

REPORT DEVELOPMENT - PARAMETERS

- The label/caption for all parameters comes from the "Prompt Text" of the parameter.
- If the Prompt Text has an asterisk the prompt is required.
- The default for blank string parameters is a "%"; this is the value Select will pass to the report. This also applies to Checklist and ComboBox controls. Note if all values in a Checklist are selected, a % is still passed.
- When date parameters are left blank the defaults are, starting date = "1/1/1753 00:00:00" and ending date = "12/31/9997 11:59:59". When using a range for dates you must use the minimum and maximum functions to get the values. This applies to any range value parameter.
- We do not support Time type parameters.
- Support for Currency type parameters has been added. They are decimal data types with a scale of 2 (not the "same as Number"). The Number type parameter is (still) an integer.
- When blank, Number is 0 for discrete, but -2,147,483,648 to 2,147,483,647 for range.
- When blank, Currency is 0.0 for discrete, but -79,228,162,514,264,337,593,543,950,335 to 79,228,162,514,264,337,593,543,950,335 for range.

Parameter Types

Type	Value passed when blank	Description/Notes
Checklist	'%'	<ul style="list-style-type: none"> - In the Crystal Parameter Properties, Value Options, set "Allow multiple values" to true. - Use the PARAMETER_VALUES parameter to set up the dynamic values that populate this control. - Previously known as Movelt type.
ComboBox	'%' or Defaulted Value	<ul style="list-style-type: none"> - Populate drop down by setting the PARAMETER_VALUES for a dynamic list or using the Value Options for a static list. - If using a static list, indicate the default value by placing "Default" in the Value Description.
Text	'%' or Defaulted Value	<ul style="list-style-type: none"> - Standard text parameter (Crystal's max for string parameters is 254 characters).
Checkbox	Defaulted Value	<ul style="list-style-type: none"> - Crystal Boolean parameter type. In the Parameter Properties, note the default value by placing "Default" in the Value Description
Date	"01/01/1753" "12/31/9997"	<ul style="list-style-type: none"> - In the Crystal Parameter Properties, set "Allow Range Values" = true to take advantage of using a min/max date. - When using ranged values you must use the minimum and maximum functions to get the values. - If a stored procedure has date parameters, they cannot use ranged values & must be two parameters for the start & end date. - Use the special tags to indicate which date is the beginning and ending date so the correct blank values will be passed to the report.
DateTime	"01/01/1753 00:00:00" "12/31/9997 11:59:59"	
Currency	0.00 -79,228,162,514,264,337,593,543,950,335 79,228,162,514,264,337,593,543,950,335	<ul style="list-style-type: none"> - Support for Currency types has been added. - If left blank, 0.00 is passed from program. - On a range parameter, min and max numbers are passed
Number Decimal	0.0 -79,228,162,514,264,337,593,543,950,335 79,228,162,514,264,337,593,543,950,335	<ul style="list-style-type: none"> - If left blank, 0.00 is passed from program. - On a range parameter, min and max numbers are passed

Parameters passed by program, not prompted when rendered

Parameter	Type	
@ProfileID	UNIQUEIDENTIFIER	Current Profile ID
@UserID	VARCHAR	Current User Name
@UserName	VARCHAR	Current User Name
@RootID#	INTEGER	RootId# (Order ID) integer
@ContextID#	INTEGER	Primary context Id# integer
@ContextID	UNIQUEIDENTIFIER	Primary context unique identifier
@CLIENTTIMEZONE	VARCHAR(50)	Time Zone of Client Machine
@ACTIVEPROFILETIMEZONE	VARCHAR(50)	Time Zone of Active Profile
@DOCREPORTID	UNIQUEIDENTIFIER	ID of Document/Report

Parameter Naming Tags

Tag	Allow range values=False	Allow range values=True		Prefix Suffix
	Single Date	Minimum Date	Maximum Date	
_F	First day of the month	First day of the month	Today	Suffix
_L	Last day of the month	Today	Last day of the month	Suffix
_T	Today	Today	Today	Suffix
_M	Last day of the month	First day of the month	Last day of the month	Suffix
_Y	Last day of the year	First day of the year	Last day of the year	Suffix
_B	Previous business day			Suffix
Begin_	Beginning date. When blank, 1/1/1753 00:00:00 is passed			Prefix
End_	Ending date. When blank, 12/31/9997 11:59:59 is passed			Prefix

Dynamic Default Values (new in Select v3.0)

A new dynamic defaults feature in v3.0 allows you to specify a SQL statement that is executed at runtime to calculate what the default value should be for another, targeted parameter. It is an extension of (not a replacement for) what you can already do statically to specify default values. When the report loads on the Crystal runtime tier, it will execute any statements to determine the default values.

A new special parameter called `PARAMETER_DEFAULTS` has been added, and it works the same way that the `PARAMETER_VALUES` one currently works. Each declaration consists of two lines in Crystal's parameter values list – the first is the name of another parameter, and the second is a SQL statement to execute at runtime.

Your statements generally need to return a single value that can be *parsed* into whatever data type the targeted parameter is. For example, if the target parameter is a Boolean, your statement needs to return "false" or "true". Or if the target is a String used in a list box control, your statement should return one of the values from the list of available values (which itself may be declared either statically or dynamically using `PARAMETER_VALUES`).

There is also support for range values. In this case, your statement must return *two* values (e.g. `SELECT x, y FROM...`) which will be parsed into the lower and upper range default values.