

SilkCentral® Issue Manager 2010 R2 Database Model

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Leading the Evolution™

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Introduction

About this manual

This guide offers an overview of SilkCentral[®] Issue Manager's database schema.

This chapter contains the following sections:

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Overview

This guide describes the SilkCentral Issue Manager database schema. It is designed to assist users in creating reports and accessing SilkCentral Issue Manager via its API.

1

Database Schema Model

Introduction

This guide offers an overview of SilkCentral Issue Manager’s database schema.

What you will learn

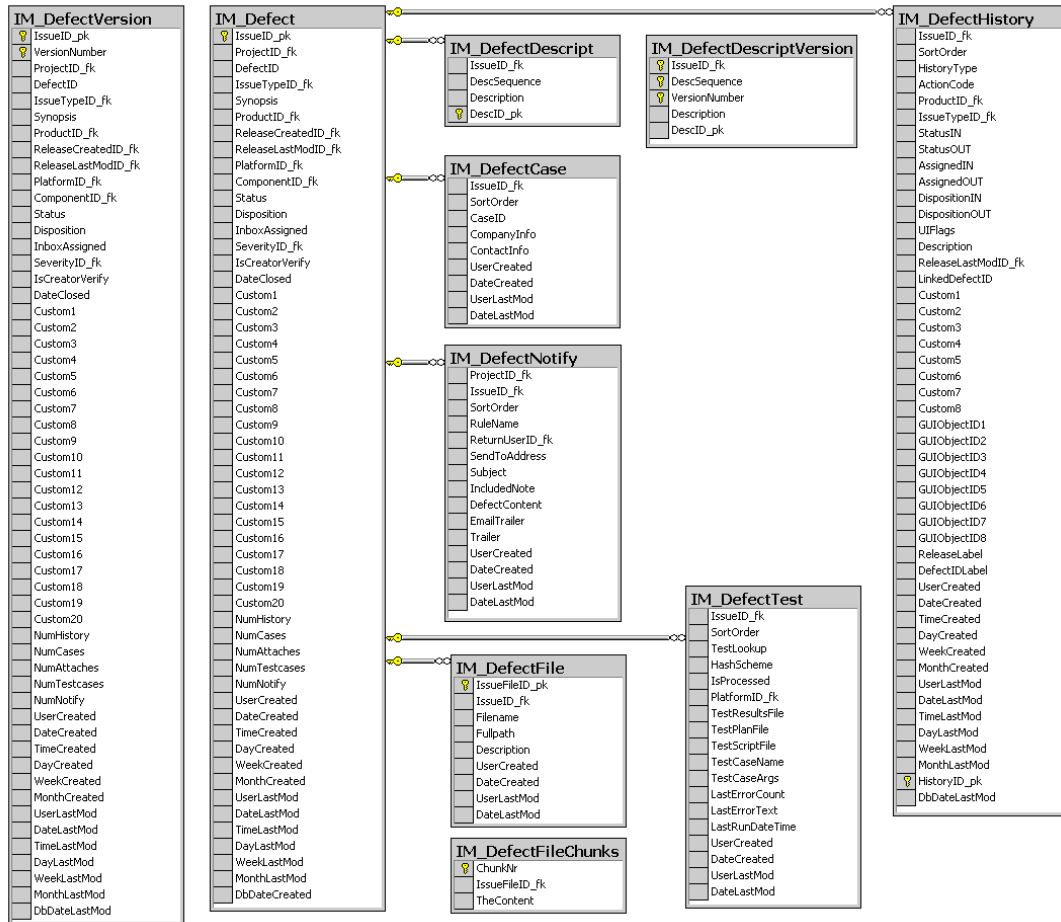
This chapter contains the following sections:

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Overview

This guide describes the SilkCentral Issue Manager database schema. It is useful for creating reports and accessing SilkCentral Issue Manager via its API.

Issues



IM_Defect - This is the base table for Issues. It contains the following data:

- Main issue fields
- Fields for custom tabs (Columns: Custom1 - Custom20)
- Current status and inbox that each issue is assigned to. The Inbox column is NULL when an issue is closed (any terminal state) and not assigned to an inbox.
- Creation and change dates; stored in multiple formats for varying query types. *DbDateCreated* is the system's timestamp (timestamp of the database itself) which may change more frequently than the

user's timestamp. It is used for system operations, for example updating caches. Usually it does not make sense to present this timestamp to the user.

IM_DefectVersion - Holds a copy of every version of the *IM_Defect* table. This table enables versioning, which is required for internal data warehouse purposes.

IM_DefectHistory - This table contains the history of all actions that are performed on issues. Each row represents a modification of an issue and lists the "before" status (StatusIN), "after" status (StatusOUT), action, inbox the issue was assigned to initially (AssignedIN), inbox the issue was reassigned to (AssignedOUT), disposition, note of the action, release information, linked defectIDs, values of possible custom fields, and creation date (when the action was performed).

IM_DefectDescript - Contains the description of an issue. Descriptions are split into 2,000-character sequences.

IM_DefectDescriptVersion - Holds a copy of every version of the *IM_DefectDescript* table. This table enables versioning, which is required for internal data warehouse purposes.

IM_DefectCase - Contains case data entered on the Customer tab

IM_DefectNotify - Contains notification triggers.

- *IssueID_fk* <> *NULL* means the trigger is assigned to a specific issue.
- *IssueID_fk* = *NULL* means the trigger is valid for all issues in the project (i.e., a system-wide trigger).

IM_DefectFile - Contains data from attached files. When entering Issue Manager files, the *Fullpath* column is empty and the file is stored in the *IM_DefectFileChunks* table. When importing an Issue Manager 3.3 database and the attached file can't be accessed during the import, the value of the *Fullpath* column is kept.

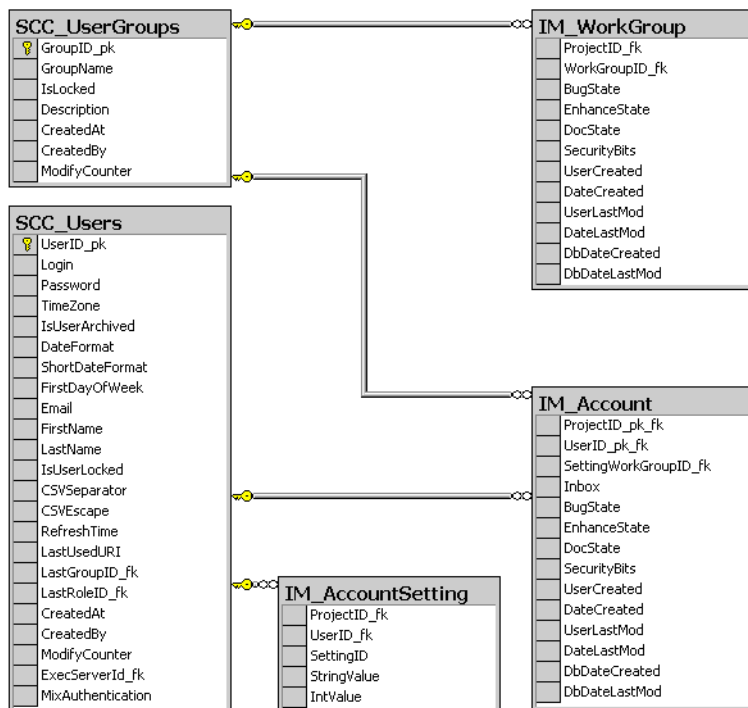
IM_DefectFileChunks - The content of the attached files.

IM_DefectTest - Contains data regarding testcases attached on the testcase tab.

Archived Issues

Tables for archived issues are copies of the tables described in the previous section, "Issues". When issues are archived, data is copied from *IM_Defect...tables* to *IM_Archive... tables*.

User and Group Data



SCC_UserGroups - Contains the available user groups.

SCC_Users - Contains data about the individual users that have been set up to use SilkCentral.

IM_Account - Contains Issue Manager-specific data for users who are assigned to a specific Issue Manager project. SettingWorkGroupID_fk is the ID of a group stored in IM_WorkGroup where default values for initial states are taken when a user has no specified values.

IM_AccountSetting - Contains data regarding the most recently entered values of a user and preferences such as "verify own issues" and "show global notifications in notification tab".

IM_WorkGroup - Contains the default initial states of groups that are assigned to a specific Issue Manager project.

Note *DateCreated* and *DateLastMod* fields hold the timestamps when the data set was created/changed the last time from a user perspective. These values are displayed in the GUI and are commonly used for display in reports. *DbDateCreated* and *DbDateLastMod* are the system's timestamps (timestamp of the database itself) which may change more frequently than the user's timestamps. They are used for system operations, for example updating caches. Usually it does not make sense to present these timestamps to the user.

GUI Configuration

Issue Manager offers some options for configuring the GUI (labels, custom fields, and permissions) for each project. These settings are stored in the following tables.

IM_CustomGui	
ProjectID_fk	The project this configuration is to be applied to.
GUIObjectID	The ID of the object in the GUI. 200 - 219 are the fields in the custom tab.
GUICaption	The label of the field.
GUIType	1 = Checkbox 2 = Textfield 3 = Dropdown 4 = Tab label
ValueListID_fk	When an object is of type "dropdown", this ID specifies the list that is to be used for the values.
InsertRole	The mode for the field when entering an issue. 2 = Optional 3 = Read-only 4 = Required
UpdateRole	The mode for the field when editing an issue. 2 = Optional 3 = Read-only 4 = Required

IM_CustomGui	
CaseMapping	Specifies how text field values are to be stored 0 = as entered 1 = Upper case 2 = Lower case
UserCreated	User who created the entry.
DateCreated	Date when the entry was created.
UserLastMod	Last user who modified the entry.
DateLastMod	Date when the entry was last modified.
DbDateCreated	Time when the entry was created on the DB server. This field is meant for internal use and may change more frequently than <i>DateCreated</i> .
DbDateLastMod	Time when the entry was modified on the DB server. This field is meant for internal use and may be change more frequently than <i>DateLastMod</i> .

This table contains settings that are to be applied when only certain groups are to be allowed to access certain fields. When a GuiObject has no entries in this table, access is not restricted to a specific group.

IM_CustomGuiPermission	
ProjectID_fk	The project this permission configuration is to be applied to.
GuiObjectID_fk	The ID of the object in the GUI.
PermissionType	The permission type: 1 = Insert 2 = Update
WorkGroupID_fk	The ID of the group that this permission is granted to.

Inboxes

IM_Inbox - This table contains the inboxes that exist in Issue Manager projects. Each inbox is assigned to a specific group.

IM_CustomInbox	
This table contains settings regarding inbox view (displayed columns, sorting, column header) for the users in a project.	
ProjectID_fk	The project this view is assigned to.
UserID_fk	NULL - Specifies that the default view on inboxes be applied for the project. Specific UserID - When a user has configured a custom view.
ColOrder	The position of the column.
ColSorting	The order by which columns are to be sorted: 0 = None 1 = Ascending 2 = Descending
ColLabel	The displayed column header.
ColName	The name of the column in the database.
UserCreated	
DateCreated	
UserLastMod	
DateLastMod	

Workflow Routing

IM_Product - Contains the default routing information for a product in a certain project. This routing can be refined using entries from the *IM_RoutingLogic* table.

When an issue changes state, this information is used to determine the inbox that the issue is to be routed to. Depending on the owner of the new workflow state,

the issue will be routed to the appropriate inbox listed in the columns QAInbox, DevInbox, ENHInbox, or DOCInbox.

IM_RoutingLogic	
ProjectID_fk	The project this routing is specified for.
ProductID_fk	The product this routing is specified for.
SortOrder	Specifies the sequence in which the entries are to be processed. The first matching entry is taken for routing the issue.
DefectTypeGroup	SOFT = BUG and ENHANCEMENT DOC = DOC-ISSUE
ReleaseMatch	At least one of these must be specified. The three ...MatchID_fk columns specify foreign keys. The other columns may contain query strings such as "Windows%"
PlatformMatch	
ComponentMatch	
ReleaseMatchID_fk	
PlatformMatchID_fk	
ComponentMatchID_fk	
QAInbox	Depending on the owner of the new workflow state, the issue will be routed to the inbox specified in these columns.
DEVInbox	
ENHInbox	
DOCInbox	
UserCreated	
DateCreated	
UserLastMod	
DateLastMod	

IM_WorkflowState - The possible states for an issue. Each state has an owner that is used to determine the IM_RoutingLogic or IM_Product table inbox that is to be used.

IM_WorkflowAction - Includes all actions that users can perform on an issue in a certain state. These entries specify the state that an issue will have after the action is performed, the fields that are to be shown in the Action dialog, the

ActionCode that is to be added to the History entry, the Action button label, and the tool tip.

IM_WorkflowActionPermission - Specifies the groups that are allowed to perform a certain action.

