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## Event Modeling



## Introduction

As specific events occur in GSM and SCRM, their details are captured and recorded in a single database table. Clients can watch for events added to this table to trigger some custom actions.

Each event captured may include the following information:

- Event Type—The type of event that occurred (1: Create, 2: Save, 3: Workflow, 4: Copy)
- Event Source—What caused the event (New issue of a specification, workflow transition, etc.)
- Actor—User who performed the event
- Time—Date and time stamp of when the event happened
- Affected Object—Specification or object that was acted upon (Specification that was saved, specification that was copied, etc.)
- Related Object—Related object when appropriate (Workflow step, smart issue request, specification ID, etc.)
- Reason—Reason the action occurred when appropriate (Workflow comments, global succession reason for change, smart issue request that caused the change, etc.)

## Possible Uses

The events captured can be the catalyst to a third party system action (email notifications, data comparisons, etc.).

1. Every time an ingredient specification is created, the Ingredient Manager is notified by email.
2. Every time a new specification issue is created, a comparison will be performed. If any compliance data has changed, the facilities producing the product will be notified when opening the specification in custom portal.

## Technical Overview

A feature configuration setting `Common.Auditing.LifecycleEvents.Enabled` determines if events should be logged.

Events are captured in the `commonLifecycleEventLog` database table:

```
commonLifecycleEventLog {
  pkid char (40) not null unique,
  eventType int not null,           -- create, save, workflow, etc.
  eventSource varchar(50),         -- cause of the event
  timestampDateTaine not null,    -- time of change
  factor char(40) not null,        -- user making the changefkAffectedObject
  char(40) not null,              -- changed data object
  reason nvarchar(256),           -- user comments
  fkRelatedObject char(40)        -- optional participant
}
```

The event type codes include:

**Create—1**

**Save—2**

**Workflow—3**

**Copy—4**

TABLE OF LOGGED EVENTS

EVENT SOURCE	EVENT TYPE	AFFECTED OBJECT	RELATED
GSM.Editor	Save	Specification saved (pkid)	•
GSM.Clone	Create	New specification created (pkid)	
GSM.Clone	Copy	Specification copied (pkid)	New specification created (pkid)

GSM.NewIssue	Create	New specification Issued (pkid)	
GSM.NewIssue	Copy	Specification copied (pkid)	New specification created (pkid)
GSM.Workflow.Transition	Workflow	Specificationification transitioned (pkid)	Workflow Step (pkid)
GSM.Workflow.Resolve	Workflow	Resolved specification (pkid)	Workflow Step (pkid)
GSM.Workflow.Resolve	Save	Resolved specification (pkid)	
GSM.SmartIssue	Create	Specification created (pkid)	Smart Issue Request (pkid)
GSM.SmartIssue	Copy	Specification copied (pkid)	New specification created (pkid)
GSM.GlobalSuccession	Save	Host specification (pkid)	Specification that was replaced (pkid)
SCRM.Editor	Save	Specification object (pkid)	
SCRM.Clone	Create	Sourcing Approval copied (pkid)	
SCRM.Clone	Copy	Sourcing Approval copied (pkid)	Sourcing Approval created (pkid)
SCRM.Workflow.Transition	Workflow	Sourcing Approval transitioned (pkid)	Workflow Step (pkid)
SCRM.Workflow.Resolve	Workflow	Resolved specification (pkid)	Workflow Step (pkid)
SCRM.Workflow.Resolve	Save	Resolved specification (pkid)	



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