



Tungsten TotalAgility Reporting Tables

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Preface

This guide describes the Dimension and Fact tables of the Tungsten TotalAgility Reporting data warehouse. These tables store information related to Capture client activities of Tungsten TotalAgility.

Users with database role `kfx_advanced_reader` only have 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.

 These are the only database tables for which direct read-only access is permitted.

The following is the full list of Reporting tables.

TotalAgility_Reporting	TotalAgility_Reporting_Staging
field_dim	wsa_retention_stamp
field_column_dim	wsa_messages
field_accum_fact	kfx_db_version
etl_job_details	existing_id_values
etl_job	etl_agent
doc_sess_snapshot_fact	
doc_export_fact	
event_data_dim	
path_dim	
doc_dim	
doc_class_dim	
doc_accum_fact	
date_dim	
batch_sess_snapshot_fact	
batch_field_fact	
batch_dim	
batch_class_dim	
batch_accum_fact	
field_changes_fact	
tmp_delete_doc_dim	
retention_stamp	

user_dim	
tsf_class_dim	
time_dim	
ta_classif_group_dim	
ta_categories_dim	
station_dim	
reject_note_dim	
product_dim	
page_dim	
object_audit_fact	
object_action_dim	
mod_dim	
machine_dim	
kfx_db_version	
group_value_dim	
field_recog_status_dim	

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 Capture Client activities.

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




The Tungsten TotalAgility Reporting ETL (Extract/Transform/Load) algorithm 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

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 2050-12-31.

Icon	Name	Data Type	Max Length (Bytes)	Description
	date_key	int	4	Year * 10000 + Month * 100 + Day Example: 20150222 for February 22, 2015
	full_date	datetime	8	
	calendar_year	int	4	Example: 2015
	month_number_of_year	int	4	1-12
	ym	nvarchar(6)	12	Year and month in format of YYYYMM.
	day_number_of_month	int	4	1-31
	etl_job_key	int	4	Used internally. Always equals -1.

field_recog_status_dim



This table holds possible Tungsten Transformation 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:																		
				<table><tr><th>Value</th><th>Status</th><th>Description</th></tr><tr><td>1</td><td>Valid and correct</td><td>This status corresponds to the field which was extracted confidently in recognition session and was not changed in validation session.</td></tr><tr><td>2</td><td>Valid and incorrect</td><td>This status corresponds to the field which was extracted confidently in recognition session and was changed in validation session.</td></tr><tr><td>3</td><td>Rejected and correct</td><td>This status corresponds to the field which was not extracted confidently in recognition session and was not changed in validation session.</td></tr><tr><td>4</td><td>Rejected and incorrect</td><td>This status corresponds to the field which was not extracted confidently in recognition session and was changed in validation session.</td></tr><tr><td>5</td><td>Unknown</td><td>No validation data yet.</td></tr></table>	Value	Status	Description	1	Valid and correct	This status corresponds to the field which was extracted confidently in recognition session and was not changed in validation session.	2	Valid and incorrect	This status corresponds to the field which was extracted confidently in recognition session and was changed in validation session.	3	Rejected and correct	This status corresponds to the field which was not extracted confidently in recognition session and was not changed in validation session.	4	Rejected and incorrect	This status corresponds to the field which was not extracted confidently in recognition session and was changed in validation session.	5	Unknown	No validation data yet.
				Value	Status	Description																
				1	Valid and correct	This status corresponds to the field which was extracted confidently in recognition session and was not changed in validation session.																
				2	Valid and incorrect	This status corresponds to the field which was extracted confidently in recognition session and was changed in validation session.																
				3	Rejected and correct	This status corresponds to the field which was not extracted confidently in recognition session and was not changed in validation session.																
				4	Rejected and incorrect	This status corresponds to the field which was not extracted confidently in recognition session and was changed in validation session.																
5	Unknown	No validation data yet.																				
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Icon	Name	Data Type	Max Length (Bytes)	Description
	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 if the field is valid and correct else 0.
	valid_incorr_num	int	4	Used like a bit field. 1 if the field is valid and incorrect else 0.
	invalid_corr_num	int	4	Used like a bit field. 1 if the field is rejected and correct else 0.
	invalid_incorr_num	int	4	Used like a bit field. 1 if the field is rejected and incorrect else 0.
	etl_job_key	int	4	Used internally. Always equals -1.

object_action_dim

This table holds the descriptive text for event actions related to batches, documents, and pages. The database creation script populates 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	A short descriptive name, displayed in views.
	etl_job_key	int	4	Used internally. Always equals -1.

The following table lists all the event codes with descriptions for the object_action_dim table.

object_action_key	object_action_name	Description
0	logoff	This code is not currently used.
1	successful logon	This code is not currently used.
2	failed logon	This code is not currently used.
10001	page scan	Page is ingested via scan.
10002	page move	Page is moved within a document or between documents.
10003	page delete	Page is deleted.
10004	page export	Page is exported by the export module.
10007	page replace	Page is replaced with another one.
10008	page copy	This code is not currently used.
10009	page rotate	Page is rotated.
10010	page reject	Page is rejected.

object_action_key	object_action_name	Description
10011	page unreject	The page is un-rejected.
10012	page redact	This code is not currently used.
10013	page scan (KFS)	This code is not currently used.
10014	page annotate	Page is annotated.
10015	page move out of batch	Page is moved out the root folder.
10016	page move into batch	Page is moved in the root folder.
10017	delete annotation from page	Annotation is deleted from the page.
10018	page mask	This code is not currently used.
20001	doc create (KFS)	This code is not currently used.
20002	doc move	Document is moved.
20003	doc delete	Document is deleted.
20004	doc export	Document is exported by the export module.
20005	doc create via split	Document is created by splitting another document.
20006	doc delete via merge	Document is deleted by merging with another document.
20007	doc reject	Document is rejected.
20008	doc unreject	Document is unrejected.
20009	sugg class change	Unconfidently classified document was reclassified by the user.
20010	sugg class accept	Unconfidently classified document was confirmed by the user.
20011	conf class change	Confidently classified document was reclassified by the user.
20012	form type change	This code is not currently used.
20013	doc copy	Document is copied.
20014	doc lost pages by split	Document lost the pages during the split.
20015	doc gained pages by merge	Document got the pages during the merge with another document.
20016	doc create	Document is created.
20017	doc reorder (KFS)	This code is not currently used.
20018	doc move out of batch	Document is moved out of the root folder.
20019	doc move into batch	Document is moved to the root folder.
20020	doc name changed	This code is not currently used.
20021	override document problem	Remove some problems associated with the document.
20022	restore document problem	Associate some problems with the document.



object_action_key	object_action_name	Description
20023	doc system classified	Document is classified in an unattended session.
20024	pages moved between docs	Pages are moved inside the document.
20025	capture complete	Document is marked as completed in Capture activities.
30001	batch create	Root folder is created.
30002	batch delete	Root folder is deleted.
30003	batch open (interactive)	Root folder is opened in an attended TotalAgility activity.
30004	batch close (interactive)	Root folder is closed in an attended TotalAgility activity.
30005	batch suspend	This code is not currently used.
30006	batch timeout	Root folder processing within the TotalAgility activity is timed out.
30007	batch export	Root folder is exported by the export module.
30008	batch open (not interactive)	Root folder is opened in an unattended TotalAgility activity.
30009	batch close (not interactive)	Root folder is closed in an unattended TotalAgility activity.
40001	folder create (not interactive)	This code is not currently used.
40002	folder delete (not interactive)	This code is not currently used.
40003	folder merge (not interactive)	This code is not currently used.
40004	folder split (not interactive)	This code is not currently used.
40005	override folder problem	This code is not currently used.
40006	restore folder problem	This code is not currently used.
50001	delete document field row	User deleted a field row for a table field in the document.
60001	manual field changed	Fields are changed.
60002	single field change	Used internally for the history of the field changes.

product_dim

This table holds product IDs for reporting integrated products. The database creation script adds records for the Tungsten Capture (TC), Tungsten Transformation (TT), and Tungsten Front Office Server (TFS) 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 Tungsten Automation product is integrated with Reporting, this table must be populated with a corresponding record.

Currently all Tungsten TotalAgility-related activities have a product_key equal to 2 (Tungsten TotalAgility).

Icon	Name	Data Type	Max Length (Bytes)	Description
	product_key	int	4	Unique product ID.
	product_text	nvarchar(32)	64	Unique short product name. Examples: KC and KFS
	product_descr	nvarchar(255)	510	Product name to display. Examples: Tungsten Capture and Tungsten Transformation

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: For 12 hours, 35 minutes and 15 seconds, the value is 12003515.
	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 the format of HH:MM:SS.
	full_time	datetime	8	SQL time
	etl_job_key	int	4	Used internally. Always equals -1.

Dimension tables maintained by the Reporting Server






All dimension tables in this section hold an additional record with a 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.

batch_dim

The Reporting server updates this table whenever new information about the batch (TotalAgility Activity) 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 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 the day. Foreign key to time_dim.
	export_date_key	int	4	The batch export date when the Export module closes batch with status Deleted. Foreign key to date_dim.
	export_time_key	int	4	Batch export time of the day. Foreign key to time_dim.
	delete_date_key	int	4	The 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 the 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 the date. Foreign key to time_dim.
	create_station_key	int	4	Station that provided the batch creation 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 the newest information about the batch. Foreign key to station_dim.
	last_proc_user_key	int	4	User from the last batch-related information. Foreign key to user_dim.
	last_proc_mod_key	int	4	Module from the last batch-related information. Foreign key to mod_dim.
	dt_last_proc_datetime	datetime	8	Used internally. Points to the last processing date and time.

Icon	Name	Data Type	Max Length (Bytes)	Description												
	batch_state	int	4	Batch status from batch session close events. The valid batch state values are:												
				<table><tr><th>State</th><th>Value</th><th>Description</th></tr><tr><td>Ready</td><td>2</td><td>Ready for the next module.</td></tr><tr><td>Error</td><td>32</td><td>Batch is in error state.</td></tr><tr><td>Deleted</td><td>256</td><td>Batch was deleted in this session.</td></tr></table>	State	Value	Description	Ready	2	Ready for the next module.	Error	32	Batch is in error state.	Deleted	256	Batch was deleted in this session.
				State	Value	Description										
				Ready	2	Ready for the next module.										
				Error	32	Batch is in error state.										
Deleted	256	Batch was deleted in this session.														
	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 is exported.												
	is_deleted	bit	1	1 if batch is deleted.												
	etl_job_key	int	4	Used internally. Points to the last session that changed the entry.												







batch_class_dim












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




Icon	Name	Data Type	Max Length (Bytes)	Description
	batch_class_key	int	4	Unique key.
	batch_class	nvarchar(255)	510	Batch class name from IBatchInfo.Class.
	batch_class_descr	nvarchar(255)	510	Batch class description from IBatchInfo.ClassDescription.
	product_key	int	4	Foreign key to product_dim.
	dt_last_change	datetime	8	Used internally. Points to the last changed date and time.
	etl_job_key	int	4	Used internally. Points to the last session that changed the entry.

doc_dim

This table holds the latest known status of each document. The Reporting server 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 IDocument.Id and documentID parameters in IEdit calls.
	initial_doc_class_key	int	4	Document class from classification session. Foreign key to doc_class_dim.
	doc_class_key	int	4	The latest known document class from IDocument.Class. Foreign key to doc_class_dim.
	initial_tsf_class	int	4	Automatically recognized Tungsten Transformation class. IDocument.TransformationClass from the classification session. Foreign key to tsf_class_dim.
	tsf_class	int	4	Tungsten Transformation class after document review. IDocument.TransformationClass from document review session. Foreign key to tsf_class_dim.
	is_exported	bit	1	Set to true at export session close if the document is part of the completely exported batch.
	is_processing_completed	bit	1	Set to true if the batch to which document belongs is marked as completed.
	is_aggr	bit	1	Used internally by ETL algorithm.
	group_value_key	int	4	Last known Tungsten Transformation group value from IDocument.GroupValue. Foreign key to group_value_dim
	create_date_key	int	4	The date when the document was created (via IEdit.CreateDocument or IEdit.SplitDocument). Foreign key to date_dim.
	create_time_key	int	4	Time of date for document creation.
	dt_create_datetime	datetime	8	Time and date of document creation in the SQL DateTime format.

Icon	Name	Data Type	Max Length (Bytes)	Description
	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 the last available document-related information. Foreign key to date_dim.
	last_proc_time_key	int	4	Time of the last available document-related information. Foreign key to time_dim.
	dt_last_proc_datetime	datetime	8	Date and time of the last available document-related information in the SQL DateTime format.
	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 last user who processed this document. Foreign key to user_dim.
	classified_date_key	int	4	The date from the last classification session batch close event. Foreign key to date_dim.
	classified_time_key	int	4	Time of the day from the last classification session batch close event. Foreign key to time_dim.
	dt_last_class_datetime	datetime	8	Date and time when the document was last classified in the SQL DateTime format.
	reviewed_date_key	int	4	Date from the last Tungsten Transformation document review session batch close event. Foreign key to date_dim.
	reviewed_time_key	int	4	Time from the last Tungsten Transformation document review session batch close event. Foreign key to time_dim.
	dt_last_review_datetime	datetime	8	Date and time of the last document review in the SQL DateTime format.
	review_user_key	int	4	User from the last Tungsten Transformation document review session. Foreign key to user_dim.

Icon	Name	Data Type	Max Length (Bytes)	Description
	product_key	int	4	Foreign key to product_dim.
	etl_job_key	int	4	Used internally.
	path_key	bigint	8	Internal unique key for the path_dim table.
	in_root_folder_position	int	4	Document number counting from the first one relative to the root folder.
	in_sub_folder_position	int	4	Document number counting from the first one relative to the nearest subfolder.
	display_name	nvarchar(255)	510	The last known calculated document display name from the IDocument.DisplayName parameters in IEdit calls.
	is_sys_classified	bit		1 if document is system classified. Value is set to IDocument.IsSystemClassified.
	in_root_fold_pos_sys_clsf	int	4	Document number counting from the first one relative to the root folder where the document was system classified last.
	is_deleted	bit	1	Sets to true if the document is deleted from the system.

doc_class_dim

Reporting server adds a record to this table during ETL when it encounters a new document class name (Tungsten TotalAgility document type) 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 from IDocument.Class.
	product_key	int	4	Foreign key to product_dim.
	etl_job_key	int	4	Used internally. Points to the last session that changed the entry.

event_data_dim



This table holds additional information for the object_audit_fact records. Each parameter may correspond to a different type of data as below.

Event Type	Event ID	Details	[event_data_dim] and [object_audit_fact] parameters
System Classified	20023	Previous document type, if any.	[event_param1] contains the key to [tsf_class_dim] or -1.

Event Type	Event ID	Details	[event_data_dim] and [object_audit_fact] parameters
		Classified document type.	[event_param2] contains the key to [tsf_class_dim].
		Confidence and if the classification was confident.	[event_param3] contains the confidence percentage. If the classification is confident, the value is a positive number, otherwise it is negative.
Separation - Split	20005	Previous document identifier.	[event_param1] contains the key to [doc_dim].
		Document identifier of newly created document.	[event_param2] contains the key to [doc_dim].
		If split document was system classified.	[event_param3] contains 1 if the document is system classified at the time of split; otherwise, 0.
		Range of pages - Range of new document pages.	[object_audit_fact].[comment] contains string such as "(2,4)-(1,3)".
		First page of split document.	[object_audit_fact].[page_key] contains the key to [page_dim].
Separation - Merged	20006	Previous document identifier.	[event_param1] contains the key to [doc_dim].
		Document identifier of destination document.	[event_param2] contains the key to [doc_dim].
		Range of pages - Range of new document pages.	[object_audit_fact].[comment] contains string such as "(2,4)-(1,3)".
Separation - Pages Moved	20024	Previous document identifier.	[event_param1] contains the key to [doc_dim].
		Document identifier of destination document.	[event_param2] contains the key to [doc_dim].
		Range of pages - Range of pages in destination document.	[object_audit_fact].[comment] contains string such as "(2,4)-(1,3)".
Suggested Class Changed	20009	Previous document type.	[event_param1] contains the key to [tsf_class_dim].
		New document type.	[event_param2] contains the key to [tsf_class_dim].
Suggested Class Confirmed	20010	Document type.	[event_param1] contains the key to [tsf_class_dim].
Confident Class Changed	20011	Previous document type.	[event_param1] contains the key to [tsf_class_dim].




Event Type	Event ID	Details	[event_data_dim] and [object_audit_fact] parameters
		New document type.	[event_param2] contains the key to [tsf_class_dim].
Document Rejected	20007	Rejection note.	[object_audit_fact].[reject_note_key] contains the key to [reject_note_dim].
Document Un-rejected	20008	None	None
Page Rejected	10010	Rejection note.	[object_audit_fact].[reject_note_key] contains the key to [reject_note_dim].
Page Un-rejected	10011	None	None
Document Deleted	20003	None	None
Page Deleted	10003	Page number.	[event_param1] contains the page number.
Fields Changed	60001	Number of fields that changed.	[event_param1] contains the number of fields.
		Number of keystrokes.	[event_param2] contains the number of keystrokes.
Document Exported	20004	Connector name.	[object_audit_fact].[export_mod_key] contains the key to [mod_dim].
Capture Completed	20025	None	None
Document Deleted by Retention	20026	None	None
Delete Row in the Table Field	50001	Table field from which the row was deleted.	[event_param1] contains the reference to the [field_dim] table field.

Event IDs are stored in the [object_audit_fact].[object_action_key] column. For all the events [event_data_dim].[doc_sess_snapshot_key] are populated to the corresponding document session.

Icon	Name	Data Type	Max Length (Bytes)	Description
	event_data_key	bigint	8	Unique key.
	event_param1	bigint	8	
	event_param2	bigint	8	
	event_param3	bigint	8	
	doc_sess_snapshot_key	bigint	8	Foreign key to doc_sess_snapshot_fact.




field_dim

This table holds all known document field names. The Reporting server adds new records when processing batch close events containing new field information.

Icon	Name	Data Type	Max Length (Bytes)	Description
	field_key	int	4	Unique key.
	field_name	nvarchar(255)	510	Field name from IField.Name or IBatchField.Name.
	etl_job_key	int	4	Used internally. Points to the last session that changed the entry.




field_column_dim

This table holds all known table field columns. The Reporting server updates it when processing batch close events containing table 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. Points to the last session that changed the entry.




group_value_dim

Reporting server adds a record to this table during ETL when it encounters a new Tungsten Transformation group value (TotalAgility document type) in a batch close event.

Icon	Name	Data Type	Max Length (Bytes)	Description
	group_value_key	int	4	Unique key.
	group_value	varchar(255)	510	Tungsten Transformation group value from IDocument.GroupValue.
	etl_job_key	int	4	Used internally. Points to the last session that changed the entry.




machine_dim

This table holds the distinguished computer names of stations that provided information. The computer names are from the servers which have sent the 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. Points to the last session that changed the entry.



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. <ul style="list-style-type: none"> 0 = Normal module 2 = Export connector
	mod_name	nvarchar(255)	510	Module name. <ul style="list-style-type: none"> For normal modules: <code>ISessionInfo.ModuleName</code> For export connectors: <code>ExportConnector</code> parameter in the <code>ExportDocument</code> API call.
	mod_id	nvarchar(255)	510	Unique module ID. <ul style="list-style-type: none"> For normal modules: <code>ISessionInfo.ModuleId</code> For export connectors: <code>ExportConnector</code> parameter in the <code>ExportDocument</code> API call.
	mod_id_type	nvarchar(300)	600	Natural key.
	product_key	int	4	Foreign key to <code>product_dim</code> .
	dt_last_change	datetime	8	Used internally. Points to the last changed timestamp.
	etl_job_key	int	4	Used internally. Points to the last session that changed the entry.

page_dim

This table holds the latest known status of each individual page. The Reporting server 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	Natural key. Page ID from <code>IDocument.Id</code> and <code>documentID</code> parameters in <code>IEdit</code> calls.

Icon	Name	Data Type	Max Length (Bytes)	Description
	original_page_id	nvarchar(255)	510	If this page is the result of export from an external system (another Tungsten Automation product), the <code>original_page_id</code> is set to the 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 <code>doc_dim</code> .
	batch_key	bigint	8	Current owner batch. -1 if not belonging to a batch. Foreign key to <code>batch_dim</code> .
	dt_last_proc_datetime	datetime	8	Date and time when the page was last processed in SQL DateTime format.
	last_proc_date_key	int	4	Date when the page was last processed. Foreign key to <code>date_dim</code> .
	last_proc_time_key	int	4	Time when the page was last processed. Foreign key to <code>time_dim</code> .
	product_key	int	4	Foreign key to <code>product_dim</code> .
	dt_create_datetime	datetime	8	Page creation date and time. First invocation of <code>ScanPage</code> or <code>CopyDocument</code> that indicates the creation of this page.
	create_date_key	int	4	Page creation date. Foreign key to <code>date_dim</code> .
	create_time_key	int	4	Page creation time. Foreign key to <code>time_dim</code> .
	initial_tsf_class_key	int	4	Automatically recognized Tungsten Transformation class. <code>IDocument.TransformationClass</code> from classification session. Foreign key to <code>tsf_class_dim</code>
	tsf_class_key	int	4	Tungsten Transformation class after document review or other activities. <code>IDocument.TransformationClass</code> from document review session. Foreign key to <code>tsf_class_dim</code> .

Icon	Name	Data Type	Max Length (Bytes)	Description
	classified_date_key	int	4	Date from the last classification session batch close event. Foreign key to <code>date_dim</code> .
	classified_time_key	int	4	Time of the day from the last classification session batch close event. Foreign key to <code>time_dim</code> .
	dt_last_class_datetime	datetime	8	Date and time when the page was in the document being classified in SQL DateTime format.
	reviewed_date_key	int	4	Date from the last Tungsten Transformation document review session batch close event. Foreign key to <code>date_dim</code> .
	reviewed_time_key	int	4	Time from the last Tungsten Transformation document review session batch close event. Foreign key to <code>time_dim</code> .
	dt_last_review_datetime	datetime	8	Date and time when the page was in the document being reviewed in SQL DateTime format.
	review_user_key	int	4	User from the last Tungsten Transformation document review session. Foreign key to <code>user_dim</code> .
	is_exported	bit	1	Sets to true at the export session close if the page is a part of the completely exported batch.
	etl_job_key	int	4	Used internally. Points to the last session that changed the entry.
	in_doc_position	int	4	Page number of the document.
	in_doc_position_sys_clsf	int	4	Page number of the document when it was system classified last.
	doc_key_sys_clsf	Bigint	8	Owner of the document when the document was system classified last. Foreign key to <code>doc_dim</code> .




path_dim

This table holds all known document paths within the TotalAgility Root folders. The Reporting server creates the entries per each new composable path for a given document. The path is composed using Root folder and subfolder names.

Icon	Name	Data Type	Max Length (Bytes)	Description
	path_key	bigint	8	Unique key.
	root_folder_id	nchar(40)	80	Root folder ID from the <code>IRootFolder.id</code> parameter in <code>IEdit</code> calls.
	full_path_wo_closest	nvarchar(1024)	2048	Full folder path including subfolders from the <code>IFolder.DisplayName</code> parameters in <code>IEdit</code> calls. The path is without the closest subfolder in the following format: Root\Subfolder\SubSubfolder
	path_closest_subfolder	nvarchar(255)	510	Closest subfolder name from the <code>IFolder.DisplayName</code> parameters in <code>IEdit</code> calls.
	full_path	nvarchar(1279)	2558	Natural key composed from <code>full_path_wo_closest</code> + <code>path_closest_subfolder</code> .
	dt_last_access	datetime	8	When a document being processed by Reporting belongs to a <code>[path_dim]</code> record, this record's <code>[dt_last_access]</code> is updated.
	etl_job_key	int	4	Used internally. Points to the last session that changed the entry.

reject_note_dim




Reporting server adds a record to this table during ETL 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. <code>RejectNote</code> parameter in the <code>RejectDocument</code> or <code>RejectPage</code> calls. The reject note is truncated if it is longer than 255 symbols.
	etl_job_key	int	4	Used internally. Points to the last session that changed the entry.

station_dim




This table holds information about KC (Tungsten Capture) stations that provided information. If this information is not available or action is performed on the server, provides server information.

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

Icon	Name	Data Type	Max Length (Bytes)	Description
	station_key	int	4	Unique key.
	station_name	nvarchar(255)	510	Station name from <code>ISessionInfo.Station</code> .
	site_id	int	4	Site ID from <code>ISessionInfo.SiteId</code> . Always equals 0 for TotalAgility.
	station_name_site_id	nvarchar(300)	600	Natural key. It is the combination of the station name and site ID. Used internally.
	site_name	nvarchar(255)	510	Site name from <code>ISessionInfo.SiteName</code> .
	dt_last_change	datetime	8	Used internally. Points to the last changed date and time.
	etl_job_key	int	4	Used internally. Points to the last session that changed the entry.



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. Points to the last session that changed the entry.

tsf_class_dim



Reporting server adds a record to this table during ETL when it encounters a new Tungsten Transformation class name (TotalAgility document type) 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	Tungsten Transformation class name from <code>IDocument.TransformationClass</code> . TotalAgility extraction group type name.

Icon	Name	Data Type	Max Length (Bytes)	Description
	ta_document_type_id	nvarchar(255)	510	TotalAgility document type ID. TotalAgility extraction group ID.
	ta_document_group_name	nvarchar(255)	510	TotalAgility document type name. TotalAgility classification group name.
	ta_document_group_version	nvarchar(255)	510	TotalAgility document group version.
	ta_document_group_id	nvarchar(255)	510	TotalAgility document group ID. TotalAgility classification group ID.
	ta_document_group_cat_key	bigint	510	References the category for the document group.
	class_group_version	nvarchar(768)	1536	Used internally. Natural key composed from <code>tsf_class</code> + <code>ta_document_group_name</code> + <code>ta_document_group_version</code> .
	product_key	int	4	Foreign key to <code>product_dim</code> .
	dt_last_change	datetime		The time of the latest change for this record.
	etl_job_key	int	4	Used internally. Points to the last session that changed the entry.




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 <code>ta_categories_dim</code> .
	classification_group_id_version	nvarchar(512)	1024	Natural key composed from <code>classification_group_id</code> + <code>classification_group_version</code> .
	dt_last_change	datetime		Time of the latest record change.
	etl_job_key	int	4	Used internally. Points to the last session that changed the entry.

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.
	user_logon_name	nvarchar(255)	510	User ID from ISessionInfo.UserId.
	user_fullname	nvarchar(255)	510	User's full name from ISessionInfo.UserName.
	dt_last_change	datetime	8	Used internally. Points to the last changed timestamp.
	user_type	int	4	Always equals 2 for the TotalAgility entries.
	etl_job_key	int	4	Used internally. Points to the last session that changed the entry.
	logon_name_type	nvarchar(300)	600	Used internally. Natural key. It is composed of user_logon_name + user_type.

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 Capture Client 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.

`batch_sess_snapshot_fact`


This table contains one record for each `IBatchSession.Close` call. In TotalAgility, it is each activity completed or canceled, or each SDK call completed outside the Capture Client forms.

Icon	Name	Data Type	Max Length (Bytes)	Description
	<code>batch_sess_snapshot_key</code>	bigint	8	Unique key.
	<code>batch_sess_id</code>	nvarchar(255)	510	Used internally. Foreign key to staging database table.
	<code>mod_key</code>	int	4	Module where the session occurred. Foreign key to <code>mod_dim</code> .
	<code>station_key</code>	int	4	Station where the session occurred. Foreign key to <code>station_dim</code> .
	<code>user_key</code>	int	4	User who initiated the session. Foreign key to <code>user_dim</code> .
	<code>batch_key</code>	bigint	8	Batch (Tungsten TotalAgility root folder) associated with the finished session. Foreign key to <code>batch_dim</code> .
	<code>start_date_key</code>	int	4	Date when the batch session started. Foreign key to <code>date_dim</code> .
	<code>start_time_key</code>	int	4	Time when the batch session started. Foreign key to <code>time_dim</code> .

Icon	Name	Data Type	Max Length (Bytes)	Description												
	end_date_key	int	4	Date when the batch session closed. Foreign key to <code>date_dim</code> .												
	end_time_key	int	4	Time when the batch session closed. Foreign key to <code>time_dim</code> .												
	dt_end_datetime	datetime	8	Full date and time of the batch session close call.												
	session_type	int	4	<div>Session type (a bit field) from <code>ISessionType</code>.</div> <table><tr><td>1</td><td>Recognition</td></tr><tr><td>2</td><td>Validation</td></tr><tr><td>4</td><td>Classification</td></tr><tr><td>8</td><td>Tungsten Transformation Correction</td></tr><tr><td>16</td><td>Tungsten Transformation Document Review</td></tr></table> <div>For example, a value of 5 means this session does recognition (1) and classification (4).</div>	1	Recognition	2	Validation	4	Classification	8	Tungsten Transformation Correction	16	Tungsten Transformation Document Review		
1	Recognition															
2	Validation															
4	Classification															
8	Tungsten Transformation Correction															
16	Tungsten Transformation Document Review															
	is_attended_sess	bit	1	1 if this is an attended session from <code>ISessionType.IsAttended</code> .												
	batch_state	int	4	<div>Resulting batch status from <code>IBatchSession.Close</code>. The valid batch state values are:</div> <table><tr><th>State</th><th>Value</th><th>Description</th></tr><tr><td>Ready</td><td>2</td><td>Ready for the next module.</td></tr><tr><td>Error</td><td>32</td><td>Batch is in error state.</td></tr><tr><td>Deleted</td><td>256</td><td>Batch was deleted in this session.</td></tr></table>	State	Value	Description	Ready	2	Ready for the next module.	Error	32	Batch is in error state.	Deleted	256	Batch was deleted in this session.
State	Value	Description														
Ready	2	Ready for the next module.														
Error	32	Batch is in error state.														
Deleted	256	Batch was deleted in this session.														
	sess_duration_sec	int	4	<div>Session duration in seconds between:</div> <ul style="list-style-type: none"><code>ISession.OpenBatch</code> and <code>IBatchSession.Close</code> <div>OR</div> <ul style="list-style-type: none"><code>ISession.CreateBatch</code> and <code>IBatchSession.Close</code>												

Icon	Name	Data Type	Max Length (Bytes)	Description
	docs_created_num	int	4	<p>Number of documents created in this session.</p> <p>Count of the following calls:</p> <ul style="list-style-type: none"> • IEdit.CopyDocument • IEdit.CreateDocument • IEdit.SplitDocument
	docs_deleted_num	int	4	<p>Number of documents deleted in this session.</p> <p>Count of the following calls:</p> <ul style="list-style-type: none"> • IEdit.DeleteDocument • IEdit.MergeDocument
	docs_compl_num	int	4	<p>Number of documents completed in this session.</p> <p>Count of documents with <code>IsCompleted = true</code> provided by the <code>IBatchSession.Close</code> call.</p>
	pages_scanned_num	int	4	<p>Number of pages scanned in this session.</p> <p>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.</p>
	pages_replaced_num	int	4	<p>Number of pages replaced in this session.</p> <p>Count of the <code>IEdit.ReplacePage</code> calls.</p>
	pages_deleted_num	int	4	<p>Number of pages deleted in this session.</p> <p>Count of the <code>IEdit.DeletePage</code> calls, and the count of <code>DeletedPages</code> provided in the <code>IEdit.DeleteDocument</code> call.</p>
	key_strok_num	int	4	<p>Number of keystrokes reported in this session.</p> <p>Summarizes keystroke information from each document provided in the <code>IBatchSession.Close</code> calls.</p> <p>If a document contains field-level keystroke information (<code>IField.KeyStrokes</code>), the document level keystrokes (<code>IDocumentPerformance.KeyStrokes</code>) are ignored.</p> <p>Assumption is that keystrokes are reported either per field or per document, but not on both levels.</p>


Icon	Name	Data Type	Max Length (Bytes)	Description
	conf_classes_changed_num	int	4	Number of confident Tungsten Transformation classes changed in this session. Count of the <code>IEdit.ChangeConfidentClass</code> calls.
	sugg_classes_accepted_num	int	4	The number of suggested Tungsten Transformation classes accepted in this session. Count of the <code>IEdit.AcceptSuggestedClass</code> calls.
	sugg_classes_changed_num	int	4	The number of suggested Tungsten Transformation classes changed in this session. Count of the <code>IEdit.ChangeSuggestedClass</code> calls.
	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. Deprecated and will be deleted in further releases.
	folders_merged_num	int	4	Not used. Deprecated and will be deleted in further releases.
	folders_created_num	int	4	Not used. Deprecated and will be deleted in further releases.
	folders_deleted_num	int	4	Not used. Deprecated and will be deleted in further releases.
	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.

Icon	Name	Data Type	Max Length (Bytes)	Description
	batch_rule_problem_num	int	4	Number of batch rule problems. Count of IRules.BatchRuleProblems from the IBatchSession.StartDocumentReview call.
	doc_rule_failure_num	int	4	Number of document rule failures. Count of IRules.DocumentRuleFailures from the IBatchSession.StartDocumentReview call.
	doc_rule_problem_num	int	4	Number of document rule problems. Count of IRules.DocumentRuleProblems from the IBatchSession.StartDocumentReview call.
	folder_rule_failure_num	int	4	Number of folder rule failures. Count of IRules.FolderRuleFailures from the IBatchSession.StartDocumentReview call.
	folder_rule_problem_num	int	4	Number of folder rule problems. Count of IRules.FolderRuleProblems from the IBatchSession.StartDocumentReview call.
	docs_num	int	4	Number of documents provided in the IBatchSession.Close call.
	pages_num	int	4	Total number of pages provided in the IBatchSession.Close call.
	ms_in_class_sep	int	4	Milliseconds spent in classification or separation during this session (IBatchSession.TimeInClassSep). This only applies to Tungsten Transformation.
	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 the ta_classification_groups table.
	etl_job_key	int	4	Used internally. Points to the last session that changed the entry.

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.
	batch_sess_snapshot_key	bigint	8	Batch session snapshot. 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 IBatchSession.Close was called.
	end_time_key	int	4	Time of the day when IBatchSession.Close was called.
	dt_end_datetime	datetime	8	Date and time of document processing in SQL DateTime format.
	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 (IField.KeyStrokes), the document level keystrokes (IDocumentPerformance.KeyStrokes) are ignored.
	ms_in_ocr	int	4	Milliseconds spent on OCR from IDocumentPerformance.TimeInOcr.
	ms_in_extr	int	4	Milliseconds spent on extraction from IDocumentPerformance.TimeInExtraction
	ms_in_class	int	4	Milliseconds spent on classification from IDocumentPerformance.TimeInClassification



Icon	Name	Data Type	Max Length (Bytes)	Description
	doc_sess_duration_ms	int	4	Total milliseconds spent processing this document from <code>IDocumentPerformance.TimeSpent</code>
	is_confly_classified	bit	1	1 if classification session and document is confidently classified. <code>IDocument.IsConfident</code>
	class_confidence_perc	int	4	The classification confidence in percent (only in the classification session) from <code>IDocument.Confidence</code>
	page_num	int	4	Number of elements in the <code>IDocument.Pages</code> list.
	field_num	int	4	Applies only to modules providing field-level information. Number of elements in the <code>IDocument.Fields</code> list.
	etl_job_key	int	4	Used internally. Points to the last session that changed the entry.

Accumulative fact tables


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

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 the last <code>IBatchSession.Close</code> call.
	pages_num	int	4	Number of pages from the 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 batch_sess_snapshot_fact .

Icon	Name	Data Type	Max Length (Bytes)	Description
	docs_created_num	int	4	Summarizes information from batch_sess_snapshot_fact .
	docs_deleted_num	int	4	Summarizes information from batch_sess_snapshot_fact .
	docs_compl_num	int	4	Summarizes information from batch_sess_snapshot_fact .
	pages_scanned_num	int	4	Summarizes information from batch_sess_snapshot_fact .
	pages_replaced_num	int	4	Summarizes information from batch_sess_snapshot_fact .
	pages_deleted_num	int	4	Summarizes information from batch_sess_snapshot_fact .
	key_strok_num	int	4	Summarizes information from batch_sess_snapshot_fact .
	conf_classes_changed_num	int	4	Summarizes information from batch_sess_snapshot_fact .
	sugg_classes_accepted_num	int	4	Summarizes information from batch_sess_snapshot_fact .
	sugg_classes_changed_num	int	4	Summarizes information from batch_sess_snapshot_fact .
	corr_split_points_num	int	4	Summarizes information from batch_sess_snapshot_fact .
	wrong_split_points_num	int	4	Summarizes information from batch_sess_snapshot_fact .
	missed_split_points_num	int	4	Summarizes information from batch_sess_snapshot_fact .
	folders_split_num	int	4	Not used. Deprecated and will be deleted in further releases.
	folders_merged_num	int	4	Not used. Deprecated and will be deleted in further releases.
	folders_created_num	int	4	Not used. Deprecated and will be deleted in further releases.
	folders_deleted_num	int	4	Not used. Deprecated and will be deleted in further releases.
	docs_unclassified_num	int	4	Summarizes information from batch_sess_snapshot_fact .
	batch_rule_failure_num	int	4	Summarizes information from batch_sess_snapshot_fact .
	batch_rule_problem_num	int	4	Summarizes information from batch_sess_snapshot_fact .

Icon	Name	Data Type	Max Length (Bytes)	Description
	doc_rule_failure_num	int	4	Summarizes information from batch_sess_snapshot_fact .
	doc_rule_problem_num	int	4	Summarizes information from batch_sess_snapshot_fact .
	folder_rule_failure_num	int	4	Summarizes information from batch_sess_snapshot_fact .
	folder_rule_problem_num	int	4	Summarizes information from batch_sess_snapshot_fact .
	etl_job_key	int	4	Used internally.

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 <code>batch_dim</code> .
	doc_key	bigint	8	Document information. Foreign key to <code>doc_dim</code> .
	ms_in_ocr	int	4	Summarizes information from <code>doc_sess_snapshot_fact</code> .
	ms_in_extr	int	4	Summarizes information from <code>doc_sess_snapshot_fact</code> .
	ms_in_class	int	4	Summarizes information from <code>doc_sess_snapshot_fact</code> .
	key_strok_num	int	4	Summarizes information from <code>doc_sess_snapshot_fact</code> .
	page_num	int	4	<code>page_num</code> from the last <code>doc_sess_snapshot_fact</code> record.
	field_num	int	4	<code>field_num</code> from the last <code>doc_sess_snapshot_fact</code> record.
	is_confly_classified	bit	1	Record of last classification session from <code>doc_sess_snapshot_fact</code> .
	class_confidence_per c	int	4	Record of last classification session from <code>doc_sess_snapshot_fact</code> .
	etl_job_key	int	4	Used internally. Points to the last session that changed the entry.

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. When document loses the field due to reclassification or rows being removed from a table field, the records from this table are deleted.

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 the last recognition session.
	dt_last_valid	datetime	8	Time of the last validation session.
	dt_last_correc	datetime	8	Time of the last correction session.
	dt_last_review	datetime	8	Time of the last document review session.
	dt_last_class	datetime	8	Time of the last classification session.
	dt_last_sess	datetime	8	Time of the last IBatchSession.Close with information about this field.
	field_tbl_index	int	4	Table index from IField.RowId if this is a table field.
	field_recog_status_key	int	4	Field recognition status. This field is initialized to 5. In the validation session, the value is set according to IField.IsValid and IField.IsChanged. <ul style="list-style-type: none"> • A field is valid if IField.IsValid is true. • A field is correct if IField.IsChanged is false. Foreign key to field_recog_status_dim.





Icon	Name	Data Type	Max Length (Bytes)	Description
	key_strok_num	int	4	Total keystrokes into this field. Sum of <code>IField.KeyStrokes</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	Field recognition confidence. <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> .
	chars_validated_num	int	4	Number of characters after validation session. Length of <code>IField.Value</code> from the last validation session.
	etl_job_key	int	4	Used internally. Points to the last session that changed the entry.
	is_sys_extracted	bit	1	Value from <code>IField.IsSystemExtracted</code> . 1 if document is system classified.
	extr_batch_sess_key	int	4	Last extraction batch session key or the session where the field was changed by the system. Foreign key to <code>batch_sess_snapshot_fact</code> . Inherited on document split with field being copied.
	extr_manual_sessions_key	int	4	Last batch session key where the field was manually changed. Foreign key to <code>batch_sess_snapshot_fact</code> . Inherited on document split with field being copied.

Other fact tables

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.




It is not used by TotalAgility. It is deprecated and will be deleted in further releases.

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 from <code>IBatchField.Value</code> .
	etl_job_key	int	4	Used internally. Points to the last session that changed the entry.

field_changes_fact

This table contains all changes that are done manually in the fields. It is only populated if module provide this information on batch session complete events.










Icon	Name	Data Type	Max Length (Bytes)	Description
	object_audit_key	bigint	8	Key to [object_audit_fact] table entry that represents manual fields change event. (The [object_action_key] value for it equals 60001).
	doc_sess_snapshot_key	bigint	8	Key to document session. It is calculated from <code>IDocument.Id</code> parameter and <code>SessionId</code> parameter in <code>IEdit</code> calls.
	field_new_value	nvarchar(1024)	2048	String representation of the new value of the field that was assigned with the change.
	field_old_value	nvarchar(1024)	2048	String representation of the old value of the field before the new one was assigned with the change.
	etl_job_key	int	4	Used internally. Points to the last session that changed the entry.







Icon	Name	Data Type	Max Length (Bytes)	Description
	field_change_key	bigint	8	Unique key.
	field_key	bigint	8	Key to the [field_dim] entry that represents the field.
	field_column_key	bigint	8	Key to the [field_column_dim] entry that represents the column in table fields.
	field_tbl_index	int	4	Number of rows in the table field.

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.
	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> .
	dt_action_time	datetime	8	Date and time of event in the SQL DateTime format.
	user_key	int	4	User who initiated the event. Foreign key to <code>user_dim</code> .
	mod_key	int	4	Module that produced the event. Foreign key to <code>mod_dim</code> .
	station_key	int	4	Station where the event happened. Foreign key to <code>station_dim</code> .

Icon	Name	Data Type	Max Length (Bytes)	Description
	machine_key	int	4	Machine that reported the event. 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 from IEdit.IsInteractive.
	sequence_num	int	4	Sequential action number within the session.
	comments	nvarchar(255)	510	Event comment. For a split event, it contains the range of split pages.
	etl_job_key	int	4	Used internally. Points to the last session that changed the entry.
	event_data_key	uniqueidentifier	16	Additional event data. Foreign key to event_data_dim.