



### **CIS SQL Field Configuration Manual**

This guide provides detailed information for configuring fields within the CIS Software SQL-based environment. It includes field properties, data types, and control types, along with usage guidance and practical examples.

### 1. Field Configuration Options

The table below outlines each available field option when creating or editing fields in CIS:

Field Option	Required	Description	Example
Field Name	Yes	Internal name of the field used in the database. Must be unique and follow naming conventions (e.g., no spaces or special characters).	inspection_date
Save Field in Table?	No	If checked, this field is persisted in the SQL database. If unchecked, it's used temporarily for UI logic only.	Unchecked for a temporary calculation field
Include In Export List?	No	Determines if this field will be included in export functions like CSV or Excel outputs.	Checked for 'part_number' to appear in export
Caption	Yes	Human-readable label shown on the UI form. This is what users see.	Inspection Date
Required	No	Makes the field mandatory before submission. Cannot be left blank.	Required for 'employee_id'
Is Unique?	No	Prevents duplicate entries in the field across records. Ideal for IDs or codes.	Unique for 'serial_number'
Active Flag	No	If unchecked, the field is hidden but retained in the form for possible reactivation.	Uncheck to temporarily disable a deprecated field





Field Option	Required	Description	Example
Control Type	Yes	Defines how the	DropDownList
		field appears on the	-
		UI (dropdown, text	
		box, date picker,	
		etc.).	
Data Type	Yes	Determines how	varchar for names,
		data is stored in SQL	int for age
		(e.g., text, int, date).	_
Max Length	No	Limits the number	255 for 'comments'
		of characters or	
		digits a user can	
		input (only for text-	
		based fields).	
Validation String	No	Regular expression	^\d{5}\$ for a 5-digit
		or rule for validating	postal code
		the field's input.	
Mask String	No	Display formatting	(999) 000-0000
		pattern that guides	
		user input,	
		commonly used for	
		phone numbers or	
		dates.	
Width	No	Specifies the width	200
		of the field in the	
		form layout, usually	
		in pixels.	
Grid Align	No	Sets alignment of	Right for numeric
_		field content within	values
		grids: None, Left,	
		Center, Right.	
Wrap Grid Cell	No	Toggles text	No for single-line
Data?		wrapping within	addresses
		grid cells. Useful for	
		multi-line text.	
Grid Format	No	Applies formatting	\$#,##0.00
		rules for displaying	
		values in the grid	
		(e.g., currency,	
		date).	
Attributes	No	Allows adding	onclick: return
		HTML/JavaScript	validate_form()
		event handlers like	
		onclick or onchange	
		for custom behavior.	





Field Option	Required	Description	Example
Priority	No	Determines order in which fields appear in the UI or processing logic. Lower numbers appear first.	1 for primary fields
Help Tooltip	No	Text shown when hovering over a help icon beside the field to guide the user.	Enter full legal name including middle name
Default Value	No	Pre-fills the field with a default value when the form loads.	Pending for 'status'
Event Name	No	Identifier for custom front-end logic tied to this field.	onUserTypeChange
Function Name	No	Back-end or JavaScript function name triggered by events.	calculateTax
Footer Template	No	Defines how the footer displays aggregated data (sum, average, etc.).	Sum: {{value}}

### 2. Data Types

Each field in the CIS system must have a data type that defines how the data is stored in the SQL database. Below are detailed descriptions of key data types:

#### bigint

Description: Stores very large whole numbers. Ideal for IDs or Unix timestamps.

When to Use: Use for system-generated IDs, timestamps, or ERP reference numbers.

Example: incident\_id = 982374509812345789

#### varchar(n)

Description: Stores variable-length text up to n characters. Saves space over fixed-length char.

When to Use: User-entered fields like names, codes, or short descriptions.

Example: employee\_name = 'Sandra McAllister'

# TOMS TOTAL QUALITY

### Field Configuration Cheat Sheet



### 3. Data Types - Full Reference

#### **Button**

Description: UI button to trigger an action or event.

When to Use: Used for form buttons like Submit, Approve.

Example: Button labeled 'Save' triggers saveForm()

**Cancel** 

Description: Cancels the current form or action.

When to Use: Use for cancel or back buttons.

Example: Cancel button returns to main menu

date

Description: Stores only the date (no time).

When to Use: For simple date input like birthdate or due date.

Example: 2025-12-15

datetime

Description: Stores both date and time.

When to Use: Timestamp fields or log events.

Example: 2025-12-15 14:30:00

decimal

Description: Precise decimal numbers.

When to Use: Monetary fields or scientific values.

Example: 199.99

**Delete** 

Description: System action type for deletions.

When to Use: Internal logic to mark field for deletion.

Example: Delete record button

**Edit** 

Description: System action type for editing.

When to Use: Used in dynamic UI for update functionality.

Example: Edit link in grid





Insert

Description: Insert record logic.

When to Use: Backend logic to add new entries.

Example: Insert new user

bigint

Description: Large integer type.

When to Use: Large unique IDs, timestamps.

Example: 9223372036854775807

int

Description: Standard integer value.

When to Use: Whole number values like count or age.

Example: 23

long

Description: Extended-range integer.

When to Use: Larger than int but smaller than bigint.

Example: 2147483648

Select

Description: Used in dropdowns or choices.

When to Use: Selection lists.

Example: Country: Canada

text

Description: Unbounded long text.

When to Use: Detailed instructions or comments.

Example: Long procedure notes

**Update** 

Description: System-level type for updating data.

When to Use: Used internally for update tracking.

Example: Update status





#### varchar

Description: Variable length character data.

When to Use: Short to medium string values.

Example: Product code

**Encrypted** 

Description: Secured string field.

When to Use: Password or secret keys.

Example: Encrypted password

Phone\Fax

Description: Phone or fax number.

When to Use: Contact details with formatting.

Example: (613) 555-1234

**Email** 

Description: Email address.

When to Use: User contact fields.

Example: user@example.com

Currency

Description: Formatted currency field.

When to Use: Prices, costs, or financials.

Example: \$1,299.00

SSN

Description: Social Security Number (US format).

When to Use: Employee tax IDs (USA only).

Example: 123-45-6789

**URL** 

Description: Website or hyperlink.

When to Use: External resource links.

Example: https://example.com





#### nText

Description: Unicode long text.

When to Use: Multilingual large text fields.

Example: 描述或注释

#### **nVarchar**

Description: Unicode variable-length text.

When to Use: Multilingual short-medium strings.

Example: Müller

### 4. Control Types - Full Reference

#### **ActionButton**

Description: Clickable button that triggers a defined action or function.

When to Use: Save, Submit, or special commands.

Example: Submit button

#### **ASPHidden**

Description: Stores a hidden value in the page form.

When to Use: Metadata tracking or background ID storage.

Example: Session ID

#### **ASPUpload**

Description: ASP.NET file upload control.

When to Use: Upload document or image.

Example: Upload file field

#### **ASPCalendar**

Description: ASP.NET date picker control.

When to Use: User-friendly calendar input.

Example: Select deadline

### **AutoCompleteFilter**

Description: Auto-suggest single-select.

When to Use: Search boxes with suggestions.





Example: Search City

AutoCompleteFilterMultipleSelect

Description: Auto-suggest multi-select.

When to Use: Tagging, skills selection.

Example: Select categories

Captcha

Description: Security image validation.

When to Use: Form submissions.

Example: I am not a robot

CheckBox

Description: Single checkbox (true/false).

When to Use: Flags and boolean toggles.

Example: Is Active?

CheckBoxList

Description: Multiple checkbox options.

When to Use: Select many options.

Example: Symptoms checklist

**DateControl** 

Description: Date picker with UI.

When to Use: Pick start/end dates.

Example: Start Date

DivCheckBoxList

Description: Styled checkbox group in div container.

When to Use: Custom styled multi-checks.

Example: Topic selection

DoPostBackLink

Description: Triggers form submission via link.

When to Use: UI links for actions.

Example: Submit via link





**DropDownList** 

Description: Single-selection dropdown list.

When to Use: Status, type, category selectors.

Example: Country: Canada

**ListBox** 

Description: Scrollable list box.

When to Use: Multi-selection with more visibility.

Example: Select files

CascadingDropDown

Description: Dropdown with parent-child dependencies.

When to Use: Location or hierarchical options.

Example: Country > State > City

**Color Picker** 

Description: UI tool to pick color value.

When to Use: Theming, tagging, or design fields.

Example: #FF0000

**HTMLEditor** 

Description: Rich text editor.

When to Use: Formatted content entry.

Example: Styled SOPs

**ImageButton** 

Description: Button with image/icon.

When to Use: In-grid or graphical UI.

Example: Edit icon

LinkButton

Description: Hyperlink acting as a button.

When to Use: Navigation or redirect.

Example: Go to Details





#### Literal

Description: Displays static HTML/text.

When to Use: Notes, read-only labels.

Example: Version: 1.0

Label

Description: Plain label text.

When to Use: Field headers or descriptions.

**Example: Part Description** 

**Password** 

Description: Masked password field.

When to Use: Login or secure entry.

Example: •••••

RadioButtonList

Description: Single-choice list using radio buttons.

When to Use: Choose one from small list.

Example: Satisfaction: Low / Medium / High

**TextArea** 

Description: Multi-line text box.

When to Use: Comments, notes, explanations.

Example: Write detailed feedback

**TextBox** 

Description: Single-line input box.

When to Use: Short text input.

Example: Enter name

**UpDown** 

Description: Numeric up/down control.

When to Use: Adjust quantities easily.

Example: Quantity: 3