![integrify]

version 7

Form Scripting Reference Manual

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The Integrify form object, intForm, is the supported scripting object for accessing and working with an Integrify form created in the Form Designer. You can access all of the form fields (aka Questions) and layout objects via the intForm object. This Reference Manual provides a guide to all supported properties and methods available to a form developer for making truly powerful and intelligent Integrify forms.

NOTE: Integrify form fields have other properties and methods which may be discovered by a form developer while developing a form. Properties and methods not included in this Reference Manual _are not supported_ for form scripting, and their functionality may change, or be eliminated entirely, as part of any Integrify software release.

The same properties and methods are available for most Integrify form fields. Some fields types may have unique properties, due to the functionality provided by that field type. Some properties or methods may function slightly differently for some field types, again due to that field's specific functionality. Table 1 summarizes the availability and usage exceptions for each of the Integrify form field types.

TABLE 1. Property/Method Usage Summary

PROPERTY/METHOD	Short Text	Long Text	Select List	Checkboxes	Radio Buttons	Calendar	File Attachment	Contact Search	Search Box	Email	Number	Rich Text	Link	Time Zone	Password	Grid	Signature
FIELD/QUESTION TYPE Y indicates the property is valid for the field/question type, N indicates the property is not valid for the field/question type.																	
addRow	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Y	N
Answer	Y	8	5	Y	Y	4	2	1	Y	Y	9	Y	Y	Y	Y	7	Y
Answer initializes to/clears to: (⌀ indicates empty string)	null/⌀	null/⌀	null/null (5)	null/⌀	null/null	null/null	[ ]/[ ]	[ ]/[ ]	⌀ /⌀	null/⌀	null/null (9)	null/⌀	null/⌀	null/und	null/⌀	[ ]/[ ]	null/⌀
Choices (array of objects with Label and Value properties, also Selected property (t/f) for Checkbox)	N	N	Y	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N
class	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
ClientID	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
dbSettings (object with useDB (true/false); DbSourceLabelColumn, DbSourceValueColumn, searchTestValue) (Searchbox also has Name, mappings, propertyNameList)	N	N	N	Y	Y	N	N	N	Y	N	N	N	N	N	N	N	N

	Short Text	Long Text	Select List	Checkboxes	Radio Buttons	Calendar	File Attachment	Contact Search	Search Box	Email	Number	Rich Text	Link	Time Zone	Password	Grid	Signature
disabled (true/false) (initially undefined if not set; Password initializes to false)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
events (.onChange, .onBlur, .onFocus) NOTE: Any scripted onChange event will over-ride any Form Rule based on that question.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	10	Y	Y	Y	Y	Y
flex (Width %)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N
getRowObject	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Y	N
id	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
isdirty (true/false) (true if value of Answer is different than when the form was initialized)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Label	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
loaded (do we need this for grid?)																	
multiple	N	N	Y	N	N	N	6	6	N	N	N	N	N	N	N	N	N
multiChoiceAnswer	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N
originalAnswer	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N
QuestionType	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
readonly (true/false) (for most fields, initially undefined if not set to true)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
searchFilter (index 0 is guid, 1 is label/name)	N	N	N	N	N	N	N	Y	N	N	N	N	N	N	N	N	N
selectedValue (comma delimited)	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N
show (true/false)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

	Short Text	Long Text	Select List	Checkboxes	Radio Buttons	Calendar	File Attachment	Contact Search	Search Box	Email	Number	Rich Text	Link	Time Zone	Password	Grid	Signature
showDeleteButton (true/false)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Y	N
showDeleteColumn (true/false)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Y	N
showLabel (true/false)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Y	N
todaysDate (the current date from the server)	N	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N
validation (object) (not all validation for all types) max; maxMessage; min; minMessage; regEx; regExMessage; required; requiredMessage	Y	Y	Y	Y	Y	3	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y

1. For ContactSearch *Answer* is an Array. Within each item in the array is an object for the selected user(s) with the following properties: Email, ID, Name, SID, Title, UserName, r, selected, text. Answer is empty array if there is no selection.
2. File Attachment *Answer* is an array of File objects, each with attributes of file_key, lastModified, lastModifiedDate, name, size, text, type, webkitRelativePath. Answer is an empty array if no file has been selected.
3. Calendar type question *validation* is an object containing the following: futureDatesOnly (true/false), maxDate, mdDateFilter, minDate, required (true/false), requiredMessage
4. For Calendar type questions, *Answer* is null if no date has been entered/selected.
5. Select List fields that have no selection, or the selection has been cleared, can be either null or empty string, even for multi-selection type.
6. For File Attachment and Contact Search types, checking the "Allow Multiples" checkbox changes the Question Type, but for Select List type a *multiple* attribute is added and set to **true**.
7. For Grid questions, Answer is an Array. If no rows have been added, then Answer is an empty array. The array will contain one json object for each row, the names being the defined column names.
8. LongText is backslash encoded. Use standard backslash codes, such as \n for a carriage return, to include non-displayed control characters.
9. Number initializes and clears to null, unless a currency format is selected and then it initializes and clears to the value 0.
10. RichText field does not support the onFocus event.

Property and Method Detail of the intForm Field Types

Field Types: Short Text / Long Text / Number / Link / Email / Calendar

Property/Method	Description/Use	Read/Write
Answer	The value of the field (e.g. the answer to the question). For these field types the value is always a simple text value. Note that the empty value for these fields types is null when the field has never had a value. If a previous answer value has been cleared/removed, then the value is an empty string, except for Calendar, which is null, and Number with the Currency option used where it is 0 (zero).	RW
class	The CSS style class(es) applied to the field on the form (See section on Defining and Using Classes)	RW
ClientID	The ID of the html element on the form. This is the attribute that is used to reference any element on the form. The ClientID for a field can be changed on the configuration screen. It is recommended that the default long numeric ID is changed to something more meaningful, so it is easier to identify when scripting. The best time to do this is when the field is initially created. (See also: id)	R
disabled	Set to either true or false. If true, the field is disabled and cannot be selected or changed.	RW
events	Contains any script bound to the onFocus, onBlur, and onChange events of the field on the form. These events are emitted similar to the corresponding standard HTML events.	RW
flex	The width % applied to the field on the form. This value is in relation to the container that contains the field on the form. Not available for the calendar field type.	RW
id	The system-assigned field ID linked to the field (see also: ClientID)	R
isdirty	Indicates whether the value in the field has been changed since the form was loaded. Returns true if the value has been changed, false if it has not.	R
Label	The label text shown on the form for the field.	RW
loaded	Indicates the Question has initialized and any prefill data has been set. true/false	R
originalAnswer	The value of the field when the form initially loads.	R
QuestionType	ShortText, LongText, Number, Hyperlink, EmailAddress, Calendar	R
readonly	Set to either true or false. If true, the field can be selected but the value cannot be changed.	RW
show	Indicates whether the question field should be shown on the form (true/false)	RW
todaysDate	Available only for Calendar fields. Contains the current *server* date in the format MM/DD/YYYY. It can be useful for obtaining a date that is not dependent on a user's local system date.	R

validation	The validation values and messages used when a form submitted. They correspond to the Validation tab on the question's configuration screen. regExMessage – The message displayed when the regEx validation fails. regEx – The regEx expression to use validate the field value. Max – A maximum length value that is used to compare the field value against. maxMessage – The message displayed when the Max validation fails. Min – A minimum length value that is used to compare the field value against. minMessage – The message displayed when the Min validation fails. required (true/false) – Indicates whether the field is required. Setting this to true will also trigger the display of the required field indicator (*). requiredMessage – The message displayed when the required validation fails.	RW

Question Type: Select List

Answer	The *value* of the item selected in the list. Comma separated values if multiple answers are selected. If the field has no value it can be either null or an empty string. Note that this is a comma delimited list, so Answer values cannot contain commas.	RW
Choices	Array of objects containing the Label/Value pairs contained in the drop-down list. Note that when updating this list via script you need to only populate the Label and Value properties, the other properties are only used in Form Design.	RW
class	The style class(es) applied to the field on the form (See section on Defining and Using Classes)	RW
ClientID	The ID of the html element on the form	R
disabled	Set to either true or false. If true, the field is disabled and cannot be selected or changed.	RW
events	Contains any script bound to the onFocus, onBlur, and onChange events of the field on the form. These events are emitted similar to the corresponding standard HTML events.	RW
flex	The width % applied to the question on the form. This value is in relation to the container that contains the question field on the form.	RW
id	The system-assigned field ID linked to the field (see also: ClientID)	R
isdirty	Indicates whether the value in the field has been changed since the form was loaded. Returns true if the value has been changed, false if it has not.	R
Label	The label shown on the form for the question	RW
loaded	Indicates the Question has initialized and any prefill data has been set. true/false	R
multiple	Indicates whether multiple selections are allowed (true/false)	RW
multiChoiceAnswer	Array of value selected when multiple=true	
originalAnswer	The value of the field when the form initially loads.	R

QuestionType	DbSelectList	R
readonly	Set to either true or false. If true, the field can be selected but the value cannot be changed.	RW
show	Indicates whether the question field should be shown on the form (true/false)	RW
validation	The validation values and messages used when a form submitted. They correspond to the Validation tab on the question's configuration screen. required (true/false) – Indicates whether the field is required. Setting this to true will also trigger the display of the required field indicator (*). requiredMessage – The message displayed when the required validation fails.	RW

Question Type: Checkboxes

Answer	Comma-space separated list of the values of the selected checkboxes. If the field has no value it can be either null or an empty string. If you are setting the value of a checkbox within a script, then you must set both the Answer value and set the Selected attribute of the corresponding Choices. Note that this is a comma delimited list, so Answer values cannot contain commas	RW
Choices	An array of objects corresponding to the checkboxes. Each object contains the following: Label – the label of the individual checkbox Selected (true/false) – Indicates whether the checkbox is displayed as checked (true) or not checked (false). If the checkbox has never been checked then this attribute is undefined. Value – the value of the individual checkbox that is stored in Answer if the checkbox is selected Note that when updating this list via script you need to only populate the Label and Value properties, the other properties are only used in Form Design.	RW
class	The style class(es) applied to the field on the form (See section on Defining and Using Classes)	RW
ClientID	The ID of the html element on the form	R
columnOrRow	Indicates horizontal (row) or vertical (column) checkbox orientation	RW
disabled	Set to either true or false. If true, the field is disabled and cannot be selected or changed.	RW
events	Contains any script bound to the onFocus, onBlur, and onChange events of the field on the form. These events are emitted similar to the corresponding standard HTML events.	RW
flex	The width % applied to the question on the form. This value is in relation to the container that contains the question field on the form.	RW
id	The system-assigned field ID linked to the field (see also: ClientID)	R
isDirty	Indicates whether the value in the field has been changed since the form was loaded. Returns true if the value has been changed, false if it has not.	R
Label	The label shown on the form for the question	RW

loaded	Indicates the Question has initialized and any prefill data has been set. true/false	R
originalAnswer	The value of the field when the form initially loads.	R
QuestionType	DbCheckbox	R
readonly	Set to either true or false. If true, the field can be selected but the value cannot be changed.	RW
show	Indicates whether the question field should be shown on the form (true/false)	RW
validation	The validation values and messages used when a form submitted. They correspond to the Validation tab on the question's configuration screen. required (true/false) – Indicates whether the field is required. Setting this to true will also trigger the display of the required field indicator (*). requiredMessage – The message displayed when the required validation fails.	RW

Question Type: Radio Buttons

Answer	The value of the selected radio button. If no radio button is selected the value will be null.	RW
Choices	An array of objects corresponding to the radio buttons. Each object contains the following: Label – the label of the individual checkbox Value – the value of the individual checkbox that is stored in Answer if the checkbox is selected Note that when updating this list via script you need to only populate the Label and Value properties, the other properties are only used in Form Design.	RW
class	The style class(es) applied to the question on the form (See section on Defining and Using Classes)	RW
ClientID	The ID of the html element on the form	R
disabled	Set to either true or false. If true, the field is disabled and cannot be selected or changed.	RW
events	Contains any script bound to the onFocus, onBlur, and onChange events of the field on the form. These events are emitted similar to the corresponding standard HTML events.	RW
flex	The width % applied to the question on the form. This value is in relation to the container that contains the question field on the form.	RW
id	The system-assigned field ID linked to the field (see also: ClientID)	R
isDirty	Indicates whether the value in the field has been changed since the form was loaded. Returns true if the value has been changed, false if it has not.	R
Label	The label shown on the form for the question	RW
loaded	Indicates the Question has initialized and any prefill data has been set. true/false	R
originalAnswer	The value of the field when the form initially loads.	R
QuestionType	DbRadioButton	R
readonly	Set to either true or false. If true, the field can be selected but the value cannot be changed.	RW
show	Indicates whether the question field should be shown on the form (true/false)	RW

validation	The validation values and messages used when a form submitted. They correspond to the Validation tab on the question's configuration screen. required (true/false) – Indicates whether the field is required. Setting this to true will also trigger the display of the required field indicator (*). requiredMessage – The message displayed when the required validation fails.	RW

Question Type: File Attachment

Answer	An array of objects, one for each file attachment, with the following elements: file_key – a unique value assigned to the file attachment lastModifiedDate – the last modified date and time of the file name – the file name size – the size of the file text – the file name text displayed on the form type – the file type designator (e.g. image/jpeg)	RW
class	The style class(es) applied to the question on the form (See section on Defining and Using Classes)	RW
ClientID	The ID of the html element on the form (see also id)	R
disabled	Set to either true or false. If true, the field is disabled and cannot be selected or changed.	RW
events	Contains any script bound to the onFocus, onBlur, and onChange events of the field on the form. These events are emitted similar to the corresponding standard HTML events.	RW
flex	The width % applied to the question on the form. This value is in relation to the container that contains the question field on the form.	RW
id	The system-assigned field ID linked to the field (see also: ClientID)	R
isDirty	Indicates whether the value in the field has been changed since the form was loaded. Returns true if the value has been changed, false if it has not.	R
Label	The label shown on the form for the question	RW
loaded	Indicates the Question has initialized and any prefill data has been set. true/false	R
multiple	If true, selection of multiple file attachments is allowed, else false	RW
QuestionType	FileAttachment or MultiFileAttachment	R
readonly	Set to either true or false. If true, the field can be selected/file opened but the value cannot be changed.	RW
show	Indicates whether the question field should be shown on the form (true/false)	RW
validation	The validation values and messages used when a form submitted. They correspond to the Validation tab on the question's configuration screen.	RW

	requiredMessage – The message displayed when the Required validation fails.	

Question Type: Contact Search

Answer	An array of objects, one for each contact selected. Each object contains: Email – contacts email address ID – contact ID Name – the name from the contact profile SID – contact SID Title – the title of the user UserName – the Integrify user name text – the contact name displayed on the form	RW
class	The style class(es) applied to the question on the form (See section on Defining and Using Classes)	RW
ClientID	The ID of the html element on the form	R
disabled	Indicates whether the question field on the form is set to disabled (true/false)	RW
events	Contains any script for the onFocus, onBlur, and onChange events bound to the question field on the form.	RW
flex	The width % applied to the question on the form. This value is in relation to the container that contains the question field on the form.	RW
id	The system-assigned field ID linked to the field (see also: ClientID)	R
isDirty	Indicates whether the value in the field has been changed since the form was loaded. Returns true if the value has been changed, false if it has not.	R
Label	The label shown on the form for the question	RW
loaded	Indicates the Question has initialized and any prefill data has been set. true/false	R
originalAnswer	The value of the field when the form initially loads.	R
QuestionType	ContactSearch, MultiContactSearch	RW
searchFilter	An array containing the SID (0) and name (1) of the contact search group filter	RW
show	Indicates whether the question field should be shown on the form (true/false)	RW
validation	The validation values and messages used when a form submitted. They correspond to the Validation tab on the question's configuration screen. requiredMessage – The message displayed when the Required validation fails.	RW

Question Type: Search Box

Answer	The value of the selected item	RW
Choices	An array of Label/Value pairs that are available in the Search Box list (for non-db-derived results)	RW
class	The style class(es) applied to the question on the form (See section on Defining and Using Classes)	RW
ClientID	The ID of the html element on the form	R
dbSettings	An object containing the data source, query and mapping information. DbSourceLabelColumn—The column name from the db source to use as the Label DbSourceValueColumn—The column name from the db source to use as the Value hideSearchResultFields—List of column names returned by the db source to exclude from the displayed list. Query—The SQL query that returns the selection list displayed to the user SID—The SID of the db source used Mappings—An array containing ClientID and ColumnName pairs for mapping other columns in the query results to fields on the form	RW
disabled	Set to either true or false. If true, the field is disabled and cannot be selected or changed.	RW
events	Contains any script for the onFocus, onBlur, and onChange events bound to the question field on the form.	RW
flex	The width % applied to the question on the form. This value is in relation to the container that contains the question field on the form.	RW
friendlyAnswer	The LABEL that is displayed in the field when a selection is made.	R
id	The system-assigned field ID linked to the field (see also: ClientID)	R
isDirty	Indicates whether the value in the field has been changed since the form was loaded. Returns true if the value has been changed, false if it has not.	R
Label	The label shown on the form for the question	RW
loaded	Indicates the Question has initialized and any prefill data has been set. true/false	R
originalAnswer	The value of the field when the form initially loads.	R
QuestionType	SearchBox	R
readonly	Set to either true or false. If true, the field can be selected but the value cannot be changed.	RW
show	Indicates whether the question field should be shown on the form (true/false)	RW
validation	The validation values and messages used when a form submitted. They correspond to the Validation tab on the question's configuration screen. requiredMessage – The message displayed when the Required validation fails.	RW

Question Type: Rich Text

Answer	HTML tagged content that has been entered into the field. This can contain standard HTML elements, such as tables, links, images, etc.	RW
class	The style class(es) applied to the question on the form (See section on Defining and Using Classes)	RW
ClientID	The ID of the html element on the form	R
disabled	Indicates whether the question field on the form is set to disabled (true/false)	RW
events	Contains any script for the onBlur, and onChange events bound to the question field on the form.	RW
flex	The width % applied to the question on the form. This value is in relation to the container that contains the question field on the form.	RW
id	The system-assigned field ID linked to the field (see also: ClientID)	R
isDirty	Indicates whether the value in the field has been changed since the form was loaded. Returns true if the value has been changed, false if it has not.	R
Label	The label shown on the form for the question	RW
loaded	Indicates the Question has initialized and any prefill data has been set. true/false	R
QuestionType	RichText	R
show	Indicates whether the question field should be shown on the form (true/false)	RW
validation	The validation values and messages used when a form submitted. They correspond to the Validation tab on the question's configuration screen. requiredMessage – The message displayed when the Required validation fails.	RW

Question Type: Time Zone

Answer	Contains the name of the selected time zone.	RW
class	The style class(es) applied to the question on the form (See section on Defining and Using Classes)	RW
ClientID	The ID of the html element on the form	R
disabled	Indicates whether the question field on the form is set to disabled (true/false)	RW
events	Contains any script for the onFocus, onBlur, and onChange events bound to the question field on the form.	
flex	The width % applied to the question on the form. This value is in relation to the container that contains the question field on the form.	RW
id	The system-assigned field ID linked to the field (see also: ClientID)	R
isDirty	Indicates whether the value in the field has been changed since the form was loaded. Returns true if the value has been changed, false if it has not.	R

Label	The label shown on the form for the question	RW
loaded	Indicates the Question has initialized and any prefill data has been set. true/false	R
originalAnswer	The value of the field when the form initially loads.	R
QuestionType	TimeZone	R
show	Indicates whether the question field should be shown on the form (true/false)	RW
validation	The validation values and messages used when a form submitted. They correspond to the Validation tab on the question's configuration screen. requiredMessage – The message displayed when the Required validation fails.	RW

Question Type: Password

Answer	Contains the password value entered	RW
class	The style class(es) applied to the question on the form (See section on Defining and Using Classes)	RW
ClientID	The ID of the html element on the form	R
disabled	Indicates whether the question field on the form is set to disabled (true/false)	RW
events	Contains any script for the onFocus, onBlur, and onChange events bound to the question field on the form.	
flex	The width % applied to the question on the form. This value is in relation to the container that contains the question field on the form.	RW
id	The system-assigned field ID linked to the field (see also: ClientID)	R
isDirty	Indicates whether the value in the field has been changed since the form was loaded. Returns true if the value has been changed, false if it has not.	R
Label	The label shown on the form for the question	RW
loaded	Indicates the Question has initialized and any prefill data has been set. true/false	R
QuestionType	Password	R
show	Indicates whether the question field should be shown on the form (true/false)	RW
validation	The validation values and messages used when a form submitted. They correspond to the Validation tab on the question's configuration screen. regExMessage – The message displayed when the regEx validation fails. regEx – The regEx expression to use validate the field value. Max – A maximum length value that is used to compare the field value against. maxMessage – The message displayed when the Max validation fails. Min – A minimum length value that is used to compare the field value against. minMessage – The message displayed when the Min validation fails.	RW

	required (true/false) – Indicates whether the field is required. Setting this to true will also trigger the display of the required field indicator (*). requiredMessage – The message displayed when the required validation fails.	

Question Type: Grid

addRow	Adds a new row object to the grid (see getRowObejct())	W
Answer	An array of JSON objects. Contains the data entered for the rows in the grid. The JSON object label/key is the name given to the column in the grid. The JSON object value is either a discrete data value or an object (e.g. MultiChoiceSelectList column). Each answer also has a delete property (true/false) which indicates the status of the checkbox for each row/answer in the grid.	RW
class	The style class(es) applied to the question on the form (See section on Defining and Using Classes)	RW
ClientID	The ID of the HTML element on the form. Used to reference the question with script.	R
events	onChange (onBlur and onFocus not yet implemented) The change event for the grid; returns an object containing data about the change made to the row.	RW
flex	The width % applied to the question on the form. This value is in relation to the container that contains the question field on the form.	RW
getFooterValues()	Returns an array of JSON objects containing the grid footer columns. Each object contains: name, value, and aggregationType.	
getRowObject()	Returns an empty row object that matches the column definition	
gridOptions.data	Contains an array of row objects for the row data contained in the grid	RW
isdirty	true/false	
Label	The label shown on the form for the question	RW
loaded		
show	Indicates whether the question field should be shown on the form (true/false)	RW
showDeleteButton(bool)	Hides/Shows the Delete button for the grid (true/false)	
showDeleteColumn(bool)	Hides/Shows the selection checkboxes for each row in the grid (true/false)	
showLabel	Hides/Shows the label for the grid (true/false)	RW