Windsor Solutions



Control Attributes Reference Guide

Updated for Version 4.17

Revision Date: September 28, 2023



THIS PAGE INTENTIONALLY LEFT BLANK

**Contents**

[Overview 1](#_Toc63849576)

[Control Attributes 2](#_Toc63849577)

[Control Definition 2](#_Toc63849578)

[Control Value Properties 16](#_Toc63849579)

THIS PAGE INTENTIONALLY LEFT BLANK

**Version Control**

|  |  |  |  |
| --- | --- | --- | --- |
| Version  | Date | Author | Notes |
| 4.6 | 5/10/2019 | Windsor Solutions | Initial Version – split out contents from consolidated Integration Guide. |
| 4.7 | 5/30/2019 | Windsor Solutions | Updated for v4.7. |
| 4.8 | 2/7/2020 | Windsor Solutions | Updated for v4.8. |
| 4.9 | 7/27/2020 | Windsor Solutions | Updated for v4.9. |
| 4.10 | 9/4/2020 | Windsor Solutions | Updated for 4.10. Added missing content to get document up to date. |
| 4.11 | 1/29/2021 | Windsor Solutions | Updated for 4.11. Added new Message control to controls and added new Instruction control properties. |
| 4.12 | 7/20/2021 | Windsor Solutions | Updated to reflect release 4.12. |
| 4.13 | 5/2/2022 | Windsor solutions. | Updated to for 4.13. |
| 4.14 | 8/31/2022 | Windsor Solutions | Updated to reflect release 4.14. |
| 4.15 | 12/19/2022 | Windsor Solutions | Updated to reflect release 4.15. |
| 4.16 | 5/11/2023 | Windsor Solutions | Updated to reflect release 4.16. |
| 4.17 | 9/28/2023 | Windsor Solutions | Updated to reflect 4.17. |

THIS PAGE INTENTIONALLY LEFT BLANK

# Overview

The nFORM system provides numerous opportunities for integration, whether it is for the purposes of accessing data saved within nFORM, interfacing with 3rd party tools (e.g., document generation and/or email generation) or interfacing with external systems.

This document provides a catalog of the attributes that are available for reference and is helpful when referencing a control attribute during a data pre-population or data export processes as well as in email or document generation templates.

# Control Attributes

The following provides a catalog of the attributes available for reference for each control type.

The Control Attributes are broken in to two categories:

* **Control Definition**: These are the attributes that define the configuration of a control (e.g., labels, tags, helptips, etc.).
* **Control Value**: These are the attributes representing the user entered “values” for a control (e.g., controlValue, noteText, etc.).

## Control Definition

When integrating with the nFORM submission data, the questions answered on a form can be accessed. When accessing this data either through JSON, XML or by other means, each control type will expose a unique set of properties based on what is relevant for the control in question. The tables below are provided as a reference of the properties available for each control type.

### Short Text

The following table provides a list of the properties which are configured for the control type.

|  |  |
| --- | --- |
| Property | Description |
| ctrlType (=input) | A name which signifies the type of the control. |
| label | The label displayed to the submitter with the control on a form. |
| helpTip | A help and error tip presented to a submitter on a form. |
| isReadOnly (=on) | This designates whether the control can be modified by the submitter.  |
| required | A flag denoting whether the control must be entered/selected. |
| softDeletionFormula | The formula used to conditionally hide the control. If this formula results in a “True” value, the control will be hidden. |
| concealOrPurge (=Concealed | Conceal and Purge | None) | This designates whether the control will be concealed, or concealed and purged, or not. |
| default | The default text value to enter in the control. |
| maxLength | The max number of characters allowed to be entered into the control on the form, by the submitter. |
| existingFormat | The reference value for the existing validation format (e.g., date, time, email, phone, url, etc.) to utilize for validating the entered value. |
| regex | The custom regular expression used to validate the data entered into the control. The regular expression used is stored in the control definition and applied at when then control loses focus.  |
| datasource | The GUID of the data source type for the desired list. |
| storedDataSource | The name of the data source (from the LOOKUP table) for the desired auto-complete list. |
| numberOfMatches | Auto-complete: The number of matches to display to the user in the auto-complete dropdown list. |
| strict (=on) | This designates whether the only values found in the Datasource list will be allowed to be selected. |
| tag | The tag name assigned to the control used to uniquely identify the control for data input/output. |

### Paragraph Text

The following table provides a list of the properties which are configured for the control type.

|  |  |
| --- | --- |
| Property | Description |
| ctrlType (=paragraph) | A name which signifies the type of the control. |
| label | The label displayed to the submitter with the control on a form. |
| helpTip | A help and error tip presented to the submitter on a form. |
| isReadOnly (=on) | This designates whether the control can be modified by the submitter.  |
| required | A flag denoting whether the control must be entered/selected. |
| softDeletionFormula | The formula used to conditionally hide the control. If this formula results in a “True” value, the control will be hidden. |
| concealOrPurge (=Concealed | Conceal and Purge | None) | This designates whether the control will be concealed, or concealed and purged, or not. |
| default | The default text value to enter in the control. |
| maxLength | The max number of characters allowed to be entered into the control on the form, by the submitter. |
| rows | The visible height of the paragraph control, in number of rows. |
| tag | The tag name assigned to the control used to uniquely identify the control for data input/output. |

### Instructions

The following table provides a list of the properties which are configured for the control type.

| Property | Description |
| --- | --- |
| ctrlType (=instructions) | A name which signifies the type of the control. |
| label | The label displayed to the submitter with the control on a form. |
| helpTip | A help and error tip presented to the submitter on a form. |
| default | The instruction text that will be presented in the instructions control on the form. |
| separator (=on) | A flag denoting whether the separator line will be displayed on the control. |
| includeLink (=on) | A flag denoting whether a link will be displayed on the control. |
| linkTitleInput | The label that will be presented as the hyperlink on the control. |
| linkUrlInput | The URL address where the user will be navigated to if they click on the hyperlink on the control. |
| suppressOnPrint (=on) | This designates whether this control will be suppressed from the submission print and download. |
| softDeletionFormula | The formula used to conditionally hide the control. If this formula results in a “True” value, the control will be hidden. |
| tag | The tag name assigned to the control used to uniquely identify the control for data input/output. |

### Single Selection

The following table provides a list of the properties which are configured for the control type.

| Property | Description |
| --- | --- |
| ctrlType (=select) | A name which signifies the type of the control. |
| label | The label displayed to the submitter with the control on a form. |
| helpTip | A help and error tip presented to the submitter on a form. |
| isReadOnly (=on) | This designates whether the control can be modified by the submitter.  |
| required | A flag denoting whether the control must be entered/selected. |
| softDeletionFormula | The formula used to conditionally hide the control. If this formula results in a “True” value, the control will be hidden. |
| concealOrPurge (=Concealed | Conceal and Purge | None) | This designates whether the control will be concealed, or concealed and purged, or not. |
| default | The default value to initially be selected for the control. |
| allowOther (=on) | A flag denoting whether the “other” option will be included in the selection as an option. If other is selected, the “Describe Other” field will be presented to the user. |
| allowReasonTrigger Label | The label that will be presented to the user when requested additional explanation when a specific value is selected (e.g., “Please explain”). Existence of the label activates the custom reason trigger which will allow the form to ask for additional explanation is specific value is selected. |
| allowReasonTrigger Text | The text that will be matched from within the list to present the reason/explanation field. For example, if “Yes” is the Reason Match Text, the user will be presented with the reason field, if “Yes” is selected. Existence of the trigger text activates the custom reason trigger which will allow the form to ask for additional explanation is specific value is selected. |
| Datasource | The GUID of the data source type for the desired list. |
| storedDataSource | The name of the data source (from the LOOKUP table) for the desired auto-complete list. |
| options | The options that will be presented to the user in the selection control. Each option will be separated by a “%0a”. |
| renderType (=radio or leave Null for select list) | This designates whether a dropdown/select list or radio buttons will be presented to the user. |
| tag | The tag name assigned to the control used to uniquely identify the control for data input/output. |

### Multi-Selection

The following table provides a list of the properties which are configured for the control type.

| Property | Description |
| --- | --- |
| ctrlType (=selectMult) | A name which signifies the type of the control. |
| label | The label displayed to the submitter with the control on a form. |
| helpTip | A help and error tip presented to the submitter on a form. |
| isReadOnly (=on) | This designates whether the control can be modified by the submitter.  |
| required | A flag denoting whether the control must be entered/selected. |
| default | The default value to initially be selected for the control. |
| allowOther | A flag denoting whether the “other” option will be included in the selection as an option. If other is selected, the “Describe Other” field will be presented to the user. |
| allowReasonTrigger Label | The label that will be presented to the user when requested additional explanation when a specific value is selected (e.g., “Please explain”). Existence of the label activates the custom reason trigger which will allow the form to ask for additional explanation is specific value is selected. |
| allowReasonTrigger Text | The text that will be matched from within the list to present the reason/explanation field. For example, if “Yes” is the Reason Match Text, the user will be presented with the reason field, if “Yes” is selected. Existence of the trigger text activates the custom reason trigger which will allow the form to ask for additional explanation is specific value is selected. |
| datasource | The GUID of the data source type for the desired list. |
| storedDataSource | The name of the data source (from the LOOKUP table) for the desired auto-complete list. |
| options | The options that will be presented to the user in the selection control. Each option will be separated by a “+”. |
| renderType (=checkbox or leave Null for select list) | This designates whether a dropdown/select list or checkboxes will be presented to the user. |
| tag | The tag name assigned to the control used to uniquely identify the control for data input/output. |

### Number

The following table provides a list of the properties which are configured for the control type.

| Property | Description |
| --- | --- |
| ctrlType (=number) | A name which signifies the type of the control. |
| label | The label displayed to the submitter with the control on a form. |
| helpTip | A help and error tip presented to the submitter on a form. |
| isReadOnly (=on) | This designates whether the control can be modified by the submitter.  |
| required | A flag denoting whether the control must be entered/selected. |
| softDeletionFormula | The formula used to conditionally hide the control. If this formula results in a “True” value, the control will be hidden. |
| concealOrPurge (=Concealed | Conceal and Purge | None) | This designates whether the control will be concealed, or concealed and purged, or not. |
| default | The default value to initially be selected for the control. |
| maxLength | The max number of characters allowed to be entered into the control on the form, by the submitter. |
| Regex | The custom regular expression used to validate the data entered into the control. The regular expression used is stored in the control definition and applied at when then control loses focus.  |
| decimalPlaces | This integer value designates the number of decimal places (numbers to the right of the decimal) to present to the user. |
| thousandsSeparator (=on) | This designates whether to present a comma in the number as the thousands separator. |
| tag | The tag name assigned to the control used to uniquely identify the control for data input/output. |

### Date

The following table provides a list of the properties which are configured for the control type.

| Property | Description |
| --- | --- |
| ctrlType (=date) | A name which signifies the type of the control. |
| label | The label displayed to the submitter with the control on a form. |
| helpTip | A help and error tip presented to the submitter on a form. |
| isReadOnly (=on) | This designates whether the control can be modified by the submitter.  |
| required | A flag denoting whether the control must be entered/selected. |
| softDeletionFormula | The formula used to conditionally hide the control. If this formula results in a “True” value, the control will be hidden. |
| concealOrPurge (=Concealed | Conceal and Purge | None) | This designates whether the control will be concealed, or concealed and purged, or not. |
| default | The name of the auto-population option used to default the control value(s) based on the properties on a user’s profile. |
| Regex | The custom regular expression used to validate the data entered into the control. The regular expression used is stored in the control definition and applied at when then control loses focus.  |
| tag | The tag name assigned to the control used to uniquely identify the control for data input/output. |

### Time

The following table provides a list of the properties which are configured for the control type.

|  |  |
| --- | --- |
| Property | Description |
| ctrlType (=time) | A name which signifies the type of the control. |
| label | The label displayed to the submitter with the control on a form. |
| helpTip | A help and error tip presented to the submitter on a form. |
| isReadOnly (=on) | This designates whether the control can be modified by the submitter.  |
| required | A flag denoting whether the control must be entered/selected. |
| softDeletionFormula | The formula used to conditionally hide the control. If this formula results in a “True” value, the control will be hidden. |
| concealOrPurge (=Concealed | Conceal and Purge | None) | This designates whether the control will be concealed, or concealed and purged, or not. |
| default | The name of the auto-population option used to default the control value(s) based on the properties on a user’s profile. |
| Regex | The custom regular expression used to validate the data entered into the control. The regular expression used is stored in the control definition and applied at when then control loses focus.  |
| tag | The tag name assigned to the control used to uniquely identify the control for data input/output. |

### Email

The following table provides a list of the properties which are configured for the control type.

| Property | Description |
| --- | --- |
| ctrlType (=email) | A name which signifies the type of the control. |
| label | The label displayed to the submitter with the control on a form. |
| helpTip | A help and error tip presented to the submitter on a form. |
| isReadOnly (=on) | This designates whether the control can be modified by the submitter.  |
| required | A flag denoting whether the control must be entered/selected. |
| softDeletionFormula | The formula used to conditionally hide the control. If this formula results in a “True” value, the control will be hidden. |
| concealOrPurge (=Concealed | Conceal and Purge | None) | This designates whether the control will be concealed, or concealed and purged, or not. |
| default | The name of the auto-population option used to default the control value(s) based on the properties on a user’s profile. |
| maxLength | The max number of characters allowed to be entered into the control on the form, by the submitter. |
| Regex | The custom regular expression used to validate the data entered into the control. The regular expression used is stored in the control definition and applied at when then control loses focus.  |
| tag | The tag name assigned to the control used to uniquely identify the control for data input/output. |

### URL

The following table provides a list of the properties which are configured for the control type.

| Property | Description |
| --- | --- |
| ctrlType (=url) | A name which signifies the type of the control. |
| label | The label displayed to the submitter with the control on a form. |
| helpTip | A help and error tip presented to the submitter on a form. |
| isReadOnly (=on) | This designates whether the control can be modified by the submitter.  |
| required | A flag denoting whether the control must be entered/selected. |
| softDeletionFormula | The formula used to conditionally hide the control. If this formula results in a “True” value, the control will be hidden. |
| concealOrPurge (=Concealed | Conceal and Purge | None) | This designates whether the control will be concealed, or concealed and purged, or not. |
| default | The name of the auto-population option used to default the control value(s) based on the properties on a user’s profile. |
| maxLength | The max number of characters allowed to be entered into the control on the form, by the submitter. |
| Regex | The custom regular expression used to validate the data entered into the control. The regular expression used is stored in the control definition and applied at when then control loses focus.  |
| tag | The tag name assigned to the control used to uniquely identify the control for data input/output. |

### Phone

The following table provides a list of the properties which are configured for the control type.

| Property | Description |
| --- | --- |
| ctrlType (=phone) | A name which signifies the type of the control. |
| label | The label displayed to the submitter with the control on a form. |
| helpTip | A help and error tip presented to the submitter on a form. |
| isReadOnly (=on) | This designates whether the control can be modified by the submitter.  |
| required | A flag denoting whether the control must be entered/selected. |
| softDeletionFormula | The formula used to conditionally hide the control. If this formula results in a “True” value, the control will be hidden. |
| concealOrPurge (=Concealed | Conceal and Purge | None) | This designates whether the control will be concealed, or concealed and purged, or not. |
| default | The name of the auto-population option used to default the control value(s) based on the properties on a user’s profile. |
| Regex | The custom regular expression used to validate the data entered into the control. The regular expression used is stored in the control definition and applied at when then control loses focus.  |
| tag | The tag name assigned to the control used to uniquely identify the control for data input/output. |

### Message

The following table provides a list of the properties which are configured for the control type.

| Property | Description |
| --- | --- |
| ctrlType (=message) | A name which signifies the type of the control. |
| messageType | The type of message to be displayed. |
| messageText | The text displayed in the message. |
| suppressOnPrint | This designates whether this control will be suppressed from the submission print and download. |
| softDeletionFormula | The formula used to conditionally hide the control. If this formula results in a “True” value, the control will be hidden. |

### Name

The following table provides a list of the properties which are configured for the control type.

| Property | Description |
| --- | --- |
| ctrlType (=name) | A name which signifies the type of the control. |
| label | The label displayed to the submitter with the control on a form. |
| helpTip | A help and error tip presented to the submitter on a form. |
| isReadOnly (=on) | This designates whether the control can be modified by the submitter.  |
| default | The name of the auto-population option used to default the control value(s) based on the properties on a user’s profile. |
| required | A flag denoting whether the control must be entered/selected. |
| softDeletionFormula | The formula used to conditionally hide the control. If this formula results in a “True” value, the control will be hidden. |
| tag | The tag name assigned to the control used to uniquely identify the control for data input/output. |

### Location

The following table provides a list of the properties which are configured for the control type.

| Property | Description |
| --- | --- |
| ctrlType (=location) | A name which signifies the type of the control. |
| label | The label displayed to the submitter with the control on a form. |
| helpTip | A help and error tip presented to the submitter on a form. |
| isReadOnly (=on) | This designates whether the control can be modified by the submitter.  |
| required | A flag denoting whether the control must be entered/selected. |
| softDeletionFormula | The formula used to conditionally hide the control. If this formula results in a “True” value, the control will be hidden. |
| storedDataSource | The name of the data source (from the LOOKUP table) for the desired auto-complete list. This is used to populate list of TMKs, when relevant. |
| numberOfMatches | Auto-complete: The number of matches to display to the user in the auto-complete dropdown list. This is used to populate list of TMKs, when relevant. |
| tag | The tag name assigned to the control used to uniquely identify the control for data input/output. |

### Address

The following table provides a list of the properties which are configured for the control type.

| Property | Description |
| --- | --- |
| ctrlType (=address) | A name which signifies the type of the control. |
| label | The label displayed to the submitter with the control on a form. |
| helpTip | A help and error tip presented to the submitter on a form. |
| isReadOnly (=on) | This designates whether the control can be modified by the submitter.  |
| default | The name of the auto-population option used to default the control value(s) based on the properties on a user’s profile. |
| required | A flag denoting whether the control must be entered/selected. |
| softDeletionFormula | The formula used to conditionally hide the control. If this formula results in a “True” value, the control will be hidden. |
| concealOrPurge (=Concealed | Conceal and Purge | None) | This designates whether the control will be concealed, or concealed and purged, or not. |
| Tag | The tag name assigned to the control used to uniquely identify the control for data input/output. |
| addressDescrEnabled (=on) | This designates whether the Location Description field will be enabled. |
| countryEnabled | This designates whether the Country field will be enabled. |
| countryRequired | This designates whether the Country field will be required. |
| countyEnabled | This designates whether the County field will be enabled. |
| countyRequired | This designates whether the County field will be required. |
| countyRequiredWhenUsa | This designates whether the County value will be required when the Country field is populated with “USA”. |
| allowPartialAddress | This designates whether partial addresses (e.g., city and state provided, but no street address) will be allowed. |

### Attachment

The following table provides a list of the properties which are configured for the control type.

| Property | Description |
| --- | --- |
| ctrlType (=attachment) | A name which signifies the type of the control. |
| label | The label displayed to the submitter with the control on a form. |
| instructionText | The text that will be presented on the attachment control to instruct the user as to what/how to upload documents. |
| helpTip | A help and error tip presented to the submitter on a form. |
| allowMultiFile | A flag denoting whether the control will accept multiple files (versus just one). |
| isReadOnly (=on) | This designates whether the control can be modified by the submitter.  |
| required | A flag denoting whether the control must be entered/selected. |
| allowedFileTypes | The file types that will be allowed to be accepted on the control (separate multiple file extensions with “%7c”). The existence of a value in this field will enable custom file restrictions. |
| softDeletionFormula | The formula used to conditionally hide the control. If this formula results in a “True” value, the control will be hidden. |
| concealOrPurge (=Concealed | Conceal and Purge | None) | This designates whether the control will be concealed, or concealed and purged, or not. |
| tag | The tag name assigned to the control used to uniquely identify the control for data input/output. |

### Table

The following table provides a list of the properties which are configured for the control type.

| Property | Description |
| --- | --- |
| ctrlType (=table) | A name which signifies the type of the control. |
| label | The label displayed to the submitter with the control on a form. |
| helpTip | A help and error tip presented to the submitter on a form. |
| default | The text that will be presented in the control to instruct the user as to what/how to bulk import data. |
| linkTitleInput | The label that will be presented as the hyperlink on the control. |
| linkUrlInput | The URL address where the user will be navigated to if they click on the hyperlink on the control. |
| isReadOnly (=on) | This designates whether the control can be modified by the submitter.  |
| required | A flag denoting whether the control must be entered/selected. |
| softDeletionFormula | The formula used to conditionally hide the control. If this formula results in a “True” value, the control will be hidden. |
| concealOrPurge (=Concealed | Conceal and Purge | None) | This designates whether the control will be concealed, or concealed and purged, or not. |
| tag | The tag name assigned to the control used to uniquely identify the control for data input/output. |

### Advanced Table

The following table provides a list of the properties which are configured for the control type.

| Property | Description |
| --- | --- |
| ctrlType (=grid) | A name which signifies the type of the control. |
| label | The label displayed to the submitter with the control on a form. |
| helpTip | A help and error tip presented to the submitter on a form. |
| default | The text that will be presented in the control to instruct the user as to what/how to use the table. |
| disableRowAdd (=on) | This designates whether the user will have the ability to add a new row to the table. |
| disableRowDelete (=on) | This designates whether the user will have the ability to delete a row from the table. |
| required (=on) | This designates whether the user will be required to enter at least one in the table. |
| softDeletionFormula | The formula used to conditionally hide the control. If this formula results in a “True” value, the control will be hidden. |
| concealOrPurge (=Concealed | Conceal and Purge | None) | This designates whether the control will be concealed, or concealed and purged, or not. |
| tag | The tag name assigned to the control used to uniquely identify the control for data input/output. |
| isHidden (=on) | This designates whether the control will be hidden. |

### Contact

The following table provides a list of the properties which are configured for the control type.

| Property | Description |
| --- | --- |
| ctrlType (=contact) | A name which signifies the type of the control. |
| label | The label displayed at the top of the control to the submitter with the control on a form. |
| helpTip | A help and error tip presented to the submitter on a form. |
| isReadOnly (=on) | This designates whether the control can be modified by the submitter.  |
| default | The name of the auto-population option used to default the control value(s) based on the properties on a user’s profile. |
| required (=on) | A flag denoting whether the control must be entered/selected. |
| softDeletionFormula | The formula used to conditionally hide the control. If this formula results in a “True” value, the control will be hidden. |
| concealOrPurge (=Concealed | Conceal and Purge | None) | This designates whether the control will be concealed, or concealed and purged, or not. |
| tag | The tag name assigned to the control used to uniquely identify the control for data input/output. |
| topLabel | The label displayed above the upper, contact individual, section. |
| namesEnabled (=on) | This designates whether to activate the individual name attributes on the control. |
| namesRequired (=on) | A flag denoting whether the individual contact’s first and last name must be entered/selected. |
| prefixEnabled (=on) | This designates whether to activate the individual name prefix attribute on the control. |
| prefixRequried (=on) | This designates whether an individual name prefix will be required. |
| middleNameEnabled (=on) | This designates whether to activate the individual middle name attribute on the control. |
| middleNameRequired (=on) | This designates whether an individual middle name will be required. |
| titleEnabled (=on) | This designates whether to activate the individual title attribute on the control. |
| titleRequired (=on) | This designates whether an individual title will be required. |
| companyEnabled (=on) | This designates whether to activate the company name attributes on the control. |
| companyRequired (=on) | A flag denoting whether the company name must be entered/selected. |
| companyNameLabel | The label to display at the top of the organization/company section. |
| phoneEnabled (=on) | This designates whether to activate the phone attributes on the control. |
| phoneRequired (=on) | A flag denoting whether the phone number must be entered/selected. |
| middleLabel | The label to display at the top of the phone section. |
| allowMultiplePhones (=on) | A flag denoting whether multiple phone numbers will be allowed for entry. |
| phoneTypeBusiness (=on) | This designates whether the business phone type will be enabled. |
| phoneTypeMain (=on) | This designates whether the main phone type will be enabled. |
| phoneTypeMobile (=on) | This designates whether the mobile phone type will be enabled. |
| phoneTypeHome (=on) | This designates whether the home phone type will be enabled. |
| phoneTypeOther (=on) | This designates whether the other phone type will be enabled. |
| faxEnabled (=on) | This designates whether to activate the fax attribute on the control. |
| FaxRequired (=on) | This designates whether the fax will be required. |
| emailEnabled (=on) | This designates whether to activate the email attribute on the control. |
| emailRequired (=on) | This designates whether the email will be required. |
| bottomLabel | The label displayed above the lower, contact address, section. |
| addressEnabled (=on) | This designates whether to activate the address attributes on the control. |
| addressRequired (=on) | A flag denoting whether the address must be entered/selected. |
| addressDescrEnabled (=on) | This designates whether the Location Description field will be enabled. |
| countyEnabled (=on) | A flag denoting whether the address county field will be displayed. |
| countryRequired (=on) | This designates whether the Country field will be required. |
| countyEnabled (=on) | This designates whether the County field will be enabled. |
| countyRequired (=on) | This designates whether the County field will be required. |
| countyRequiredWhenUsa (=on) | This designates whether the County value will be required when the Country field is populated with “USA”. |
| allowPartialAddress (=on) | This designates whether partial addresses (e.g., city and state provided, but no street address) will be allowed. |

### Calculated

The following table provides a list of the properties, which are configured, for the control type.

| Property | Description |
| --- | --- |
| ctrlType (=calculated) | A name which signifies the type of the control. |
| label | The label displayed to the submitter with the control on a form. |
| helpTip | A help and error tip presented to the submitter on a form. |
| isHidden (=on) | This designates whether the control should be hidden.  |
| calculatedValueFormula | The formula that is used to calculate control’s value.  |
| decimalPlaces | This integer value designates the number of decimal places (numbers to the right of the decimal) to present to the user. |
| thousandsSeparator (=on) | This designates whether to present a comma in the number as the thousands separator. |
| tag | The tag name assigned to the control used to uniquely identify the control for data input/output. |

### Hidden Text

The following table provides a list of the properties, which are configured, for the control type.

| Property | Description |
| --- | --- |
| ctrlType (=hidden) | A name which signifies the type of the control. |
| label | The label displayed to the submitter with the control on a form. |
| default | The default value to initially be selected for the control. |

### SSN

The following table provides a list of the properties which are configured for the control type.

|  |  |
| --- | --- |
| Property | Description |
| ctrlType (=ssn) | A name which signifies the type of the control. |
| label | The label displayed to the submitter with the control on a form. |
| helpTip | A help and error tip presented to the submitter on a form. |
| isReadOnly (=on) | This designates whether the control can be modified by the submitter.  |
| required | A flag denoting whether the control must be entered/selected. |
| softDeletionFormula | The formula used to conditionally hide the control. If this formula results in a “True” value, the control will be hidden. |
| concealOrPurge (=Concealed | Conceal and Purge | None) | This designates whether the control will be concealed, or concealed and purged, or not. |
| showLast4 (=on) | This designates whether the only last 4 digits of the SSN (entered value) should be displayed to the user. |
| tag | The tag name assigned to the control used to uniquely identify the control for data input/output. |

### Data Grid

The following table provides a list of the properties which are configured for the control type.

| Property | Description |
| --- | --- |
| ctrlType (=supergrid) | A name which signifies the type of the control. |
| label | The label displayed to the submitter with the control on a form. |
| helpTip | A help and error tip presented to the submitter on a form. |
| default | The text that will be presented in the control to instruct the user as to what/how to use the table. |
| disableRowAddDETE(=on) | This designates whether the user will have the ability to add a new row to the table. |
| required (=on) | This designates whether the user will be required to enter at least one in the table. |
| softDeletionFormula | The formula used to conditionally hide the control. If this formula results in a “True” value, the control will be hidden. |
| concealOrPurge (=Concealed | Conceal and Purge | None) | This designates whether the control will be concealed, or concealed and purged, or not. |
| tag | The tag name assigned to the control used to uniquely identify the control for data input/output. |

## Control Value Properties

When integrating with the nFORM submission data, the questions answered on a form can be accessed. When accessing this data either through JSON, XML, direct data access or by other means, each control type will expose a unique set of properties based on what is relevant for the control in question.

Control Tag names are the means for linking attributes throughout the nFORM system. These are also used to link data points from external systems to and from the nFORM.

The tables below are provided as a reference of the properties and tagging formats available for each control type.

### Short Text

Control Type: input

The following table provides a list of the properties that are available for import/export for the control type.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Type | Control Type | Control Name | Tag Suffix | Notes |
| Textbox | controlvalue | *Assigned Tag Name* | inputValue |  |

### Paragraph

Control Type: paragraph

The following table provides a list of the properties that are available for import/export for the control type.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Type | Control Type | Control Name | Tag Suffix | Notes |
| Textbox | controlValue | *Assigned Tag Name* | paragraphValue |  |

### Instructions

Type: instructions

Not applicable – no values captured from submitters and/or exported.

### Single Selection

Control Type: select

The following table provides a list of the properties that are available for import/export for the control type.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Type | Control Type | Control Name | Tag Suffix | Notes |
| Single Select Display Text | select | *Assigned Tag Name* | selectItem |  |
| Single Select Key | selectKey | *Assigned Tag Name + “\_\_selectKey”* | selectKey |  |
| Other Reason Textbox | otherReason | *Assigned Tag Name + “\_otherReason”* | selectOther | Only available if “Other” selected and described. |

### Multiple Selection

Control Type: selectMult

The following table provides a list of the properties that are available for import/export for the control type.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Type | Control Type | Control Name | Tag Suffix | Notes |
| Multiple Select Display Text | select | *Assigned Tag Name* | selectMult |  |
| Multiple Select Key | selectKey | *Assigned Tag Name + “\_\_selectKey”* | selectKey |  |
| Other Reason Text Field | otherReason | *Assigned Tag Name + “\_otherReason”* | selectMultOther | Only available if “Other” selected and described. |

### Number

Control Type: number

The following table provides a list of the properties that are available for import/export for the control type.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Type | Control Type | Control Name | Tag Suffix | Notes |
| Textbox | controlValue | *Assigned Tag Name* | number |  |

### Date

Control Type: date

The following table provides a list of the properties that are available for import/export for the control type.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Type | Control Type | Control Name | Tag Suffix | Notes |
| Textbox | controlValue | *Assigned Tag Name* | date |  |

### Time

Control Type: time

The following table provides a list of the properties that are available for import/export for the control type.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Type | Control Type | Control Name | Tag Suffix | Notes |
| Textbox | controlValue | *Assigned Tag Name* | Time |  |

### Email

Control Type: email

The following table provides a list of the properties that are available for import/export for the control type.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Type | Control Type | Control Name | Tag Suffix | Notes |
| Textbox | controlValue | *Assigned Tag Name* | email |  |

### URL

Control Type: url

The following table provides a list of the properties that are available for import/export for the control type.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Type | Control Type | Control Name | Tag Suffix | Notes |
| Textbox | controlValue | *Assigned Tag Name* | url |  |

### Phone

Control Type: phone

The following table provides a list of the properties that are available for import/export for the control type.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Type | Control Type | Control Name | Tag Suffix | Notes |
| Textbox | controlValue | *Assigned Tag Name* | phone |  |

### Message

Control Type: message

Not applicable – no values captured from submitters and/or exported.

### Name

Control Type: name

The following table provides a list of the properties that are available for import/export for the control type.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Type | Control Type | Control Name | Tag Suffix | Notes |
| Full Name | fullNameValue | *Assigned Tag Name + “\_fullNameValue”* | name |  |
| Title | titleValue | *Assigned Tag Name + “\_titleValue”* | nameTitle |  |
| Hidden | isDeleted | *Assigned Tag Name + “\_isDeleted”* | nameIsDeleted |  |

### Location

Control Type: location

The following table provides a list of the properties that are available for import/export for the control type.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Type | Control Type | Control Name | Tag Suffix | Notes |
| Search by name or address | mapAddress | *Assigned Tag Name + “\_*mapAddress*”* | locationAddr | Used for pre-population purposes only |
| Location Coordinates Latitude/Longitude | mapCoord | *Assigned Tag Name + “\_mapCoord”* | locationCoord |  |

### Address

Control Type: address

The following table provides a list of the properties that are available for import/export for the control type.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Type | Control Type | Control Name | Tag Suffix | Notes |
| Street Address | street | *Assigned Tag Name + “\_street”* | addressStreet | street and street1 house the same value |
| Secondary Address | street1 | *Assigned Tag Name + “\_street1”* | addressStreet1 | street and street1 house the same value |
| Secondary Address | street2 | *Assigned Tag Name + “\_street2”* | addressStreet2 |  |
| Postal Code | postalCode | *Assigned Tag Name + “\_postalCode”* | addressPostalCode |  |
| City | locality | *Assigned Tag Name + “\_locality”* | addressLocality |  |
| State/Area | areaCode | *Assigned Tag Name + “\_areaCode”* | addressAreaCode |  |
| County | counyCode | *Assigned Tag Name + “\_counyCode”* | addresssCounty |  |
| Country | countyCode | *Assigned Tag Name + “\_countyCode”* | addresssCountry |  |
| Hidden | isDeleted | *Assigned Tag Name + “\_isDeleted”* | addresssIsDeleted |  |

### Attachment

Control Type: attachment

The following table provides a list of the properties that are available for import/export for the control type.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Type | Control Type | Control Name | Tag Suffix | Notes |
| File ID | fileId | *Assigned Tag Name + “\_fileId”* | attachFileID |  |
| File Name | fileName | *Assigned Tag Name + “\_fileName”* | attachfileName |  |
| Comment | attachmentComment | *Assigned Tag Name + “\_attachmentComment”* | attachComment |  |
| Confidential Checkbox | confidential | *Assigned Tag Name + “\_Confidential”* | attachConf |  |
| Confidential Reason | confidentialReason | *Assigned Tag Name + “\_*confidentialReason | attachConfReason |  |

### Table

Control Type: table

The following table provides a list of the properties that are available for import/export for the control type.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Type | Control Type | Control Name | Tag Suffix | Notes |
| Copy & Paste Table | table | *Assigned Tag Name* | grid | Tab delimited First row column titles |

### Advanced Table

Control Type: grid

The following table provides a list of the properties that are available for import/export for the control type.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Type | Control Type | Control Name | Tag Suffix | Notes |
| Table (multiple fields) | grid | *Assigned Tag Name* | table | Tab delimited. First row column titles |
|  |  |  |  |  |

### Data Grid

Control Type: supergrid

The following table provides a list of the properties that are available for import/export for the control type.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Type | Control Type | Control Name | Tag Suffix | Notes |
| Table (multiple fields) | grid | *Assigned Tag Name* | table | Tab delimited. First row column titles |

### Contact

Control Type: contact

The following table provides a list of the properties that are available for import/export for the control type.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Type | Control Type | Control Name | Tag Suffix | Notes |
| Prefix | prefixNames | *Assigned Tag Name + “\_prefixContact”* | contactPrefix |  |
| First Name | firstNameContact | *Assigned Tag Name + “\_firstNameContact”* | contactFirstName |  |
| Middle Name | middleNameContact | *Assigned Tag Name + “\_middleNameContact”* | contactMiddleName |  |
| Last Name | lastNameContact | *Assigned Tag Name + “\_lastNameContact”* | contactLastName |  |
| Title | titleContact | *Assigned Tag Name + “\_titleContact”* | contactTitle |  |
| Company Name | companyNameContact | *Assigned Tag Name + “\_companyContact”* | contactCompName |  |
| Email | emailContact | *Assigned Tag Name + “\_emailContact”* | contactEmail |  |
| Phone | phoneContact | *Assigned Tag Name + “\_phoneContact”* | contactPhone |  |
| Phone Type | phoneTypeContact |  |  |  |
| Ext. | extensionContact | *Assigned Tag Name + “\_extensionContact”* | contactExt |  |
| Fax | faxContact | *Assigned Tag Name + “\_faxContact”* | contactFax |  |
| Street Address | streetContact | *Assigned Tag Name + “\_streetContact”* | contactStreet |  |
| Secondary Address | street2Contact | *Assigned Tag Name + “\_street2Contact”* | contactStreet2 |  |
| Description | descriptionContact | *Assigned Tag Name + “\_descriptionContact”* | contactDescr |  |
| City | localityContact | *Assigned Tag Name + “\_localityContact”* | contactLocality |  |
| State/Area | areaCodeContact | *Assigned Tag Name + “\_areaCodeContact”* | contactAreaCode |  |
| Postal Code | postalCodeContact | *Assigned Tag Name + “\_postalCodeContact”* | contactPostalCode |  |
| Country | countryCodeContact | *Assigned Tag Name + “\_countryCodeContact”* | contactCountry |  |
| County | countyContact | *Assigned Tag Name + “\_countyContact”* | contactCounty |  |
| Hidden | isDeleted | *Assigned Tag Name + “\_isDeleted”* | isDeleted |  |

### Hidden Text

Control Type: hidden

The following table provides a list of the properties that are available for import/export for the control type.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Type | Control Type | Control Name | Tag Suffix | Notes |
| Textbox | controlvalue | *Assigned Tag Name* | hiddenValue |  |

### Calculated

Control Type: calculated

The following table provides a list of the properties that are available for export for the control type.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Type | Control Type | Control Name | Tag Suffix | Notes |
| Textbox | controlvalue | *Assigned Tag Name* | CalculatedValue |  |

### SSN

Control Type: ssn

The following table provides a list of the properties that are available for import/export for the control type.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Type | Control Type | Control Name | Tag Suffix | Notes |
| Textbox | controlValue | *Assigned Tag Name* | ssn |  |

### Repeating Sections

When Repeating Sections are used, each control/property within a Repeating Section will be represented in the export and will be assigned a Control Name that will be formatted as “Tab” + *Repeating Section Number +* “\_” *+ Individual Control Name*.