAR(255)	VARCHAR2(255)	Descriptive name of the process
CUSTOM_DIM_KEY	INTEGER	INTEGER	Key to custom_dim dimension table containing custom attributes for the process.
CREATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that created this record
UPDATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that updated this record
VALID_FROM_DATE_KEY	INTEGER	INTEGER	Date key for the process attribute "valid from"
VALID_FROM_TIME_KEY	INTEGER	INTEGER	Time key for the process attribute "valid from"
VALID_TO_DATE_KEY	INTEGER	INTEGER	Date key for the process attribute "valid to"
VALID_TO_TIME_KEY	INTEGER	INTEGER	Time key for the process attribute "valid to"
VALID_FROM	DATETIME	TIMESTAMP	For the version of the record, the date that it is valid from
VALID_TO	DATETIME	TIMESTAMP	For the version of the record, the date that it is valid to
VERSION	INTEGER	INTEGER	Version of the record

## Media Channel Dimension

Media channel describe the type of media, or channel (for example, webform, fax) via which the task was received. It is populated from task information and is a core iWD attribute. The table name is media\_channel and contains the following fields:

Attribute	MySQL Type	Oracle Type	Description
MEDIA_CHANNEL_KEY	INTEGER	INTEGER	Primary key
CHANNEL_NAME	VARCHAR(255)	VARCHAR2(255)	name of the media channel
CREATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that created this record
UPDATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that updated this record

# **Category Dimensions**

Populated from task information, the category dimension contains a list of categories that further describe a task. For example, a category might be a specific type of refund. It is an extended iWD attribute and can be set by the source system. The table name is category and contains the following fields:

Attribute	MySQL Type	Oracle Type	Description
CATEGORY_KEY	INTEGER	INTEGER	Primary key
CATEGORY_NAME	VARCHAR(255)	VARCHAR2(255)	Name of the category
CREATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that created this record
UPDATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that updated this record

## **Priority Dimension**

Priority is a static dimension. The priority\_key represents the value of the priority. The table name is priority and contains the following fields:

Attribute	MySQL Type	Oracle Type	Description
PRIORITY_KEY	INTEGER	INTEGER	Primary key
PRIORITY_RANGE_5	VARCHAR(32)	VARCHAR2(32)	Values in the priority granularity of 5; that is 1-5, 6- 10 and so on
PRIORITY_RANGE_10	VARCHAR(32)	VARCHAR2(32)	Values in the priority granularity of 10; that is 1-10, 11-20 and so on
PRIORITY_RANGE_50	VARCHAR(32)	VARCHAR2(32)	Values in the priority granularity of 50; that is 1-50, 51-100 and so on
PRIORITY_RANGE_100	VARCHAR(32)	VARCHAR2(32)	Values in the priority granularity of 100; that is 1- 100, 101-200 and so on
PRIORITY_RANGE_500	VARCHAR(32)	VARCHAR2(32)	Values in the priority granularity of 500; that is 1- 500, 501-1000 and so on
PRIORITY_RANGE_1000	VARCHAR(32)	VARCHAR2(32)	Values in the priority granularity of 1000; that is 1- 1000, 1001-2000 and so on

#### **Business Value Dimension**

Business value is a static dimension. The business\_value\_key represents the business value of the task. The table name is business\_value and contains the following fields:

Attribute	MySQL Type	Oracle Type	Description
BUSINESS_VALUE_KEY	INTEGER	INTEGER	Primary key
BUSINESS_VALUE_RANGE_5	VARCHAR(32)	VARCHAR2(32)	Values in the business value granularity of 5; that is 1-5, 6-10 and so on
BUSINESS_VALUE_RANGE_10	VARCHAR(32)	VARCHAR2(32)	Values in the business value granularity of 10; that is 1-10, 11-20 and so on
BUSINESS_VALUE_RANGE_50	VARCHAR(32)	VARCHAR2(32)	Values in the business value granularity of 50; that is 1-50, 51-100 and so on
BUSINESS_VALUE_RANGE_100	VARCHAR(32)	VARCHAR2(32)	Values in the business value granularity of 100; that is 1-100, 101-200 and so on
BUSINESS_VALUE_RANGE_500	VARCHAR(32)	VARCHAR2(32)	Values in the business value granularity of 500; that is 1-500, 501-1000 and so on
BUSINESS_VALUE_RANGE_1000	VARCHAR(32)	VARCHAR2(32)	Values in the business value granularity of 1000; that is 1-1000, 1001-2000 and so on

## Agent Dimension

Populated from task information, the agent dimension contains agents captured from the source system. This is a core iWD attribute. The table name is agent and contains the following fields:

Attribute	MySQL Type	Oracle Type	Description

Attribute	MySQL Type	Oracle Type	Description
AGENT_KEY	INTEGER	INTEGER	Primary key
AGENT_ID	VARCHAR(255)	VARCHAR2(255)	The source system agent ID
CREATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that created this record
UPDATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that updated this record

## **Rule Dimension**

Populated from the iWD Manager configuration, the rule dimension contains information on rules. The table name is rule and contains the following fields:

Attribute	MySQL Type	Oracle Type	Description
RULE_KEY	INTEGER	INTEGER	Primary key
RULE_CONFIG_ID	INTEGER	INTEGER	iWD Manager ID for the rule
RULE_CONFIG_EVENT_ID	INTEGER	INTEGER	ID to the Event that created/updated the rule record
RULE_NAME	VARCHAR(255)	VARCHAR2(255)	Descriptive name of the rule
TENANT_KEY	INTEGER	INTEGER	Tenant the rule is associated with
SOLUTION_KEY	INTEGER	INTEGER	Solution the rule is associated with
CONTRACT_KEY	INTEGER	INTEGER	Contract the rule is associated with
PROCESS_KEY	INTEGER	INTEGER	Process the rule is associated with
CREATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that created this record
UPDATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that updated this record
VALID_FROM_DATE_KEY	INTEGER	INTEGER	Date key for the rule attribute "valid from"
VALID_FROM_TIME_KEY	INTEGER	INTEGER	Time key for the rule attribute "valid from"
VALID_TO_DATE_KEY	INTEGER	INTEGER	Date key for the rule attribute "valid to"
VALID_TO_TIME_KEY	INTEGER	INTEGER	Time key for the rule attribute "valid to"
VALID_FROM	DATETIME	TIMESTAMP	For the version of the record, the date that it is valid from
VALID_TO	DATETIME	TIMESTAMP	For the version of the record, the date that it is valid to
VERSION	INTEGER	INTEGER	Version of the record
RULE_RUNTIME_ID	VARCHAR(255)	VARCHAR2(255)	iWD Manager runtime ID of the rule

## **Customer Dimension**

Tasks are typically associated with a customer. The customer dimension holds the unique identifier - either customer ID or account ID - and is populated from task information. It is an extended iWD attribute. The table name is customer and contains the following fields:

Attribute	MySQL Type	Oracle Type	Description
CUSTOMER_KEY	INTEGER	INTEGER	Primary key
CUSTOMER_ID	VARCHAR(64)	VARCHAR2(64)	Unique ID for the Customer - provided by source system
CREATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that created this record
UPDATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that updated this record

# **Customer Segment Dimension**

Customer segment is an extended iWD attribute to describe a customer further and can be set by the source system that is submitting the task. A segment oftentimes represents the value of the client to the enterprise – for example, gold, silver or bronze. The table name is customer\_segment and contains the following fields:

Attribute	MySQL Type	Oracle Type	Description
CUSTOMER_SEGMENT_KEY	INTEGER	INTEGER	Primary key
CUSTOMER_SEGMENT	VARCHAR(64)	VARCHAR2(64)	Name of the customer_segment
CREATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that created this record
UPDATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that updated this record

#### **Product Dimension**

In some cases, a task may be associated with a specific product - for example, an order for a widget – in which widget is the product. The dimension includes product type and subtype (North American widget versus European widget) and is an extended attribute that can be set by the source system. The table name is product and contains the following fields:

Attribute	MySQL Type	Oracle Type	Description
PRODUCT_KEY	INTEGER	INTEGER	Primary key
PRODUCT_TYPE	VARCHAR(64)	VARCHAR2(64)	Type of product
PRODUCT_SUBTYPE	VARCHAR(64)	VARCHAR2(64)	Subtype of product
CREATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that created this record
UPDATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that updated this record

## Source Process Dimension

Tasks may be associated with a larger process - say, in a workflow system. As an extended attribute, the source process dimension includes a process type and subtype, and can be set by the source system. The table name is source\_process and contains the following fields:

Attribute	MySQL Type	Oracle Type	Description
SOURCE_PROCESS_KEY	INTEGER	INTEGER	Primary key
SOURCE_PROCESS_TYPE	VARCHAR(64)	VARCHAR2(64)	Name of the source system process, for example: Order
SOURCE_PROCESS_SUBTYPE	VARCHAR(64)	VARCHAR2(64)	Subtype of the process, for example: Activation
CREATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that created this record
UPDATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that updated this record

# Source Tenant Dimension

In cases in which the source system is part of a multi-tenant system, the source\_process and source\_product values might not be unique across tenants. The source tenant dimension provides the ability to define the source of the task further. As

Attribute	MySQL Type	Oracle Type	Description
SOURCE_TENANT_KEY	INTEGER	INTEGER	Primary key
SOURCE_TENANT	VARCHAR(64)	VARCHAR2(64)	Name of the tenant from the source system.
CREATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that created this record
UPDATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that update this record

an extended attribute, source tenant can be populated by the source system that is submitting the task. The table name is source\_tenant and contains the following fields:

#### **Result Code Dimension**

The result code dimension is a value that can be set on the completion of a task by the agent. For example, a result code might be set through the agent softphone as a wrap code. The result code dimension is populated from task information and is a iWD extended attribute. The table name is result\_code and contains the following fields:

Attribute	MySQL Type	Oracle Type	Description
RESULT_CODE_KEY	INTEGER	INTEGER	Primary key
RESULT_CODE	VARCHAR(64)	VARCHAR2(64)	Name of the result_code
CREATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that created this record
UPDATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that updated this record

#### Task Event Type Dimension

The task event type dimension is a static dimension that has the various iWD/Task event types. The table name is task\_event\_type and contains the following fields:

Attribute	MySQL Type	Oracle Type	Description
TASK_EVENT_TYPE_KEY	INTEGER	INTEGER	Primary key
TASK_EVENT_TYPE	VARCHAR(64)	VARCHAR2(64)	The iWD Task event type name; for example, Cancel, Held, Distribute, Assign, Abandon.

## Age Dimension

The age dimension is a static dimension that has age ranges to define task age. The table name is age and contains the following fields:

Attribute	MySQL Type	Oracle Type	Description
AGE_KEY	INTEGER	INTEGER	Primary key
AGE_MINUTES	INTEGER	INTEGER	Age in minutes at the beginning of interval
AGE_RANGE_15MIN	VARCHAR(64)	VARCHAR2(64)	15-minute range (0-15 minutes, 15 – 30 minutes,)
AGE_RANGE_1HOUR	VARCHAR(64)	VARCHAR2(64)	1-hour range (0 - 1 hour, 1 – 2 hours,)
AGE_RANGE_4HOUR	VARCHAR(64)	VARCHAR2(64)	4-hour range (0-4 hours, 4 – 8 hours,)
AGE_RANGE_8HOUR	VARCHAR(64)	VARCHAR2(64)	8-hour range (0-8 hours, 8 – 16 hours,)
AGE_RANGE_1DAY	VARCHAR(64)	VARCHAR2(64)	Days (0-1 day, 1–2 days,)
AGE_RANGE_WEEK	VARCHAR(64)	VARCHAR2(64)	Weeks (0-1 weeks, 1-2weeks,)

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### **Custom Data Dimension**

Each row describes a distinct combination of the custom attributes of a task. Each custom attribute is represented by a string value. The table name is custom\_dim and contains the following fields:

Attribute	MySQL Type	Oracle Type	Description
CUSTOM_DIM_KEY	INTEGER	INTEGER	Key to customer dimension table
CUSTOM_DIM_ATTRIBUTE1	VARCHAR(255)	VARCHAR2(255)	
CUSTOM_DIM_ATTRIBUTE2	VARCHAR(255)	VARCHAR2(255)	
CUSTOM_DIM_ATTRIBUTE3	VARCHAR(255)	VARCHAR2(255)	
CUSTOM_DIM_ATTRIBUTE4	VARCHAR(128)	VARCHAR2(128)	
CUSTOM_DIM_ATTRIBUTE5	VARCHAR(128)	VARCHAR2(128)	
CREATED_ETL_AUDIT_KEY	INTEGER	INTEGER	
UPDATED_ETK_AUDIT_KEY	INTEGER	INTEGER	

## **Metric Dimension**

Metrics are a value that can be associated with a contract or process and, optionally, a distribution point. Metrics are set in GLT and are used to associate a value for evaluation against various attributes for reporting purposes (that is, "Cost per Task" set to \$0.50). The table name is metric and contains the following fields:

Attribute	MySQL Type	Oracle Type	Description
METRIC_KEY	INTEGER	INTEGER	Primary key.
METRIC_CONFIG_ID	INTEGER	INTEGER	iWD Manager ID for the metric.
METRIC_CONFIG_EVENT_ID	INTEGER	INTEGER	Event that created/updated the metric record.
METRIC_NAME	VARCHAR(255)	VARCHAR2(255)	Name of the metric as set in iWD.
METRIC_DESCRIPTION	VARCHAR(255)	VARCHAR2(255)	Description of what the metric represents as set in iWD.
METRIC_VALUE	VARCHAR(255)	VARCHAR2(255)	Metric value. It is incumbent on the report writer to do any type conversion on this field.
TENANT_KEY	INTEGER	INTEGER	Tenant the metric is associated with.
SOLUTION_KEY	INTEGER	INTEGER	Solution the metric is associated with.
CONTRACT_KEY	INTEGER	INTEGER	Contract the metric is associated with.
PROCESS_KEY	INTEGER	INTEGER	Process the metric is associated with.
DISTRIBUTION_POINT_KEY	INTEGER	INTEGER	Distribution point the metric is associated with.
CREATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that created this record.
UPDATED_ETL_AUDIT_KEY	INTEGER	INTEGER	etl_audit key that updated this record.
VALID_FROM	DATETIME	TIMESTAMP	For the version of the record, the date that it is valid from.
VALID_TO	DATETIME	TIMESTAMP	For the version of the record, the date that it is valid to.
VERSION	INTEGER	INTEGER	Version of the record.

## **Queue Dimension**

The queue dimension describes queues and workbins in the distribution system. Table name is queue and contains the following fields:

Attribute	MySQL Type	Oracle Type	РК	Description
QUEUE_KEY	INTEGER	INTEGER	Х	Primary key.
QUEUE_TYPE	VARCHAR(255)	VARCHAR2(255)		Type of the queue. For Genesys, the following types are supported: InteractionQueue. AgentWorkbin. AgentGroupWorkbin. PlaceWorkbin. PlaceGroupWorkbin.
QUEUE_NAME	VARCHAR(255)	VARCHAR2(255)		Name of the queue.
CREATED_ETL_AUDIT_KEY	INTEGER	INTEGER		etl_audit key that created this record.
UPDATED_ETL_AUDIT_KEY	INTEGER	INTEGER		etl_audit key that updated this record.

# **Queue Target Dimension**

The queue target dimension is agent, agent group, place, or place group to which the task is assigned in workbin. Table name is queue\_target and contains the following fields:

Attribute	MySQL Type	Oracle Type	PK	Description
QUEUE_TARGET_KEY	INTEGER	INTEGER	Х	Primary key.
QUEUE_TYPE	VARCHAR(255)	VARCHAR2(255)		Type of the queue. For Genesys, the following types are supported: InteractionQueue. AgentWorkbin. AgentGroupWorkbin. PlaceWorkbin. PlaceGroupWorkbin.
QUEUE_TARGET_NAME	VARCHAR(255)	VARCHAR2(255)		Name of the agent, agent group, place or place group.
CREATED_ETL_AUDIT_KEY	INTEGER	INTEGER		etl_audit key that created this record.
UPDATED_ETL_AUDIT_KEY	INTEGER	INTEGER		etl_audit key that updated this record.

## **Status Dimension**

The status dimension describes iWD task status. The table name is status and contains the following fields:

Attribute	MySQL Type	Oracle Type	РК	Description
STATUS_KEY	INTEGER	INTEGER	Х	Primary key
STATUS_NAME	VARCHAR(16)	VARCHAR2(16)		Status name
IS_FINAL	INTEGER	INTEGER		Is set when task status = Completed, Canceled, or Rejected
IS_HELD	INTEGER	INTEGER		Is set when task status = NewHeld or Held
UPDATED_ETL_AUDIT_KEY	INTEGER	INTEGER		etl_audit key that updated this record

## **Skill Dimension**

Skill dimension describes Genesys agent skills.

Attribute	Mysql Type	Oracle Type	PK	Description
SKILL_KEY	INTEGER	INTEGER	Х	Primary key
SKILL_ID	VARCHAR(255)	VARCHAR2(255)		Skill ID
CREATED_ETL_AUDIT_KEY	INTEGER	INTEGER		ETL_AUDIT key that created this record
UPDATED_ETL_AUDIT_KEY	INTEGER	INTEGER		ETL_AUDIT key that updated this record

# **System Tables**

## ETL\_AUDIT

The ETL\_AUDIT table records each executed iWD Data Mart ETL job. It contains the following values:

Attribute	Mysql Type	Oracle Type	PK	Description
ETL_AUDIT_KEY	INTEGER	INTEGER	Х	Primary key.
ETL_AUDIT_TIME	DATETIME	TIMESTAMP		Date/time when the job has finished.
BATCH_ID	INTEGER	INTEGER		Batch number, for jobs that processes data in batches (such as Load_Intraday). Each batch will have it's own ETL_AUDIT record.
DATA_SOURCE_TYPE	VARCHAR(16)	VARCHAR2(16)		Primary source of the job data, either "config", "task", or "datamart".
DATA_SOURCE_NAME	VARCHAR(255)	VARCHAR2(255)		Database ID (equals database JDBC URL).
PROCESS_NAME	VARCHAR(255)	VARCHAR2(255)		Process that is processing the records (that is, "load_config_gtl_dm").
FIRST_EXTRACTED_EVENT_ID	INTEGER	INTEGER		The event_id that starts the range of event_ids processed
LAST_EXTRACTED_EVENT_ID	INTEGER	INTEGER		The event_id that ends the range of event_ids processed
BATCH_LAST_EVENT_ID	INTEGER	INTEGER		ID of the last event in the batch. Used to set the starting point for next batch.
LAST_INTERVAL_DATE_KEY	INTEGER	INTEGER		Last date interval processed by the aggregate ETL scripts.
LAST_INTERVAL_TIME_KEY	INTEGER	INTEGER		Last time interval processed by the aggregate ETL scripts.

# ETL\_CUSTOM\_MAP

The ETL\_CUSTOM\_MAP table is used to configure mapping of task custom attributes to attributes in Task and Task Work fact, as well as the custom data dimension. It contains the following values:

Attribute	MySQL Type	Oracle Type	PK	Description
ETL_CUSTOM_MAP_KEY	INTEGER	INTEGER	Х	Unique mapping record key.
SOLUTION_KEY	INTEGER	INTEGER		Key to the solution for which this mapping is valid. If NULL, then applies to all.

Attribute	MySQL Type	Oracle Type	РК	Description
PROCESS_KEY	INTEGER	INTEGER		For which process this mapping is valid, if null then applies to all processes.
CHANNEL_KEY	INTEGER	INTEGER		For which media channel this mapping is valid, if null then applies to all processes.
CATEGORY_KEY	INTEGER	INTEGER		For which category this mapping is valid, if null then applies to all categories.
KEY_NAME	VARCHAR(255)	VARCHAR2(255)		Custom attribute key name in iWD runtime.
IS_DIMENSION	INTEGER	INTEGER		Whether this attribute should be mapped to Custom Data dimension table rather than fact table.
CUSTOM_ATTRIBUTE_INDEX	INTEGER	INTEGER		Custom attribute index, 1-10 if is_dimension is false or 1-5 otherwise.

# ETL\_KETTLE\_LOG

The ETL\_KETTLE\_LOG table is used to store technical ETL Job information. It contains the following values:

Attribute	MySQL Type	Oracle Type	PK	Description
ID_JOB	INTEGER	INTEGER	Х	ID of the ETL Job - assigned by Kettle.
JOBNAME	VARCHAR(50)	VARCHAR2(50)		Name of Job - as entered in Kettle.
STATUS	VARCHAR(15)	VARCHAR2(15)		ETL Job Status; for example, "End".
LINES_READ	INTEGER	INTEGER		Kettle value of lines read.
LINES_WRITTEN	INTEGER	INTEGER		Kettle value of lines written.
LINES_UPDATED	INTEGER	INTEGER		Kettle value of lines updated.
LINES_INPUT	INTEGER	INTEGER		Kettle value of lines input.
LINES_OUTPUT	INTEGER	INTEGER		Kettle value of lines output.
ERRORS	INTEGER	INTEGER		Total number of errors in the Job. See Log_Field for details.
STARTDATE	DATETIME	TIMESTAMP		Job start date.
ENDDATE	DATETIME	TIMESTAMP		End date of the Job.
LOGDATE	DATETIME	TIMESTAMP		Log date.
DEPDATE	DATETIME	TIMESTAMP		
REPLAYDATE	DATETIME	TIMESTAMP		
LOG_FIELD	TEXT	CLOB		Log file for the Job

#### **iWD Data Mart Views**

iWD Data Mart provides a number of read-only views of the dimensions, facts and aggregates that are in the iWD Data Mart. iWD Data Mart contains the following views:

- Dimension
- Intraday fact
- Historical fact
- Blended fact (union of intraday and historical facts)
- Intraday aggregate (hour level)
- Historical aggregate (hour, day, week, month, quarter, year levels)
- Blended aggregate (union of intraday and historical hour aggregates)

Views in iWD Data Mart isolate business users and reporting analysts who create reports by using iWD Data Mart data, from changes that might occur in the underlying iWD Data Mart tables.

# **Chapter 3: ETL Overview**

This chapter explains the process by which information is extracted from iWD runtime and configuration databases, transformed, and loaded into the various iWD Data Mart star schemas.

The information in this chapter is organized into the following topics:

- What Is ETL?
- iWD Data Mart ETL Jobs
- <u>Scheduling ETL Jobs</u>

#### What Is ETL?

The data in iWD Data Mart is made available through a process called Extract, Transform and Load - or ETL, for short. The system that is used to create, configure, and execute the ETL process is Kettle, which is part of the Pentaho reporting suite. Kettle top-level objects are Jobs. Jobs are a sequence of steps that are executed according to success/failure criteria. One of the steps that is used by iWD Reporting is transform steps.

#### **iWD Data Mart ETL Jobs**

The following are preconfigured ETL jobs that are responsible for creating and populating iWD Data Mart and calculating the various aggregates and measures that are described in Chapter 2 of this guide. The following are the list of ETL Jobs:

- Initialize iWD Data Mart
- Load Configuration
- Load Intraday
- <u>Aggregate Intraday</u>
- <u>Aggregate Statistics</u>
- Load Historical
- Aggregate Historical
- <u>Maintain iWD Data Mart</u>

#### Initialize iWD Data Mart

Job Name:GTL\_DM\_InitializeFunction:Initializes the necessary data structures and populates static<br/>dimensions, such as Age DimensionSchedule:Runs once

#### Load Configuration

Job Name: GTL\_DM\_load\_config

Function:	Loads updates from iWD config tables into dimension tables
Schedule:	Configurable through Service Properties; typically runs on a 15-minute
	cycle, but not more frequently than a 15-minute cycle

#### Load Intraday

Job Name:	GTL_DM_load_intraday
Function:	Loads updates from iWD runtime tables into core fact tables
Schedule:	Configurable through Service Properties in iWD Manager, but is
	recommended it be scheduled to run after Load Configuration Job ends
	through Job Dependency scheduling option.

# Aggregate Intraday

Job Name:	GTL_DM_aggregate_intraday
Function:	Aggregates data that previously was loaded into fact tables by the Load
	Intraday Job into the Aggregation tables
Schedule:	Recommended to schedule immediately after Load Intraday has
	completed – typically, running every 15 minutes. The frequency of this
	aggregate job does not have any bearing on the 15-minute aggregate
	that is being populated.

## **Aggregate Statistics**

Job Name:	GTL_DM_aggregate_stats
Function:	Generate extended statistics by executing statistics plug-ins
Schedule:	Recommended to schedule immediately after Aggregate Intraday since
	most of the statistics plug-ins are using aggregated facts.

# Load Historical

Job Name:	GTL_DM_load_historical
Function:	Moves data from intraday fact tables into historical fact tables
Schedule:	Runs daily through schedule that is defined in Service Properties.

## Aggregate Historical

Job Name:	GTL_DM_aggregate_historical
Function:	Aggregates data from historical fact tables into 15-min, hour, day, and
	month aggregation tables
Schedule:	Runs once a day, after Load Historical

# Maintain iWD

Job Name:	GTL_DM_maintain
Function:	Cleanses historical tables (removes expired facts, based on rules that
	are defined on the ETL Service property in iWD Manager).
Schedule:	Runs once a day, after Aggregate Historical.

#### **Scheduling ETL Jobs**

ETL Jobs can be scheduled to run on a recurring basis by using a CRON expression, to run manually, or to run after the successful completion of a dependent service. For more information on the configuration of scheduling ETL jobs, please refer to the *iWD User Guide* and *iWD Deployment and Configuration Guide*.