

# Kofax TotalAgility

## Reporting Tables

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# Preface

This guide describes the Dimension and Fact tables of the Kofax Reporting data warehouse. These tables store information related to CEBPM (Capture Enabled Business Process Management) activities of Kofax TotalAgility.

Users with database role `kfx_advanced_reader` only have the read access while users with database role `kfx_etl` have the write access to these tables. All date and time values in the database are based on the UTC time zone.

**Note** These are the only database tables for which direct read-only access is permitted. Find the list of Reporting tables in the following location:

```
<Kofax TotalAgility Installation Folder>\Reporting  
\KofaxTotalAgilityReportingTables_EN.pdf
```

## Related documentation

The product documentation set for Kofax TotalAgility 7.4.0 is available at the following location.

[https://docshield.kofax.com/Portal/Products/en\\_US/740-uc0n6j0c5s/KTA.htm](https://docshield.kofax.com/Portal/Products/en_US/740-uc0n6j0c5s/KTA.htm)

In addition to this guide, the documentation set includes the following items:

- *Kofax TotalAgility Prerequisites Guide*: Provides system requirements for installing TotalAgility, instructions for running the prerequisite utility, and a software checklist for various installation types.
- *Kofax TotalAgility Installation Guide*: Describes how to install and configure TotalAgility.
- *Kofax TotalAgility Integration Server Installation Guide*: Describes how to install Kofax Integration Server and integrate it with other products.
- *Kofax TotalAgility On-Premise Multi-Tenancy Installation Guide*: Describes how to install and configure On- Premise Multi-Tenant system.
- *Kofax TotalAgility Configuration Utility Guide*: Explains how to use the Configuration Utility to update settings across various configuration files for different types of installation and deployment.
- *Kofax TotalAgility Administrator's Guide*: Provides information to the administrator on configuring and maintaining a TotalAgility installation.
- *Kofax TotalAgility Architecture Guide*: Provides an overview of the TotalAgility architecture, covering various deployments for on-premise, on-premise multi-tenancy and Azure environments.
- *Kofax TotalAgility Best Practices Guide*: Describes the best practices you must follow when using TotalAgility to improve performance, cost, maintenance, availability and security.
- *Kofax TotalAgility Features Guide*: Provides an overview of the TotalAgility features.
- *Kofax TotalAgility Migration Guide*: Provides information on TotalAgility upgrades from different versions and post upgrade configuration.

- *Kofax TotalAgility Help*: Provides details about using TotalAgility to design business jobs and cases, assign resources, create forms, integrate with external applications, and more. Access the help from the TotalAgility application by clicking the Help button.
- *Kofax TotalAgility Workspace Help*: Describes how to use the Workspace to manage activities, jobs, and resources. Access the help from the TotalAgility Workspace by clicking the Help button.
- *Kofax TotalAgility On-Premise Multi-Tenant System Help*: Describes how to create and manage tenants using the TotalAgility On-Premise Multi-Tenant system.
- *Kofax TotalAgility Web Capture Control Help*: Provides details on using a Web Capture control in creating multi-page documents, creating a new document in a new folder, deleting pages that have been incorrectly scanned, and more; also, describes the buttons available in a Web Capture control toolbar.
- *Kofax Analytics for TotalAgility Product Features Guide*: Provides an overview of the dashboards that help you track data through the workflow, analyze the effectiveness of the processes and resources, and address business problems.
- *Kofax TotalAgility Tables*: Describes the Kofax TotalAgility tables and fields used by Kofax Analytics for TotalAgility.
- *Migration From Kofax Products Guide*: Provides information about migrating TotalAgility files and Kofax Transformation Modules projects to TotalAgility.

## Training

Kofax offers both classroom and computer-based training that will help you make the most of your Kofax TotalAgility solution. Visit the Kofax website at [www.kofax.com](http://www.kofax.com) for complete details about the available training options and schedules.

## Get help for Kofax products

Kofax regularly updates the Kofax Support site with the latest information about Kofax products.

To access some resources, you must have a valid Support Agreement with an authorized Kofax Reseller/ Partner or with Kofax directly.

Use the tools that Kofax provides for researching and identifying issues. For example, use the Kofax Support site to search for answers about messages, keywords, and product issues. To access the Kofax Support page, go to [www.kofax.com](http://www.kofax.com).

The Kofax Support page provides:

- Product information and release news  
Click a product family, select a product, and select a version number.
- Downloadable product documentation  
Click a product family, select a product, and click **Documentation**.
- Access to product knowledge bases  
Click **Knowledge Base**.
- Access to the Kofax Customer Portal (for eligible customers)

Click **Account Management** and log in.

To optimize your use of the portal, go to the Kofax Customer Portal login page and click the link to open the *Guide to the Kofax Support Portal*. This guide describes how to access the support site, what to do before contacting the support team, how to open a new case or view an open case, and what information to collect before opening a case.

- Access to support tools  
Click **Tools** and select the tool to use.
- Information about the support commitment for Kofax products  
Click **Support Details** and select **Kofax Support Commitment**.

Use these tools to find answers to questions that you have, to learn about new functionality, and to research possible solutions to current issues.

## Chapter 1

# Dimension tables

Tables with names ending in `_dim` are dimension tables. These tables are a kind of dictionaries that store information about workstations involved in document processing. For example, the `Doc_dim` table stores all necessary reporting information related to documents processed during CEBPM activities.

Dimension tables hold categories such as date, time, user, station, and more.




The Kofax Reporting ETL (Extract/Transform/Load) agent provides content to most of the tables, whereas some tables have predefined content such as document classification status, time, and date.

## Dimension tables with predefined content

### Table `date_dim`

This table holds calendar date values. Most fact tables have one or more foreign keys referencing this table.




The database creation script populates this table with date values from 2009-01-01 to 2015-12-31.

Icon	Name	Data Type	Max Length (Bytes)	Description
	<code>date_key</code>	<code>int</code>	4	Year * 10000 + Month * 100 + Day Example: 2015000222 for February 22, 2015
	<code>full_date</code>	<code>datetime</code>	8	
	<code>calendar_year</code>	<code>int</code>	4	Example: 2015
	<code>month_number_of_year</code>	<code>int</code>	4	1-12
	<code>ym</code>	<code>nvarchar(6)</code>	12	Year and month in format of YYYYMM
	<code>day_number_of_month</code>	<code>int</code>	4	1-31
	<code>etl_job_key</code>	<code>int</code>	4	Used internally

### Table `time_dim`




This table holds the time-of-day values with a granularity of 1 second. The database creation script populates this table. Most fact tables reference this table.



Icon	Name	Data Type	Max Length (Bytes)	Description
	time_key	int	4	Hours * 10000 + Minutes * 100 + Seconds Example: 12003515 for 12 hours, 35 minutes and 15 seconds
	hour_of_day	int	4	0 to 23
	min_of_hour	int	4	0 to 59
	second_of_min	int	4	0 to 59
	hh_mm_ss	nvarchar(8)	16	Time in format of HH:MM:SS
	full_time	datetime	8	SQL time
	etl_job_key	int	4	Used internally



## Table field\_recog\_status\_dim

This table holds possible Kofax Transformation Module (KTM) field recognition status values. The field fact table and various Transformation-specific views use this table, which is populated by the database creation script.

Icon	Name	Data Type	Max Length (Bytes)	Description
	field_recog_status_key	int	4	Fixed key values: 1 = valid and correct 2 = valid and incorrect 3 = rejected and correct 4 = rejected and incorrect 5 = unknown (no validation data yet)
	field_recog_status_name	nvarchar(255)	510	Descriptive text ("valid corr" and the rest)
	valid_corr_num	int	4	Used like a bit field: 1 = field is valid and correct else 0
	valid_incorr_num	int	4	Used like a bit field: 1 = field is valid and incorrect else 0
	invalid_corr_num	int	4	Used like a bit field: 1 = field is rejected and correct else 0
	invalid_incorr_num	int	4	Used like a bit field: 1 = field is rejected and incorrect else 0
	etl_job_key	int	4	Used internally

## Table object\_action\_dim

This table holds descriptive text for audit actions related to batches, documents and pages. The database creation script populates this table. If application developers define new audit actions, they must add records for those actions to this table.


Icon	Name	Data Type	Max Length (Bytes)	Description
	object_action_key	int	4	Fixed keys for predefined actions
	object_action_name	nvarchar(32)	64	Short descriptive name, displayed in audit views
	object_action_descr	nvarchar(255)	510	Not used currently, always empty
	etl_job_key	int	4	Used internally

## Table admin\_context\_dim

This table holds context descriptions for admin actions. The database creation script populates the table with five predefined contexts (Generic, BatchClass, User, Customization, Kfs) and one generic context (Not set).

The admin audit fact table and the admin audit view refer to this dimension.

Application developers can define and use new context values, and add records to this table.


Icon	Name	Data Type	Max Length (Bytes)	Description
	admin_context_key	int	4	Unique key
	context_text	nvarchar(255)	510	Context description

## Table admin\_text\_dim

This table holds possible types of admin actions. The database creation script adds records for predefined action types such as 'CreateObject' and 'CopyObject'.

The admin audit fact table and the admin audit view refer to this dimension.

Application developers can define and use new values, and add records to this table.


Icon	Name	Data Type	Max Length (Bytes)	Description
	admin_text_key	int	4	Unique key
	action_text	nvarchar(255)	510	Action description

## Table admin\_type\_dim

This table holds possible types of admin actions. The database creation script adds records for predefined action types such as 'CreateObject' and 'CopyObject'.

The admin audit fact table and the admin audit view refer to this dimension.

Application developers can define and use new values, and add records to this table.


Icon	Name	Data Type	Max Length (Bytes)	Description
	admin_type_key	int	4	Unique key
	type_text	nvarchar(255)	510	Description
	param_num	int	4	Number of parameters for audit records

## Table admin\_param\_dim

This table holds parameter types that can be part of admin audit records. The database creation script adds records for predefined parameter types such as 'BatchClass', 'User' and 'Device'.

The admin audit fact table and the admin audit view refer to this dimension.



Application developers can define and use new values, and add records to this table.

Icon	Name	Data Type	Max Length (Bytes)	Description
	admin_param_key	int	4	Unique key IAdminParam.ParamType
	param_text	nvarchar(255)	510	Parameter description

## Table product\_dim

This table holds product IDs for reporting integrated products. The database creation script adds records for Kofax Capture (KC), Kofax Transformation Module (KTM), Kofax Front Server (KFS) and Capture Enabled Business Process Management (CEBPM) products. Some other tables (for batches, batch classes, modules, document classes, and more) reference this table to designate which product has generated the given reporting record.

If a new Kofax product is integrated with Reporting, this table must be populated with a corresponding record.




Icon	Name	Data Type	Max Length (Bytes)	Description
	product_key	int	4	Unique product ID
	product_text	nvarchar(32)	64	Short product name that must be unique. Examples: KC, KFS and CEBPM.
	product_descr	nvarchar(255)	510	The product display name that can be shown to the users. Examples: Kofax Capture and Kofax Transformation Module.

## Dimension tables maintained by ETL agent

All dimension tables in this section hold an additional record with primary key of -1. Foreign keys with a value of -1 indicate that this information is not yet known. For example, `export_date_key = -1` if a batch is not yet exported.




### Table `admin_value_dim`

The ETL agent adds a record to this table when it finds a new parameter value or parameter version in an admin action event.

Icon	Name	Data Type	Max Length (Bytes)	Description
	<code>admin_value_key</code>	bigint	8	Unique key
	<code>admin_value</code>	nvarchar(255)	510	Value IAdminParam.ParamValue OR IAdminParam.ParamVersion
	<code>etl_job_key</code>	int	4	Used internally

### Table `batch_class_dim`


The ETL agent populates this table when it finds new information about a batch class in a batch processing event (batch creation, batch session close, batch edit).



Icon	Name	Data Type	Max Length (Bytes)	Description
	<code>batch_class_key</code>	int	4	Unique key
	<code>batch_class</code>	nvarchar(32)	64	Batch class name IBatchInfo.Class
	<code>batch_class_descr</code>	nvarchar(255)	510	Batch class description IBatchInfo.ClassDescription
	<code>product_key</code>	int	4	Foreign key to <code>product_dim</code>
	<code>dt_last_change</code>	datetime	8	Last changed date and time (used internally)
	<code>etl_job_key</code>	int	4	Used internally

### Table `station_dim`

This table holds information about KC (Kofax Capture) stations that provided information.




The natural key for this table is the combination of station name and site ID.

Icon	Name	Data Type	Max Length (Bytes)	Description
	<code>station_key</code>	int	4	Unique key

Icon	Name	Data Type	Max Length (Bytes)	Description
	station_name	nvarchar(255)	510	Station name <code>ISessionInfo.Station</code>
	site_id	int	4	Site ID <code>ISessionInfo.SiteId</code>
	station_name_site_id	nvarchar(300)	600	Natural key (used internally)
	site_name	nvarchar(255)	510	Site name <code>ISessionInfo.SiteName</code>
	dt_last_change	datetime	8	Last changed date and time (used internally)
	etl_job_key	int	4	Used internally


## Table mod\_dim



This table holds information about modules that provided information. It also holds entries for export connectors that were used for exporting documents.

Icon	Name	Data Type	Max Length (Bytes)	Description
	mod_key	int	4	Unique key
	mod_type	int	4	Module type 0 = normal module 2 = export connector
	mod_name	nvarchar(255)	510	Module name For normal modules: <code>ISessionInfo.ModuleName</code> For export connectors: <code>ExportConnector</code> parameter in API call <code>ExportDocument</code>
	mod_id	nvarchar(255)	510	Unique module ID For normal modules: <code>ISessionInfo.ModuleId</code> For export connectors: <code>ExportConnector</code> parameter in API call <code>ExportDocument</code>
	mod_id_type	nvarchar(300)	600	Natural key
	product_key	int	4	Foreign key to <code>product_dim</code>
	dt_last_change	datetime	8	Last change timestamp (used internally)
	etl_job_key	int	4	Used internally

## Table user\_dim




This table holds user information provided in batch sessions or admin sessions.

Icon	Name	Data Type	Max Length (Bytes)	Description
	user_key	int	4	Unique key

Icon	Name	Data Type	Max Length (Bytes)	Description
	user_logon_name	nvarchar(50)	100	User ID (natural key) From ISessionInfo.UserId
	user_fullname	nvarchar(80)	160	User full name From ISessionInfo.UserName
	dt_last_change	datetime	8	Last changed timestamp (used internally)
	user_type	int	4	Foreign key user_type_dim
	etl_job_key	int	4	Used internally
	logon_name_type	nvarchar(300)	600	Used internally




## Table machine\_dim

This table holds the distinguished computer names of stations that provided information.

Icon	Name	Data Type	Max Length (Bytes)	Description
	machine_key	int	4	Unique key
	machine_name	nvarchar(255)	510	Computer name (including domain)
	etl_job_key	int	4	Used internally


## Table doc\_class\_dim



The ETL agent adds a record to this table when it encounters a new document class name in a batch close event.

Icon	Name	Data Type	Max Length (Bytes)	Description
	doc_class_key	int	4	Unique key
	doc_class	varchar(255)	510	Document class name IDocument.Class
	product_key	int	4	Foreign key to product_dim
	etl_job_key	int	4	Used internally

## Table group\_value\_dim




The ETL agent adds a record to this table when it encounters a new KTM group value in a batch close event.

Icon	Name	Data Type	Max Length (Bytes)	Description
	group_value_key	int	4	Unique key

Icon	Name	Data Type	Max Length (Bytes)	Description
	group_value	varchar(255)	510	KTM group value IDocument.GroupValue
	etl_job_key	int	4	Used internally





## Table form\_type\_dim

The ETL agent adds a record to this table when it encounters a new form type name in a batch close event.

Icon	Name	Data Type	Max Length (Bytes)	Description
	form_type_key	int	4	Unique key
	form_type	nvarchar(255)	510	Form type IDocument.FormType
	product_key	int	4	Foreign key to product_dim
	etl_job_key	int	4	Used internally




## Table tsf\_class\_dim

The ETL agent adds a record to this table when it encounters a new KTM class name in a batch close event.

Icon	Name	Data Type	Max Length (Bytes)	Description
	tsf_class_key	int	4	Unique key
	tsf_class	nvarchar(255)	510	KTM class name IDocument.TransformationClass
	ta_document_type_id	nvarchar(255)	510	TotalAgility document type ID
	ta_document_group_name	nvarchar(255)	510	TotalAgility document type name
	ta_document_group_version	nvarchar(255)	510	TotalAgility document group version
	ta_document_group_id	nvarchar(255)	510	TotalAgility document group ID
	ta_document_group_cat_key	bigint	510	References the category for the document group.
	class_group_version	nvarchar(255)	510	Used internally
	product_key	int	4	Foreign key to product_dim
	dt_last_change	datetime		Time of the latest change for this record.
	etl_job_key	int	4	Used internally




## Table reject\_note\_dim

The ETL agent adds a record to this table when it encounters a new reject note text in a document reject or page reject event.

Icon	Name	Data Type	Max Length (Bytes)	Description
	reject_note_key	int	4	Unique key
	reject_note	nvarchar(255)	510	Reject note RejectNote parameter in the RejectDocument or RejectPage calls
	etl_job_key	int	4	Used internally

## Table field\_dim






This table holds all known index field and batch field names. The ETL agent updates this table when processing batch close events containing index field or batch field information.

Icon	Name	Data Type	Max Length (Bytes)	Description
	field_key	int	4	Unique key
	field_name	nvarchar(255)	510	Field name IField.Name or IBatchField.Name
	etl_job_key	int	4	Used internally

## Table batch\_dim



The ETL agent updates this table whenever new information about the batch arrives. This can be when the batch is created, a batch session is opened or closed, or during batch edit actions.

A time stamp on each action reported by the API guarantees for the latest information.

Icon	Name	Data Type	Max Length (Bytes)	Description
	batch_key	bigint	8	Internal unique key
	batch_name	nvarchar(255)	510	Batch name from IBatchInfo.Name
	batch_id	nvarchar(255)	510	Unique batch ID from IBatchInfo.Id
	product_key	int	4	Foreign key to product_dim
	create_date_key	int	4	Batch creation date Foreign key to date_dim
	create_time_key	int	4	Batch creation time of day Foreign key to time_dim
















Icon	Name	Data Type	Max Length (Bytes)	Description
	export_date_key	int	4	Batch export date when Export module closes batch with status Deleted. Foreign key to date_dim
	export_time_key	int	4	Batch export time of day Foreign key to time_dim
	delete_date_key	int	4	Batch delete date when a module closes batch with status Deleted. Foreign key to date_dim
	delete_time_key	int	4	Batch delete time of day Foreign key to time_dim
	last_proc_date_key	int	4	Last processing date Foreign key to date_dim
	last_proc_time_key	int	4	Last processing time of date Foreign key to time_dim
	create_station_key	int	4	Station that provided batch create information. Foreign key to station_dim
	create_user_key	int	4	User from batch create event. Foreign key to user_dim
	last_proc_station_key	int	4	Station that provided newest information about the batch. Foreign key to station_dim
	last_proc_user_key	int	4	User from last batch related information. Foreign key to user_dim
	last_proc_mod_key	int	4	Module from last batch related information. Foreign key to mod_dim
	dt_last_proc_datetime	datetime	8	Last processing date and time (used internally)
	next_mod_key	int	4	Not used and not populated
	batch_state	int	4	Batch status (from batch session close events)
	batch_class_key	int	4	Batch class Foreign key to batch_class_dim
	batch_priority	int	4	Batch priority from IBatchInfo.Priority
	batch_descr	nvarchar(255)	510	Batch description from IBatchInfo.Description
	is_exported	bit	1	1 if batch was exported







Icon	Name	Data Type	Max Length (Bytes)	Description
	is_deleted	bit	1	1 if batch was deleted
	etl_job_key	int	4	Used internally

## Table doc\_dim

This table holds the latest known status of each individual document. The ETL agent updates it when processing batch close events and document-related batch edit actions.







Icon	Name	Data Type	Max Length (Bytes)	Description
	doc_key	bigint	8	Unique key
	doc_id	nvarchar(255)	510	Natural key from <code>IDocument.Id</code> and document ID parameters in <code>IEdit</code> calls.
	original_doc_id	nvarchar(255)	510	If this document is a result of export from an external system (another Kofax product) the <code>original_doc_id</code> is set to ID of the document in that original system. This field may be used to track document history if the document life spans multiple products.
	initial_doc_class_key	int	4	Document class from classification session. Foreign key to <code>doc_class_dim</code>
	doc_class_key	int	4	Latest known document class <code>IDocument.Class</code> . Foreign key to <code>doc_class_dim</code>
	initial_tsf_class	int	4	Automatically recognized KTM class. <code>IDocument.TransformationClass</code> from classification session Foreign key to <code>tsf_class_dim</code>
	tsf_class	int	4	KTM class after document review. <code>IDocument.TransformationClass</code> from document review session. Foreign key to <code>tsf_class_dim</code>
	form_type_key	int	4	Last known form type <code>IDocument.FormType</code> . Foreign key to <code>form_type_dim</code>
	is_exported	bit	1	Set to true at export session close, if document was part of the completely exported batch.
	is_processing_completed	bit	1	Set to true if batch to which document belongs was marked as completed.













Icon	Name	Data Type	Max Length (Bytes)	Description
	is_aggr	bit	1	Used internally by ETL agent
	group_value_key	int	4	Last known KTM group value IDocument.GroupValue. Foreign key to group_value_dim
	create_date_key	int	4	Date when the document was created (via IEdit.CreateDocument, IEdit.SplitDocument). Foreign key to date_dim
	create_time_key	int	4	Time of date for document creation.
	dt_create_datetime	datetime	8	Used internally
	export_date_key	int	4	Date when the document was last exported (via IEdit.ExportDocument). Foreign key to date_dim
	export_time_key	int	4	Time of day when the document was last exported. Foreign key to time_dim
	last_proc_date_key	int	4	Date of last available document-related information. Foreign key to date_dim
	last_proc_time_key	int	4	Time of last available document-related information. Foreign key to time_dim
	dt_last_proc_datetime	datetime	8	Used internally
	last_proc_station_key	int	4	References the last station where this document was processed. Foreign key to station_dim
	last_proc_user_key	int	4	References the user the last user who processed this document. Foreign key to user_dim
	classified_date_key	int	4	Date from last classification session batch close event. Foreign key to date_dim
	classified_time_key	int	4	Time of day from last classification session batch close event. Foreign key to time_dim
	dt_last_class_datetime	datetime	8	Used internally


Icon	Name	Data Type	Max Length (Bytes)	Description
	reviewed_date_key	int	4	Date from the last KTM document review session batch close event. Foreign key to date_dim
	reviewed_time_key	int	4	Time from the last KTM document review session batch close event. Foreign key to time_dim
	dt_last_review_datetime	datetime	8	Used internally
	review_user_key	int	4	User from the last KTM document review session. Foreign key to user_dim
	product_key	int	4	Foreign key to product_dim
	etl_job_key	int	4	

## Table page\_dim

This table holds the latest known status of each individual page. The ETL agent updates it when processing batch close events and page-related batch edit actions.




Icon	Name	Data Type	Max Length (Bytes)	Description
	page_key	bigint	8	Unique key
	page_id	nvarchar(255)	510	Page ID (Natural key) From IDocument.Id and document ID parameters in IEdit calls.
	original_page_id	nvarchar(255)	510	If this page is a result of export from an external system (another Kofax product) the original_page_id is set to ID of the page in that original system. This field may be used to track page history if the page life spans multiple products.
	doc_key	bigint	8	Current owner document (-1 if not belonging to a document). Foreign key to doc_dim
	batch_key	bigint	8	Current owner batch (-1 if not belonging to a batch). Foreign key to batch_dim
	dt_last_proc_datetime	datetime	8	Used internally
	last_proc_date_key	int	4	Date when the page was last processed. Foreign key to date_dim

Icon	Name	Data Type	Max Length (Bytes)	Description
	last_proc_time_key	int	4	Time when the page was last processed. Foreign key to time_dim
	product_key	int	4	Foreign key to product_dim
	dt_create_datetime	datetime	8	Page creation date and time (First invocation of ScanPage or CopyDocument that indicates creation of this page.)
	create_date_key	int	4	Page creation date Foreign key to date_dim
	create_time_key	int	4	Page creation time Foreign key to time_dim
	initial_tsf_class_key	int	4	Automatically recognized KTM class IDocument.TransformationClass from classification session Foreign key to tsf_class_dim
	tsf_class_key	int	4	KTM class after document review IDocument.TransformationClass from document review session. Foreign key to tsf_class_dim
	classified_date_key	int	4	Date from last classification session batch close event. Foreign key to date_dim
	classified_time_key	int	4	Time of day from last classification session batch close event. Foreign key to time_dim
	dt_last_class_datetime	datetime	8	Used internally
	reviewed_date_key	int	4	Date from last KTM document review session batch close event. Foreign key to date_dim
	reviewed_time_key	int	4	Time from last KTM document review session batch close event. Foreign key to time_dim
	dt_last_review_datetime	datetime	8	Used internally
	review_user_key	int	4	User from last KTM document review session. Foreign key to user_dim
	is_exported	bit	1	Set true at export session close, if page was part of the completely exported batch

Icon	Name	Data Type	Max Length (Bytes)	Description
	etl_job_key	int	4	Used internally



## Table ta\_categories\_dim

This table defines TotalAgility categories. All other tables that need to refer a category reference this table.

Icon	Name	Data Type	Max Length (Bytes)	Description
	category_key	bigint	8	Unique key
	category_id	nvarchar(255)	510	TotalAgility category ID
	category_name	nvarchar(255)	510	Category name
	dt_last_change	datetime		Time of the latest record change
	etl_job_key	int	4	Used internally




## Table ta\_classif\_group\_dim

This table defines classification groups. All other tables that need to refer a classification group reference this table.

Icon	Name	Data Type	Max Length (Bytes)	Description
	classification_group_key	bigint	8	Unique key
	classification_group_name	nvarchar(255)	510	Group name
	classification_group_id	nvarchar(255)	510	Group id
	classification_group_version	nvarchar(255)	510	Group version
	classif_group_cat_key	bigint	8	Category key Foreign key to ta_categories_dim
	classification_group_id_vers	nvarchar(255)	510	Used internally
	dt_last_change	datetime		Time of the latest record change
	etl_job_key	int	4	Used internally

## Table field\_column\_dim

This table holds all known table field columns. The ETL agent updates it when processing batch close events containing index field information.

Icon	Name	Data Type	Max Length (Bytes)	Description
	field_column_key	bigint	8	Unique key
	field_column_name	nvarchar(255)	510	Field column name
	etl_job_key	int	4	Used internally

## Chapter 2

# Fact tables

Fact tables store information about actions related to capture. For example, the `batch_sess_snapshot_fact` table stores the facts of CEBPM activities.










The fact tables contain business facts (or measures), and foreign keys that typically refer to primary keys in the dimension tables.

## Session snapshot tables





The Session snapshot tables hold information about an individual batch processing or document processing session.

### Table `batch_sess_snapshot_fact`

This table holds one record for each `IBatchSession.Close` call.


Icon	Name	Data Type	Max Length (Bytes)	Description
	<code>batch_sess_snapshot_key</code>	<code>bigint</code>	8	Unique key
	<code>batch_sess_id</code>	<code>nvarchar(255)</code>	510	Used internally (foreign key to staging database table)
	<code>mod_key</code>	<code>int</code>	4	Module Foreign key to <code>mod_dim</code>
	<code>station_key</code>	<code>int</code>	4	Station Foreign key to <code>station_dim</code>
	<code>user_key</code>	<code>int</code>	4	User Foreign key to <code>user_dim</code>
	<code>batch_key</code>	<code>bigint</code>	8	Batch Foreign key to <code>batch_dim</code>
	<code>start_date_key</code>	<code>int</code>	4	Date of batch session start Foreign key to <code>date_dim</code>
	<code>start_time_key</code>	<code>int</code>	4	Time of batch session start Foreign key to <code>time_dim</code>
	<code>end_date_key</code>	<code>int</code>	4	Date of batch session close Foreign key to <code>date_dim</code>



Icon	Name	Data Type	Max Length (Bytes)	Description
	end_time_key	int	4	Time of batch session close Foreign key to time_dim
	dt_end_datetime	datetime	8	Full date and time of batch session close call.
	session_type	int	4	Session type This is a bit field populated from ISessionType. 1 = Recognition 2 = Validation 4 = Classification 8 = KTM Correction 16 = KTM Document Review For example, a value of 5 means this session does recognition (1) and classification (4).
	is_attended_sess	bit	1	1 if this is an attended session From ISessionType.IsAttended
	batch_state	int	4	Resulting batch status From State parameter in IBatchSession.Close
	sess_duration_sec	int	4	Session duration in seconds between: <ul style="list-style-type: none"> <li>ISession.OpenBatch and IBatchSession.Close</li> </ul> OR <ul style="list-style-type: none"> <li>ISession.CreateBatch and IBatchSession.Close</li> </ul>
	docs_created_num	int	4	Number of documents created in this session. Count of the following calls: <ul style="list-style-type: none"> <li>IEdit.CopyDocument</li> <li>IEdit.CreateDocument</li> <li>IEdit.SplitDocument</li> </ul>
	docs_deleted_num	int	4	Number of documents deleted in this session. Count of the following calls: <ul style="list-style-type: none"> <li>IEdit.DeleteDocument</li> <li>IEdit.MergeDocument</li> </ul>


Icon	Name	Data Type	Max Length (Bytes)	Description
	docs_compl_num	int	4	Number of documents completed in this session. Count of documents with <code>IsCompleted = true</code> provided by the <code>IBatchSession.Close</code> call.
	pages_scanned_num	int	4	Number of pages scanned in this session. Count of the <code>IEdit.ScanPage</code> and <code>IEdit.CopyPage</code> calls, and the count of <code>NewPages</code> provided in the <code>IEdit.CopyDocument</code> call.
	pages_replaced_num	int	4	Number of pages replaced in this session. Count of the <code>IEdit.ReplacePage</code> calls.
	pages_deleted_num	int	4	Number of pages deleted in this session. Count of the <code>IEdit.DeletePage</code> calls, and the count of <code>DeletedPages</code> provided in the <code>IEdit.DeleteDocument</code> call.
	form_types_changed_num	int	4	Number of form type changes in this session. Count of the <code>IEdit.ChangeFormType</code> calls.
	key_strok_num	int	4	Number of keystrokes reported in this session. Summarizes keystroke information from each document provided in the <code>IBatchSession.Close</code> calls. If a document contains field-level keystroke information ( <code>IField.KeyStrokes</code> ), the document level keystrokes ( <code>IDocumentPerformance.KeyStrokes</code> ) are ignored. It is assumed that keystrokes are reported either per field or per document, but not on both levels.
	conf_classes_changed_num	int	4	Number of confident KTM classes changed in this session. Count of the <code>IEdit.ChangeConfidentClass</code> calls.
	sugg_classes_accepted_num	int	4	Number of suggested KTM classes accepted in this session. Count of the <code>IEdit.AcceptSuggestedClass</code> calls.
	sugg_classes_changed_num	int	4	Number of suggested KTM classes changed in this session. Count of the <code>IEdit.ChangeSuggestedClass</code> calls.








Icon	Name	Data Type	Max Length (Bytes)	Description
	corr_split_points_num	int	4	Number of correct split points. Count of <code>ISeparation.CorrectSplits</code> from the <code>IBatchSession.EndDocumentReview</code> call.
	wrong_split_points_num	int	4	Number of wrong split points. Count of <code>ISeparation.WrongSplits</code> from the <code>IBatchSession.EndDocumentReview</code> call.
	missed_split_points_num	int	4	Number of missed split points. Count of <code>ISeparation.MissingSplits</code> from the <code>IBatchSession.EndDocumentReview</code> call.
	folders_split_num	int	4	Not used
	folders_merged_num	int	4	Not used
	folders_created_num	int	4	Not used
	folders_deleted_num	int	4	Not used
	docs_unclassified_num	int	4	Number of unclassified documents. Count of <code>IRules.DocumentsUnclassified</code> from the <code>IBatchSession.StartDocumentReview</code> call.
	batch_rule_failure_num	int	4	Number of batch rule failures. Count of <code>IRules.BatchRuleFailures</code> from the <code>IBatchSession.StartDocumentReview</code> call.
	batch_rule_problem_num	int	4	Number of batch rule problems. Count of <code>IRules.BatchRuleProblems</code> from the <code>IBatchSession.StartDocumentReview</code> call.
	doc_rule_failure_num	int	4	Number of document rule failures. Count of <code>IRules.DocumentRuleFailures</code> from the <code>IBatchSession.StartDocumentReview</code> call.


Icon	Name	Data Type	Max Length (Bytes)	Description
	doc_rule_problem_num	int	4	Number of document rule problems. Count of <code>IRules.DocumentRuleProblems</code> from the <code>IBatchSession.StartDocumentReview</code> call.
	folder_rule_failure_num	int	4	Number of folder rule failures. Count of <code>IRules.FolderRuleFailures</code> from the <code>IBatchSession.StartDocumentReview</code> call.
	folder_rule_problem_num	int	4	Number of folder rule problems. Count of <code>IRules.FolderRuleProblems</code> from the <code>IBatchSession.StartDocumentReview</code> call.
	docs_num	int	4	Number of documents provided in the <code>IBatchSession.Close</code> call.
	pages_num	int	4	Total number of pages provided in the <code>IBatchSession.Close</code> call.
	ms_in_class_sep	int	4	Milliseconds spent in classification or separation during this session ( <code>IBatchSession.TimeInClassSep</code> ) Only applies to KTM modules.
	pages_added_num	int	4	Number of pages added in this session. The page might be scanned, copied or moved from another batch.
	docs_added_num	int	4	Number of documents added in this session. The document might be scanned, copied or moved from another batch.
	ta_job_id	binary(16)	16	TotalAgility Job ID
	ta_classification_group_key	int	4	References <code>ta_classification_groups</code> table.
	etl_job_key	int	4	References <code>ta_classification_groups</code> table.

## Table doc\_sess\_snapshot\_fact

This table holds one record for each document provided in `IBatchSession.Close` call. It contains per-document counters for this session.

Icon	Name	Data Type	Max Length (Bytes)	Description
	doc_sess_snapshot_key	bigint	8	Unique key

Icon	Name	Data Type	Max Length (Bytes)	Description
	batch_sess_snapshot_key	bigint	8	Foreign key to batch_sess_snapshot_fact
	mod_key	int	4	Module Foreign key to mod_dim
	station_key	int	4	Station Foreign key to station_dim
	user_key	int	4	User Foreign key to user_dim
	batch_key	bigint	8	Batch information Foreign key to batch_dim
	doc_key	bigint	8	Document information Foreign key to doc_dim
	end_date_key	int	4	Date when <code>IBatchSession.Close</code> was called.
	end_time_key	int	4	Time of day when <code>IBatchSession.Close</code> was called.
	dt_end_datetime	datetime	8	Used internally
	session_type	int	4	Session type. See session_type in the batch_sess_snapshot_fact table.
	key_strok_num	int	4	Number of keystrokes reported for this document either per field or per document (not on both levels). If a document contains field-level keystroke information ( <code>IField.KeyStrokes</code> ), the document level keystrokes ( <code>IDocumentPerformance.KeyStrokes</code> ) are ignored.
	ms_in_ocr	int	4	Milliseconds spent for OCR. <code>IDocumentPerformance.TimeInOcr</code>
	ms_in_extr	int	4	Milliseconds spent for extraction. <code>IDocumentPerformance.TimeInExtraction</code>
	ms_in_class	int	4	Milliseconds spent for classification. <code>IDocumentPerformance.TimeInClassification</code>
	doc_sess_duration_ms	int	4	Total milliseconds spent processing this document. <code>IDocumentPerformance.TimeSpent</code>
	is_confly_classified	bit	1	1 if classification session and document was confidently classified. <code>IDocument.IsConfident</code>



Icon	Name	Data Type	Max Length (Bytes)	Description
	class_confidence_perc	int	4	Classification confidence in percent (only in classification session). <code>IDocument.Confidence</code>
	page_num	int	4	Number of elements in <code>IDocument.Pages</code> list.
	field_num	int	4	Only for modules providing field-level information: Number of elements in the <code>IDocument.Fields</code> list.
	etl_job_key	int	4	Used internally

## Accumulative fact tables


The Accumulative Fact tables accumulate information about a single batch, document or field. They summarize counters from several module sessions.

### Table [batch\\_accum\\_fact](#)

This table holds the batch-level counters aggregated during the life of a batch and describes the `batch_session_snapshot_fact` entries for a batch.





Icon	Name	Data Type	Max Length (Bytes)	Description
	batch_accum_key	bigint	8	Unique key
	batch_key	bigint	8	Batch information Foreign key to <code>batch_dim</code>
	docs_num	int	4	Number of documents from last <code>IBatchSession.Close</code> call.
	pages_num	int	4	Number of pages from last <code>IBatchSession.Close</code> call.
	end_to_end_sec_num	int	4	Number of seconds between batch creation and last batch close call.
	processing_sec_num	int	4	Summarizes <code>sess_duration_sec</code> from the <a href="#">batch_sess_snapshot_fact</a> table.
	docs_created_num	int	4	Summarizes information from the <a href="#">batch_sess_snapshot_fact</a> table.
	docs_deleted_num	int	4	Summarizes information from the <a href="#">batch_sess_snapshot_fact</a> table.
	docs_compl_num	int	4	Summarizes information from the <a href="#">batch_sess_snapshot_fact</a> table.

Icon	Name	Data Type	Max Length (Bytes)	Description
	pages_scanned_num	int	4	Summarizes information from the <a href="#">batch_sess_snapshot_fact</a> table.
	pages_replaced_num	int	4	Summarizes information from the <a href="#">batch_sess_snapshot_fact</a> table.
	pages_deleted_num	int	4	Summarizes information from the <a href="#">batch_sess_snapshot_fact</a> table.
	form_types_changed_num	int	4	Summarizes information from the <a href="#">batch_sess_snapshot_fact</a> table.
	key_strok_num	int	4	Summarizes information from the <a href="#">batch_sess_snapshot_fact</a> table.
	conf_classes_changed_num	int	4	Summarizes information from the <a href="#">batch_sess_snapshot_fact</a> table.
	sugg_classes_accepted_num	int	4	Summarizes information from the <a href="#">batch_sess_snapshot_fact</a> table.
	sugg_classes_changed_num	int	4	Summarizes information from the <a href="#">batch_sess_snapshot_fact</a> table.
	corr_split_points_num	int	4	Summarizes information from the <a href="#">batch_sess_snapshot_fact</a> table.
	wrong_split_points_num	int	4	Summarizes information from the <a href="#">batch_sess_snapshot_fact</a> table.
	missed_split_points_num	int	4	Summarizes information from the <a href="#">batch_sess_snapshot_fact</a> table.
	folders_split_num	int	4	Not used
	folders_merged_num	int	4	Not used
	folders_created_num	int	4	Not used
	folders_deleted_num	int	4	Not used
	docs_unclassified_num	int	4	Summarizes information from the <a href="#">batch_sess_snapshot_fact</a> table.
	batch_rule_failure_num	int	4	Summarizes information from the <a href="#">batch_sess_snapshot_fact</a> table.
	batch_rule_problem_num	int	4	Summarizes information from the <a href="#">batch_sess_snapshot_fact</a> table.
	doc_rule_failure_num	int	4	Summarizes information from the <a href="#">batch_sess_snapshot_fact</a> table.
	doc_rule_problem_num	int	4	Summarizes information from the <a href="#">batch_sess_snapshot_fact</a> table.
	folder_rule_failure_num	int	4	Summarizes information from the <a href="#">batch_sess_snapshot_fact</a> table.
	folder_rule_problem_num	int	4	Summarizes information from the <a href="#">batch_sess_snapshot_fact</a> table.

Icon	Name	Data Type	Max Length (Bytes)	Description
	etl_job_key	int	4	Used internally

## Table doc\_accum\_fact

This table holds the document-level counters aggregated during the life of a document and describes the doc\_session\_snapshot\_fact entries for a document.







Icon	Name	Data Type	Max Length (Bytes)	Description
	doc_accum_key	bigint	8	Unique key
	batch_key	bigint	8	Batch information Foreign key to batch_dim
	doc_key	bigint	8	Document information Foreign key to doc_dim
	ms_in_ocr	int	4	Summarizes information from doc_sess_snapshot_fact.
	ms_in_extr	int	4	Summarizes information from doc_sess_snapshot_fact.
	ms_in_class	int	4	Summarizes information from doc_sess_snapshot_fact.
	key_strok_num	int	4	Summarizes information from doc_sess_snapshot_fact.
	page_num	int	4	page_num from last doc_sess_snapshot_fact record.
	field_num	int	4	field_num from last doc_sess_snapshot_fact record.
	is_confly_classified	bit	1	Record of last classification session from doc_sess_snapshot_fact.
	class_confidence_perc	int	4	Record of last classification session from doc_sess_snapshot_fact.
	etl_job_key	int	4	Used internally


## Table field\_accum\_fact

This table holds summary information about the single index fields in a document. The combination of document ID, field name and row number is the unique key.

The ETL agent deletes old entries from this table after a configurable time. The information is summarized into the field\_aggregate\_fact table.








Icon	Name	Data Type	Max Length (Bytes)	Description
	field_accum_key	bigint	8	Unique key
	batch_key	bigint	8	Batch information Foreign key to batch_dim
	doc_key	bigint	8	Document information Foreign key to doc_dim
	field_key	int	4	Field name Foreign key to field_dim
	field_column_key	bigint	8	Foreign key to field_column_dim for table fields. -1 for non-table fields.
	group_value_key	int	4	Group value Foreign key to group_value_dim
	dt_last_recog	datetime	8	Time of last recognition session.
	dt_last_valid	datetime	8	Time of last validation session.
	dt_last_correc	datetime	8	Time of last correction session.
	dt_last_review	datetime	8	Time of last document review session.
	dt_last_class	datetime	8	Time of last classification session.
	dt_last_sess	datetime	8	Time of last IBatchSession.Close with information about this field.
	field_tbl_index	int	4	Table index (if this is a table field) IField.RowId
	field_recog_status_key	int	4	Field recognition status This field is initialized to 5. In the <u>validation session</u> , the value is set according to IField.IsValid and IField.IsChanged. <ul style="list-style-type: none"> <li>• A field is valid if IField.IsValid is true.</li> <li>• A field is correct if IField.IsChanged is false.</li> </ul> Foreign key to field_recog_status_dim
	key_strok_num	int	4	Total keystrokes into this field Sum of IField.KeyStrokes for this field
	conf_corr_chars_num	int	4	Sum of IField.CorrectConfidentChars for this field.

Icon	Name	Data Type	Max Length (Bytes)	Description
	conf_incorr_chars_num	int	4	Sum of <code>IField.IncorrectConfidentChars</code> for this field.
	unconf_corr_chars_num	int	4	Sum of <code>IField.CorrectInconfidentChars</code> for this field.
	unconf_incorr_chars_num	int	4	Sum of <code>IField.IncorrectInconfidentChars</code> for this field.
	field_value	nvarchar(1024)	2048	Current field value. Last <code>IField.Value</code> for this field.
	original_value	nvarchar(1024)	2048	Automatically recognized field value. <code>IField.Value</code> from the last recognition session.
	field_confidence_perc	int	4	Confidence of field recognition. <code>IField.Confidence</code> from the last recognition session
	chars_recognized_num	int	4	Number of automatically recognized characters. Length of <code>original_value</code>
	conf_chars_num	int	4	Number of confidently recognized characters. <code>IField.ConfidentChars</code> from the last recognition value
	chars_validated_num	int	4	Number of characters after validation session. Length of <code>IField.Value</code> from the last validation session
	is_deleted	bit		Signals whether the field was deleted for rows in table fields.
	etl_job_key	int	4	Used internally

## Other fact tables





### Table [field\\_aggregate\\_fact](#)

This table is updated on batch export and contains aggregates of field data. It describes field recognition accuracy by field, batch and group value, and holds one entry for each combination of field name, batch and group value. It is used by the KTM reports.

Icon	Name	Data Type	Max Length (Bytes)	Description
	field_aggregate_key	bigint	8	Unique Key
	field_key	int	4	Field name Foreign key to <code>field_dim</code>
	batch_key	int	4	Batch Foreign key to <code>batch_dim</code>
	field_column_key	bigint	8	Foreign key to <code>field_column_dim</code> for table fields. -1 for non-table fields.
	group_value_key	int	4	Group value Foreign key to <code>group_value_dim</code>
	total_docs_num	int	4	Total number of documents matching the above criteria (field, batch, group value)
	total_pages_num	int	4	Total number of pages matching these criteria
	total_fields_num	int	4	Total number of fields matching these criteria
	valid_corr_field_num	int	4	Total number of valid and correct fields matching these criteria
	valid_incorr_field_num	int	4	Total number of valid and incorrect fields matching these criteria
	invalid_corr_field_num	int	4	Total number of invalid and correct fields matching these criteria
	invalid_incorr_field_num	int	4	Total number of invalid and incorrect fields matching these criteria
	total_chars_num	int	4	Total number of validate characters (sum of the next four columns)
	conf_corr_chars_num	int	4	Total number of confident and correct characters
	conf_incorr_chars_num	int	4	Total number of confident and incorrect characters
	unconf_corr_chars_num	int	4	Total number of unconfident and correct characters
	unconf_incorr_chars_num	int	4	Total number of confident and incorrect characters
	etl_job_key	int	4	References <code>ta_classification_groups</code> table

## Table `batch_field_fact`










This table is updated at `IBatchSession.Close` and contains batch field information. It holds one record for each combination of batch, batch field name and batch field value.







Icon	Name	Data Type	Max Length (Bytes)	Description
	batch_field_key	bigint	8	Unique key
	batch_key	bigint	8	Batch information Foreign key to <code>batch_dim</code>
	field_key	int	4	Batch field name Foreign key to <code>field_dim</code>
	field_value	nvarchar(1024)	2048	Batch field value <code>IBatchField.Value</code>
	etl_job_key	int	4	References <code>ta_classification_groups</code> table

## Table `object_audit_fact`

This table contains batch-edit information including batch-level actions created internally by API (batch create, batch delete, batch export, batch open, batch close) as well as explicit calls to the IEdit interface.








There is one record for each individual audited event. Existing records are never updated.







Icon	Name	Data Type	Max Length (Bytes)	Description
	object_audit_key	bigint	8	Internal unique key
	batch_key	bigint	8	Batch information Foreign key to <code>batch_dim</code> May be -1 if no batch involved
	folder_key	bigint	8	Not used
	doc_key	bigint	8	Document information Foreign key to <code>doc_dim</code> May be -1 if no document involved
	page_key	bigint	8	Page information Foreign key to <code>page_dim</code> May be -1 if no page involved
	date_key	int	4	Event date Foreign key to <code>date_dim</code>
	time_key	int	4	Event time Foreign key to <code>time_dim</code>
	user_key	int	4	User Foreign key to <code>user_dim</code>
	mod_key	int	4	Module Foreign key to <code>mod_dim</code>

Icon	Name	Data Type	Max Length (Bytes)	Description
	station_key	int	4	Station Foreign key to station_dim
	machine_key	int	4	Machine Foreign key to machine_dim
	object_action_key	int	4	Action type Foreign key to object_action_dim
	reject_note_key	int	4	Reject note (or -1 if no reject action) Foreign key to reject_note_dim
	export_mod_key	int	4	Export connector (or -1) Foreign key to mod_dim
	is_interactive	bit	1	1 for interactive actions IEdit.IsInteractive
	sequence_num	int	4	Sequential action number within the session
	comments	nvarchar(255)	510	Event comment
	etl_job_key	int	4	Used internally

## Table admin\_audit\_fact

This table holds information about administrative actions reported via the `IAdminSession` interface. Each function call on this interface creates one record.

Icon	Name	Data Type	Max Length (Bytes)	Description
	admin_audit_key	bigint	8	Unique key
	admin_audit_id	nvarchar(255)	510	Used internally
	product_key	int	4	Foreign key to product_dim
	action_id	int	4	Action ID References admin_text_dim
	action_type_id	int	4	Action type ID References admin_type_dim
	date_key	int	4	Action date Foreign key to date_dim
	time_key	int	4	Action time Foreign key to time_dim
	station_key	int	4	Station Foreign key to station_dim
	user_key	int	4	User Foreign key to user_dim

Icon	Name	Data Type	Max Length (Bytes)	Description
	program_key	int	4	Program Foreign key to mod_dim
	machine_key	int	4	Program Foreign key to machine_dim
	context_id	int	4	Action Context References admin_context_dim
	sequence_num	int	4	Sequential action number within session
	param1_type to param5_type	int	4	Type of parameter 1 to 5 References admin_param_dim
	param1_value_key to param5_value_key	bigint	8	Value of parameter 1 to 5 Foreign key to admin_value_dim
	param1_version_key to param5_version_key	bigint	8	Version of parameter 1 to 5 Foreign key to admin_value_dim
	etl_job_key	int	4	Used internally