

TIBCO ActiveMatrix® BPM Event Collector Schema Reference

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- TIBCO ActiveMatrix BPM SOA Concepts
- TIBCO ActiveMatrix BPM Concepts
- TIBCO ActiveMatrix BPM Developer's Guide
- TIBCO ActiveMatrix BPM Web Client Developer's Guide
- TIBCO ActiveMatrix BPM Tutorials
- TIBCO ActiveMatrix BPM Business Data Services Developer Guide
- TIBCO ActiveMatrix BPM Case Data User Guide
- TIBCO ActiveMatrix BPM Event Collector Schema Reference
- TIBCO ActiveMatrix BPM - Integration with Content Management Systems
- TIBCO ActiveMatrix BPM SOA Composite Development
- TIBCO ActiveMatrix BPM Java Component Development
- TIBCO ActiveMatrix BPM Mediation Component Development
- TIBCO ActiveMatrix BPM Mediation API Reference
- TIBCO ActiveMatrix BPM WebApp Component Development
- TIBCO ActiveMatrix BPM Administration
- TIBCO ActiveMatrix BPM Performance Tuning Guide
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- TIBCO ActiveMatrix BPM SOA Development Tutorials
- TIBCO ActiveMatrix BPM Client Application Management Guide
- TIBCO ActiveMatrix BPM Client Application Developer's Guide
- TIBCO Openspace User's Guide
- TIBCO Openspace Customization Guide
- TIBCO ActiveMatrix BPM Organization Browser User's Guide (Openspace)
- TIBCO ActiveMatrix BPM Organization Browser User's Guide (Workspace)

- TIBCO ActiveMatrix BPM Spotfire Visualizations
- TIBCO Workspace User's Guide
- TIBCO Workspace Configuration and Customization
- TIBCO Workspace Components Developer Guide
- TIBCO ActiveMatrix BPM Troubleshooting Guide
- TIBCO ActiveMatrix BPM Deployment
- TIBCO ActiveMatrix BPM Hawk Plug-in User's Guide
- TIBCO ActiveMatrix BPM Installation: Developer Server
- TIBCO ActiveMatrix BPM Installation and Configuration
- TIBCO ActiveMatrix BPM Log Viewer
- TIBCO ActiveMatrix BPM Single Sign-On
- Using TIBCO JasperReports for ActiveMatrix BPM

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Event Collector Overview

Event Collector is one of the components of TIBCO ActiveMatrix BPM. It collects and correlates data on business process events.

External services can access the data in the central event database either by using the query API supplied, or by directly querying the database tables and views.

In order to facilitate direct read access to the central event database, this guide describes the Event Collection database tables and views. As well as using this reference guide, you should study the database tables and views themselves to see how the schema has been implemented by the manufacturers of the different databases supported.



It is very important that any access to the Event Collector database tables and views must be **read-only**. You must not try to insert or modify any data in the tables or views. Any attempt to do so could have unforeseen consequences on the behavior of TIBCO ActiveMatrix BPM.



When modifying rules files (`ec-probe` and `ec-event`) note the following:

- Rules must have globally unique names.
- Check that channels are defined as `channel name='abcde' target='target' qualifier='abcde'` (the qualifier is optional).

For further information:

- On API access to the database, see *TIBCO ActiveMatrix BPM Developer's Guide*, in particular the chapter "Working with Events".
- On clearing event data from the database tables, see the chapter "Housekeeping Tasks" in *TIBCO ActiveMatrix BPM - BPM Administration*.
- For archiving event data, see the chapter "Archiving Messages" in *TIBCO ActiveMatrix BPM - BPM Administration*.
- On removing rows from the database tables after forcibly removing a process, see the description of the BPM database cleanup utility **bpm-db-cleanup** in *TIBCO ActiveMatrix BPM Troubleshooting Guide*.



This database schema may change from version to version of TIBCO ActiveMatrix BPM.

Private Database Tables

Some database tables in the Event Collector Schema are private. This means they are used internally by the Event Collector and you should not try to access them.

The following database tables in the Event Collector Schema are private.

- `ec_array_lookup`
- `ec_attribute_alias`
- `ec_event_int`
- `ec_event_trigger`
- `ec_managed_obj_lifecycle`
- `ec_purge`
- `ec_query`
- `ec_sequences`
- `ec_worker`
- `ec_schema_version`

ec_array table

The ec_array table holds information about event array attributes.

Column	Description
id	Unique identifier of an event array attribute. For example, the caseReference attribute, the value matches the case_reference column in the ec_event view .
idx	Index within the event array attribute.
value	Value of the event array attribute element.
additional	Reserved for internal use only.

ec_attribute table

The ec_attribute table holds information about attributes that have been registered with Event Collector.

Column	Description
attribute_pk	Primary key of this attribute.
component_id	Unique identifier of the attribute's parent component.
attribute_name	Name of this attribute.
attribute_category	Category of this attribute.
attribute_type	Type of this attribute. This must be one of the following: <ul style="list-style-type: none"> • INT • LONG • DOUBLE • BOOLEAN • STRING • DATE
attribute_flags	Specifies whether or not the attribute is an array. For example, <ul style="list-style-type: none"> • isArray=0. The attribute is a regular attribute. • isArray=1. The attribute is an array.

ec_component table

The ec_component table holds information about components that have been registered with Event Collector.

Column	Description
component_pk	Primary key of this component.
component_id	Unique identifier of this component.
component_name	SCA component name - for example, implementation.brm . This defaults to the component_id value if it is an internal (non-SCA) component.
component_type	SCA component type - for example, TIBCO-IT-SPRING or TIBCO-IT-WEBAPP .
component_class	Component Logging Meta Data (CLMD) class file used by this component.
description	Description of this component.
parent_id	Identifier of the parent component.
version	Deployed plug-in version number of this component.
revision	Deployed plug in revision number of this component.

ec_case_status table

The ec_case_status table holds information about case objects.

Column	Description
case_id	Unique identifier of the case class that is specified at designtime.
case_class	A case class is a template for a case object.
version	The version number of the case object.
case_state	A case state is a special type of attribute, available only on case classes, that can be used to uniquely identify a set of business-specific states that a case can be in.
last_modified	Timestamp when the case object was last modified.
case_data	The case object. The case data matches the structure of the case data defined in your business object model.
created_time	Date/time when the case object was created.
deleted_time	Date/time when the case object was deleted or null if the case object is not yet deleted.
case_duration	Total duration (in milliseconds) for the case object or null if the case object is not yet deleted.
user_id	Identifier of the organization model entity associated with the case object.
user_guid	GUID of the resource associated with this case object.
case_ref	Unique reference (or pointer) to a case object, created by ActiveMatrix BPM when the case object is created.
model_ver	The version number of the case model.
model_maj_ver	The major version number of the case model.

ec_environment table

The ec_environment table holds information about the ActiveMatrix BPM environment on which the events occurred.

Column	Description
id	Primary key for the environment.
environment_name	Name of the environment on which the event occurred.
node_name	Name of the node on which the event occurred.
host_name	Name of the host on which the event occurred.
host_address	Address of the host on which the event occurred.
application_name	The name of the deployed application.

ec_deployed_component table

The ec_deployed_component table holds information about applications that have been deployed to Event Collector.

Column	Description
name	The name of the component the application was deployed to.
app_name	The name of the deployed application.
major_vers	The major version of the deployed application.
minor_vers	The minor version of the deployed application.
micro_vers	The micro version of the deployed application.
qualifier	The qualifier of the deployed application.
state	The state of the deployed application.

ec_event view

The ec_event view holds information about events that have been registered with Event Collector.



ec_event was table in previous releases; it is now a view. See the documentation supplied with the database you are using for more information.

Column	Description
event_pk	Primary key of the event.
environment_id	The reference to the ec_environment table.
event_timestamp	Timestamp that the event occurred.
message_id	Identifier of the event. For example: messageId='BX_INSTANCE_PROCESS' See ec_message table .
generic_attr_id (not currently used)	Identifier of future generic attributes. If there are no generic attributes, the value is NULL.
correlation_id	The correlationID of the event. The correlationID is used with the contextID and parentContextID to determine the series of events that have occurred. The correlationID will be set when a service request is received from an external source. It remains the same for the duration of that request (including any child service calls made).
context_id	The contextID is used with the correlationID and parentContextID to determine the series of events that have occurred. The contextID is set to a new value for each new service call made in a chain of events - thus identifying the contents of a specific service call.
parent_context_id	The parentContextID is used with the correlationID and contextID to determine the series of events that have occurred. The parentContextID is set to a new value each time an internal (to a component) service call is made, and is set to the contextID of the calling service, thus identifying the parent of this service call.
managed_obj_id	Valid values for this attribute depend on the value of the messageCategory attribute - see the "Message Categories and Attribute Contents" section of the <i>TIBCO ActiveMatrix BPM Developer's Guide</i> .
principal_id	Unique identifier of the security principal associated with the event.
principal_name	Name of the security principal associated with the event.

Column	Description
managed_obj_name	Valid values for this attribute depend on the value of the messageCategory attribute - see the "Message Categories and Attribute Contents" section of the <i>TIBCO ActiveMatrix BPM Developer's Guide</i> .
managed_obj_version	Valid values for this attribute depend on the value of the messageCategory attribute - see the "Message Categories and Attribute Contents" section of the <i>TIBCO ActiveMatrix BPM Developer's Guide</i> .
managed_obj_type	Valid values for this attribute depend on the value of the messageCategory attribute - see the "Message Categories and Attribute Contents" section of the <i>TIBCO ActiveMatrix BPM Developer's Guide</i> .
managed_obj_status	Status of the managed object.
managed_obj_url	Valid values for this attribute depend on the value of the messageCategory attribute. See "Message Categories and Attribute Contents" in the <i>TIBCO ActiveMatrix BPM Developer's Guide</i> .
managed_obj_details	Valid values for this attribute depend on the value of the messageCategory attribute. See "Message Categories and Attribute Contents" in the <i>TIBCO ActiveMatrix BPM Developer's Guide</i> .
parent_obj_id	Valid values for this attribute depend on the value of the messageCategory attribute - see the "Message Categories and Attribute Contents" section of the <i>TIBCO ActiveMatrix BPM Developer's Guide</i> .
app_name	For BX (Process Services) events, this is the name of the application that generated the event. For BRM (Business Resource Management Services) events, this is the name of the process that generated the event.
wi_schedule_start	Scheduled start date of the work item associated with the event.
wi_schedule_end	Scheduled end date of the work item associated with the event.
wi_org_ent_list	The offer set for the work item. This is the GUID, entity type, and model version, separated by the tab character. Multiple entities are separated by the newline character.
wi_priority	The priority of the work item.
ext_message	Extended message for the message. This will generally contain more information for example, the failure reason for a failed activity.
retry_time	The time when the failed activity will be retried again.

Column	Description
resource_id (deprecated)	Identifier of the resource associated with the event.
resource_name (deprecated)	Name of the resource associated with the event.
entity_id (deprecated)	Identifier of the organization model entity associated with the event.
entity_type (deprecated)	<p>Type of the organization model entity associated with the event. This must be one of the following values:</p> <ul style="list-style-type: none"> • ORGANIZATION • ORGANIZATIONAL_UNIT • GROUP • POSITION • PRIVILEGE • CAPABILITY • RESOURCE • LOCATION • ORGANIZATION_TYPE • ORGANIZATIONAL_UNIT_TYPE • POSITION_TYPE • LOCATION_TYPE • ORGUNIT_RELATIONSHIP_TYPE • POSITION_HELD • ORGUNIT_RELATIONSHIP • ORGUNIT_FEATURE • POSITION_FEATURE • PARAMETER_DESCRIPTOR
channel_id (deprecated)	Unique identifier of the presentation channel associated with the event.
app_act_name	Name of the process activity associated with the event. For example, StartEvent, ScriptTask, DBTask, gateway, Success, Failure.
app_act_model_id	The design time identifier of the process activity: the unique identifier of the process activity associated with the event from the model.

Column	Description
app_act_instance_id	The runtime identifier of the process activity: the unique identifier of the process activity associated with the event from the activity instance.
sys_action_comp_id (deprecated)	Identifier of the component that requested a system action check. (Typically this is "BRM".)
sys_action_id (deprecated)	Unique identifier of the requested system action.
parent_proc_ins_id	Identifier of the parent process associated with the event.
parent_act_ins_id	Identifier of the parent activity associated with the event.
sub_proc_ins_id	Identifier of the sub-process associated with the event.
sub_proc_name	Name of the sub-process associated with the event.
process_priority	Priority of the process instance associated with the event.
module_name	Process package name of the deployed process associated with the event. (This is not set for BRM (Business Resource Management Services) events.)
prior_step_id	Identifier of the previous activity (to the one associated with the event).
sub_proc_ver	Version of the sub-process associated with the event.
case_reference	Identifier of array in ec_array table that holds the case references.
case_search_tag	Unique identifier of case data.
model_major_version	Major version number of a case data model.
model_version	Version number of a case model.
role_name	The role name given to a link between two case data classes.
attribute1	The integer value of custom work attribute 1 for the event.
attribute2 - attribute4	The text values of custom work attributes 2 to 4, respectively, for the event.
attribute5	The decimal value of custom work attribute 5 for the event.
attribute6 - attribute7	The date-time values of custom work attributes 6 and 7, respectively, for the event.
attribute8 - attribute14	The text value of custom work attributes 8 to 14, respectively, for the event.

Column	Description
attribute15	The integer value of custom work attribute 15 for the event.
attribute16 - attribute18	The decimal values of custom work attribute16 - attribute18, respectively, for the event.
attribute19 - attribute20	The date-time values of custom work attributes19 - attribute20, respectively, for the event.
attribute21 - attribute40	The text value of custom work attribute21- attribute40, respectively, for the event.

ec_event_attr table

The ec_event_attr table holds information about event attributes.

Column	Description
message_pk	Identifier of the event in the ec_event view . Maps directly to event_pk in the ec_event view .
attribute_value	The value of the attribute.
attribute_pk	Identifier of the attribute in the ec_attribute table .

ec_message table

The ec_message table holds information about messages that have been registered with Event Collector.

Column	Description
id	The primary key of the message.
component_id	Identifier of the component that generated the event.
message_id	Identifier of the event. For example: messageId='BX_INSTANCE_PROCESS'
message	Description of the event.
severity	Severity of the event. This must be one of the following: <ul style="list-style-type: none"> • TRACE • DEBUG • INFO • SERVICE • AUDIT • WARN • ERROR • FATAL
priority	Priority of the event. This must be one of the following: <ul style="list-style-type: none"> • LOW • MEDIUM • HIGH
message_category	Identifies the entity which was being operated on causing this event to be produced. See the "Message Categories and Attribute Contents" section of the <i>TIBCO ActiveMatrix BPM - BPM Developer's Guide</i> .

ec_pe_status table

The ec_pe_status table stores measures about process instances.

Column	Description
process_instance	Unique identifier of this process instance.
process_template	Name of the parent process template.
version	Version number of the parent process template.
priority	Priority of this process instance.
module_name	Module name related to the parent process template.
user_id	Resource associated with this process instance.
user_guid	GUID of the resource associated with this process instance.
status	Status of this process instance.
status_changed	Timestamp of the last status change of this process instance.
cur_activity	The task that is currently executing within the process.
cur_activity_start	The start time of the current task.
start_time	Start time of this process instance.
end_time	Completion time of this process instance.
exec_millis	Total time taken (in milliseconds) by this process instance between its start_time and end_time .
proc_tpl_pk	Unique identifier of the process template. It includes the process template name, module name, and module version. This is stored in the ec_proc_template table .
case_reference	Identifier of array in ec_array table that holds the case references.
attribute1	The integer value of custom work attribute 1 for this process instance.
attribute2 - attribute4	The text values of custom work attributes 2 to 4, respectively, for this process instance.
attribute5	The decimal value of custom work attribute 5 for this process instance.
attribute6 - attribute7	The date-time values of custom work attributes 6 and 7, respectively, for this process instance.

Column	Description
attribute8 - attribute 14	The text value of custom work attributes 8 to 14, respectively, for this process instance.
attribute15	The integer value of custom work attribute 15 for this process instance.
attribute16 - attribute18	The decimal values of custom work attribute16 - attribute18, respectively, for this process instance.
attribute19 - attribute20	The date-time values of custom work attributes19 - attribute20, respectively, for this process instance.
attribute21 - attribute40	The text value of custom work attribute21- attribute40, respectively, for this process instance.
type	The type of process. The data can be one of "SYNC", "ASYNC_DETACHED" or "ASYNC_ATTACHED".
inst_process_id	The numeric id of the process instance. This id can be used to join against the process engine tables.
parent_proc_ins_id	The instance id of the immediate parent. This will be null if there is no parent.
root_proc_ins_id	The root instance id. This will be the same as the PROCESS_INSTANCE column if there is no root instance.

ec_proc_template table

The ec_proc_template table holds information about process templates.

Column	Description
id	Primary key for the process template.
proc_tpl_name	Process template name.
module_name	Module name that the process template belongs to.
module_version	Version of the module.
proc_evt_pk	Primary key of the parent event for this instance of the process template. This maps to event_pk in the ec_event view.
pvm_ref	The process engine ID of the process template.
pvm_id	The numeric ID of the process instance. This ID can be used to join against the process engine tables.
app_name	The name of the deployed application.

ec_user_activity table

The ec_user_activity table holds information about user activity.

Column	Description
user_activity_id	Unique identifier for this user activity.
work_item_id	The work item associated with this user activity.
process_instance	Identifier of the parent process instance from which this work item was generated.
process_name	Identifier (name) of the process template from which the parent process instance was generated.
proc_tpl_pk	The reference to the process template, module name, and module version referenced in the ec_proc_template table .
activity_name	Name of the activity from which the work item was derived.
activity_ins_id	Instance identifier of the activity from which the work item was derived. This value is unique, even if the activity is executed multiple times, for example, as part of a loop.
org_ent_guids	The GUID of the QUERY.
org_ent_names	The RQL expression text.
org_ent_types	QUERY.
org_ent_vers	The comma-separated list of the organizational entity versions to which this work item was offered.
user_id	Resource associated with this work item.
user_guid	GUID of the resource associated with this work item.
action_start	Start date/time for this user activity.
action_end	End date/time for this user activity.
action_dur	Total duration (in milliseconds) for this user activity.
wi_status	Status of the work item.
user_action	The user action for this work item.

ec_wi_status table

The ec_wi_status table holds information about work items and their usage.

Column	Description
work_item_id	Unique identifier of this work item.
process_instance	Identifier of the parent process instance from which this work item was generated.
process_name	Identifier (name) of the process template from which the parent process instance was generated.
proc_tpl_pk	The reference to the process template, module name, and module version, referenced in the ec_proc_template table .
activity_name	Name of the activity from which the work item was derived.
activity_ins_id	Instance identifier of the activity from which the work item was derived. This value is unique even if the activity is executed multiple times - for example, as part of a loop.
org_ent_guids	The GUID of the QUERY.
org_ent_names	The RQL expression text.
org_ent_types	QUERY.
org_ent_vers	The comma-separated list of the organizational entity versions to which this work item was offered.
user_id	Resource associated with this work item.
user_guid	GUID of the resource associated with this work item.
comp_user_id	Resource completing this work item.
comp_user_guid	GUID of the resource completing this work item.
schedule_start	Scheduled start date/time (in UTC) for this work item.
schedule_end	Scheduled end date/time (in UTC) for this work item.
first_offer_time	First time that this work item was offered or allocated.
first_open_time	First time that this work item was opened.
last_open_time	Last time that this work item was opened.
completion_time	Completion time of this work item.

Column	Description
active_dur	Total duration (in milliseconds) that this work item was active - that is, the time between its first_offer_time and its completion_time , disregarding any intermediate states.
wait_dur	Total duration (in milliseconds) that this work item was waiting - that is, the time between its first_offer_time and its first_open_time .
action_dur	Total duration (in milliseconds) that this work item was being actioned - that is, the time between its first_open_time and its completion_time .
work_time_dur	Total working time duration (in milliseconds) for this work item, that is, the cumulative time between its first and last form submission activities.
status	Status of this work item.
status_changed	Time that the status of this work item was last changed.
priority	Priority of the work item.
attribute1	The integer value of custom work attribute 1 for this work item.
attribute2 - attribute4	The text values of custom work attributes 2 to 4, respectively, for this work item.
attribute5	The decimal value of custom work attribute 5 for this work item.
attribute6 - attribute7	The date-time values of custom work attributes 6 and 7, respectively, for this work item.
attribute8 - attribute 14	The text value of custom work attributes 8 to 14, respectively, for this work item.
generic_attr_id (currently unused in this release)	Identifier of future generic attributes. If there are no generic attributes, the value is NULL.
case_reference	Identifier of array in ec_array table that holds the case references.
attribute15	The integer value of custom work attribute 15 for the event.
attribute16 - attribute18	The decimal values of custom work attribute16 - attribute18, respectively, for the event.
attribute19 - attribute20	The date-time values of custom work attributes19 - attribute20, respectively, for the event.
attribute21 - attribute40	The text value of custom work attribute21- attribute40, respectively, for the event.

Column	Description
inst_process_id	The numeric id of the process instance. This id can be used to join against the process engine tables.
root_proc_ins_id	The root instance id. The root instance will be the same as the PROCESS_INSTANCE column if there is no root instance.
inst_task_id	The numeric id of the process engine activity. This id can be used to join against the process engine tables.

ec_pe_activity table

The ec_pe_activity table holds information about activities that have been registered by Event Collector.

Column	Description
activity_id	The activity id within the process.
activity_idx	The activity index, or order of activity execution, within the process.
process_instance	The parent process instance.
activity_name	The name of the activity.
activity_type	The type of the activity.
activity_status	Activity status.
activity_retry	The time when the activity will be retried again.
retry_count	The retry count for this activity.
activity_start	The start time for this activity.
activity_finish	The end time for this activity.
activity_notes	Activity notes which could include the reason for the failure of the task.