

# 602XML Form Technical Specification

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# 1. Introduction

This document contains an overview of elements and attributes that appear in the XML form. Elements and attributes are intended for a new data model.

## 2. 602XML Form

Forms designed in 602XML Designer application are based on the part of the XSL specification, namely on the XSL:FO formatting language; this language specifies how the XML data (form source) should be presented on-screen, or in which graphical format they should be printed. The XSL:FO language format is fully compliant with the XML standard.

Thus individual XSL:FO objects (blocks, tables etc.) are source of form files, together with object properties (that are defined using WYSIWYG approach during form design) that appear as elements and their attributes in the XML format of the form source code.

## 3. Description of XSL:FO Formatting Language Elements and Attributes

Form formatting contains following elements:

- elements from the <http://www.w3.org/TR/xsl/> namespace. These elements are always utilized with the **fo** prefix.

The following elements can be also partially used:

- elements from the <http://software602.cz/forms> namespace. These elements will be always utilized with the **fm** prefix.

Formatting of the form document is fully compliant with the „Extensible Stylesheet Language (XSL), version 1.0“ specification, in accordance with W3C recommendation, as published on October 15th, 2001. This specification is available at <http://www.w3.org/TR/2001/REC-xsl-20011015>.

### 3.1. fo Elements

The following table lists elements from the <http://www.w3.org/TR/xsl/> namespace that can be used in the form document.

**Note:** Specification of elements listed is taken from <http://www.w3.org/TR/2001/REC-xsl-20011015> and <http://www.w3schools.com/schema/>

Table 1 – fo elements from the <http://www.w3.org/TR/xsl/> namespace

Element name	Description
fo:flow	The content of the fo:flow formatting object is a sequence of flow objects that provides the flowing text content that is distributed into pages. The fo:flow element contains all the elements to be printed to the page.
fo:basic-link	The fo:basic-link object represents the start resource of a link.
fo:list-block	List block is a block, with some extra features to control the disposition of list items. Fo:list-block contains the whole list.
fo:list-item	Fo:list-item contains each item in the list. List item is a coupling of item label and item body.
fo:list-item-body	fo:list-item-body contains the content/body of the list-item - typically one or more fo:block objects.
fo:list-item-label	fo:list-item-label contains the label for the list-item - typically an fo:block containing a number, character, etc.
fo:table	Table is the basic element for all tables. All the contents placed inside it is distributed over a single

	rectangular grid of rows and columns. It is used for formatting the tabular material of a table. The table content is divided into a header, footer, and one or more bodies.
fo:table-column	The fo:table-column specifies characteristics applicable to table cells that have the same column and span or to a group of columns. The most important property is the "column-width" property. Note that, if both 'number-columns-repeated' and 'number-columns-spanned' exceed -the column counter is increased by 'number-columns-spanned'. It means that you only set properties for columns: 'column-number' 'column-number' + 'number-columns-spanned' 'column-number' + 2 * 'number-columns-spanned' and so on, leaving default properties for intermediate columns.
fo:table-body	The fo:table-body object is a container for the table rows and table cells of the table.
fo:table-row	The fo:table-row object defines a table row and is used to group table-cells into rows. The border properties can only be used if the value of border-collapse is collapse or collapse-with-precedence for the table.
fo:table-cell	The fo:table-cell object is a container for the content in a table cell.
fo:multi-case	The fo:multi-case object contains (within an fo:multi-switch) each alternative sub-tree of XSL-FO objects. The parent fo:multi-switch will choose which alternative to show and hide the rest.
fo:multi-toggle	The fo:multi-toggle object is used to create an area that when activated (e.g. clicked), switches from one fo:multi-case to another. The "switch-to" property typically matches the "case-name" property of the fo:multi-case to switch to.
fo:multi-switch	The fo:multi-switch object holds one or more fo:multi-case objects and controls the switching between them (activated by fo:multi-toggle). This object can be used for interactive tasks such as table-of-content views and next/previous views. The children of this object are one or more fo:multi-case objects. However, only one fo:multi-case can be visible at a single time. Each fo:multi-case object may contain one or more fo:multi-toggle objects, which controls the fo:multi-case switching of the fo:multi-switch.
fo:character	The fo:character object specifies a character that will be mapped to a glyph for presentation.
fo:instream-foreign-object	The fo:instream-foreign-object object is used for inline graphics or for "generic" objects where the object's data resides as descendants of fo:instream-foreign-object, typically as an XML element sub-tree in a non-XSL namespace (a common format is SVG).
fo:inline	The fo:inline object is used to format a part of a text with a background or enclosing it in a border.
fo:leader	The fo:leader object can be used used to: 1. generate "." to separate titles from page numbers in table of contents 2. create input fields in forms 3. create horizontal rules If the leader's length is too long to fit in the area, the leader will begin a new line.
fo:page-number	The fo:page-number object is used to represent the

	current page-number.
fo:block	Block is the base element for all content areas. Besides properties used to format the block itself, it also conveys formatting information to its inline-level children.
fo:block-container	The fo:block-container object is used to create a block-level reference-area, which often contains a different writing-mode or a different reference-orientation to rotate the content.
fo:root	This is the top node of the object tree. It holds an fo:layout-master-set formatting object an optional fo:declarations and one or more fo:page-sequence objects.
fo:page-sequence	Page sequence defines the order of choosing page masters to accomodate all the contents generated by its flow and static-content children, and the way of numbering them. The layout of these pages comes from the fo:page-sequence-master or page-master referenced by the master-reference trait on the fo:page-sequence.
fo:layout-master-set	Layout-master-set is a wrapper around all masters used in the document. Contains a set of page-masters. Neither of its descendants generates any area, so no inherited elements can be specified on it or on its children. Content model made more strict than in the draft, to enforce that a page-sequence-master be always accompanied by at least one simple-page-master.
simple-page-master	Simple page master defines a page layout. It does not explicitly generate any content. Most of its properties are local except for writing-mode and reference-orientation that are inherited by the underlying region-* objects. The page may be subdivided into up to five regions: region-body, region-before, region-after, region-start, and region-end.
region-body	This region specifies a viewport/reference pair that is located in the "center" of the fo:simple-page-master. It represents the middle of a page. Unlike side regions, this one may have multiple columns. [!] We have restricted margin properties to be margin-only, allowing no spaces. This is done because no clear semantics can be ascribed to single components of a space vector.
region-before	This region specifies a viewport/reference pair that is located on the "before" side of the page-reference-area. It is used in constructing a simple-page-master.
region-after	This region specifies a viewport/reference pair that is located on the "after" side of the page-reference-area. It is used in constructing a simple-page-master.
static-content	The fo:static-content object holds a sequence or a tree of formatting objects that is to be presented in a single region or repeated in like-named regions on one or more pages in the page-sequence. Its common use is for repeating or running headers and footers.
external-graphic	The fo:external-graphic is used for a graphic where the graphics data resides outside of the fo:element tree.
table-header	The fo:table-header object is a container for the table header.
table-footer	The fo:table-footer object is a container for the table footer.
float	The fo:float object is typically used either to cause an image to be positioned in a separate area at the

	beginning of a page, or to cause an image to be positioned to one side, with normal content flowing around and along-side the image.
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### 3.2. fm Elements

The following table lists fm elements from the <http://software602.cz/forms> namespace.

Table 2 – fm elements from the <http://software602.cz/forms> namespace.

Element name	Description
fm:form-params	A form contains always one such element at the first child element position within the fo:root element. It contains basic information on a form.
fm:barcode	It appears at the first child element position within the fo:instream-foreign-object element. The element content is a text or number that is displayed within given form in barcode format. Element attributes bear more detailed information on symbology and other barcode parameters.
fm:internal-graphic	Appears at the first child element position within the fo:instream-foreign-object element. The element content are picture binary data that is inserted into the form; these data are coded using the base64 coding.
fm:enum	An element containing all list entries stored within given form.
fm:list	An element indicating list box entries.
fm:condlist	An element indicating conditional list box entries.
fm:listitem	An item of List Box Entries
fm:template	An element containing transformations.
fm:help	An element containing help.
fm:formsettings	An element combining form properties, which will take effect during filling-in in the 602XML Filler application (e.g. toolbar appearance, permitted actions etc.)
fm:model	An element containing form data model.
fm:instance	This element contains form data record.
fm:bind	An element defining data binding, which is bound to data item from the data record.
fm:submit	An element, which is related to defined submit profile, and defines its specific properties.
fm:font	Non standart fonts should be enclosed into the form.
fm:fonts	A form could contain several fonts.
fm:data-swich	This enable to swich between data.

In comparison with Extensible Stylesheet Language (XSL) version 1.0 [1] specification mentioned above, a form document can contain following exceptions:

- the fo:page-sequence element contains at the most two fo:static-content elements (containing header, footer);
- the fo:static-content, fo:flow, fo:block-container elements can directly contain both text and inline elements;
- the fo:table-cell, fo:list-item-label, fo:list-item-body elements can be empty, they can directly contain both text and arbitrary block elements or inline elements;
- the fo:table elements have always the table-layout='fixed' attribute set.

## 4. Attribute Overview

The following text contains a list of attributes from the <http://www.w3.org/1999/XSL/Format> namespace. These attributes assume value according to XSL:FO [1] format specification.

### 4.1. Attributes of fo Elements

The following table contains attributes of fo elements from the <http://www.w3.org/1999/XSL/Format> namespace.

**Note:** Exact specification of elements listed are taken from <http://www.w3.org/TR/2001/REC-xsl-20011015>.

Table 3 – Attributes of fo elements from the <http://www.w3.org/1999/XSL/Format> namespace.

Attribute name	Attribute name
background	content-height
background-color	content-width
baseline-shift	display
border	display-align
border-after-color	extent
border-after-style	external-destination
border-after-width	flow-name
border-before-color	font-family
border-before-style	font-size
border-before-color	font-style
border-bottom	font-variant
border-before-color	font-weight
border-bottom-style	height
border-bottom-width	id
border-color	internal-destination
border-end-color	language
border-end-style	leader-alignment
border-end-width	leader-length
border-left	leader-pattern
border-left-color	leader-pattern-width
border-left-style	left
border-left-width	linefeed-treatment
border-right	line-height
border-right-color	margin
border-right-style	margin-bottom
border-right-width	margin-left
border-start-color	margin-right
border-start-style	margin-top
border-start-width	master-name
border-style	master-reference
border-top	Number-columns-repeated
border-top-color	number-columns-spanned
border-top-style	number-rows-spanned
border-top-width	odd-or-even
border-width	overflow
bottom	padding
break-before	padding-after
character	padding-before
color	padding-bottom
column-width	padding-end
active-state	padding-left
auto-restore	padding-right
case-name	padding-start
case-title	padding-top
clip	page-break-after

Attribute name
page-break-before
page-break-inside
page-height
page-position
page-width
position
provisional-distance-between-starts
provisional-label-separation
reference-orientation
ref-id
region-name
rendering-intent
right
rule-style
rule-thickness
size
space-after
space-before
space-end
space-start

Attribute name
span
src
start-indent
starting-state
switch-to
table-layout
text-align
text-decoration
text-transform
top
vertical-align
visibility
white-space
white-space-collapse
white-space-treatment
width
list-style
list-style-type
list-style-position
lang

## 4.2. Attributes for Form Element Extension

The following table contains a list of attributes that extend the XSL-FO specification (<http://www.w3.org/TR/xsl/>). It is a form extension that has been developed in Software602, Inc.

Table 4 – Attributes of fo elements in the form extension from the <http://www.w3.org/TR/xsl/> namespace

Attribute name	Pertains to element	Type	Function	Value
form602format	fo:block, fo:inline, fo:table-cell, for which is set one of the following attributes form602date, form602time, form602number	xsd:string	Format for displayed date, time or number at specific form fields.	
form602state	fo:character, fo:inline, fo:table-cell	xsd:string	Information about an actual state of a field. ( <i>internal</i> )	
form602on	fo:character, which have simultaneously the form602chkbx or form602radio attribute	xsd:string	It contains data value of the check box or form radio button in the checked state.	
form602off	fo:character, which have simultaneously the form602chkbx or form602radio attribute	xsd:string	It contains data value of the check box in the unchecked state.	
Form602datevalue	fo:block, fo:inline, fo:table-cell, which have simultaneously the form602date attribute	xsd:date	It contains date value selected in the date picker field. ( <i>internal</i> )	
form602timevalue	fo:block, fo:inline, fo:table-cell, which have simultaneously the form602time attribute	xsd:time	It contains time value selected in the time picker field. ( <i>internal</i> )	
form602lo	fo:block, fo:inline, fo:table-cell	xsd:string	It enables to sort a list.	
form602romsg	fo:block, fo:inline, fo:table-cell	xsd:string	Error message user listing at the read-only field.	
form602badcharmsg	fo:block, fo:inline, fo:table-cell,	xsd:string	Error message user listing due to invalid character insertion.	
form602chars	fo:block, fo:inline, fo:table-cell,	xsd:string	Characters permitted in the text field.	
form602maxchars	fo:block, fo:inline, fo:table-cell	xsd:int	Maximum number of characters in the text field.	

Attribute name	Pertains to element	Type	Function	Value
form602help	fo:block, fo:inline, fo:table-cell, fo:character	xsd:QName	"bookmark"	
form602ct	fo:block, fo:inline, fo:table-cell, fo:list-item, fo:table-row, fo:table, fo:character, fo:basic-link, fo:multi-case, fo:multi-switch	xsd:NMTOKEN	Form control type.	"swi", "txt", "dsw", "num", "lbr", "ilb", "dat", "tim", "rad", "chb", "bin", "rep", "img", "brc", "btn", "cas", "out", "clf", "dbc", "ink", "cnf", "rch"
form602bind	fo:block, fo:inline, fo:table-cell, fo:character, fo:table-row, fo:table, fo:list-item, fo:multi-switch	xsd:QName	Name of a binding structure.	
form602bindref	fo:block, fo:inline, fo:table-cell	xsd:QName	It defines data binding, which the form element is referencing.	
form602trdata	fo:block, fo:inline, fo:table-cell	xsd:string	It enables an automatic conversion of text field value-lowercase to uppercase.	True
form602tooltip	fo:block, fo:inline, fo:table-cell, fo:block-container	xsd:string	Form control help.	
form602reference	fo:block, fo:inline, fo:table-cell	xsd:string	It carries information about relationships between items, binds...	
form602btnclick	fo:block, fo:inline, fo:table-cell	xsd:string	It defines action that should be taken if the button is pressed.	
form602onclick	fo:block, fo:inline, fo:table-cell, fo:character, fo:	xsd:string	It defines action that should be taken if any object is pressed (clicked on).	

Attribute name	Pertains to element	Type	Function	Value
	instream-foreign-object			
form602longfield	fo:block, fo:inline, fo:table-cell	xsd:string	It will enable a special editing field in the work pane for given form control.	Show
form602uchvbind	fo:block, fo:inline, fo:table-cell, fo:character	xsd:string	It defines an auxiliary data binding where the form control is bound.	
form602uchtext	fo:block, fo:inline, fo:table-cell, fo:character, which have simultaneously the form602uchvbind attribute	xsd:string	It defines text displayed at the user intervention selection option for the field with auxiliary data binding.	
form602uchtextdefault	fo:block, fo:inline, fo:table-cell, fo:character, which have simultaneously the form602uchvbind attribute	xsd:string	It defines text displayed at the default action selection option for the field with auxiliary data binding.	
form602langext	fo:block, fo:inline, fo:table-cell, fo:flow	xsd:NMTOKEN	This prevent prepositions to remain on the end of a row.	"lovfl"
form602tabstop	fo:block, fo:inline, fo:table-cell, fo:character	xsd:string	Position of a field while using tabulator.	
characteron	fo:character, which have simultaneously the form602chkbx or form602radio attribute	xsd:string	It defines a graphical view of a checkbox.	
characteroff	fo:character, which have simultaneously the form602chkbx or form602radio attribute	xsd:string	It defines a graphical view of a checkbox.	
form602default	fo:table-cell	xsd:string	Default value in list.	
form602error	fo:block, fo:inline, fo:table-cell, fo:character	xsd:string	Error message when in a field is other data type than is required. ( <i>internal</i> )	
form602minoccurs	fo:block, fo:inline, fo:table-cell, fo:table, fo:table-row	xsd:string	Minimum number of repetitions of repeating sections.	
form602maxoccurs	fo:block, fo:inline, fo:table-cell, fo:table, fo:table-row which have simultaneously the form602ct="rep"	xsd:string	Maximum number of repetitions of repeating sections.	

Attribute name	Pertains to element	Type	Function	Value
	attribute			
form602startindex	fo:block, fo:inline, fo:table-cell, fo:table, fo:table-row which have simultaneously the form602ct="rep" attribute	xsd:integer	Index of a indexed repeating sections which is actually active.	
form602menu	fo:block, fo:inline, fo:table-cell, fo:table, fo:list-item, fo:table-row	xsd:string	This attribute is used when a special menu for binary enclosure or repeting section is used.	
form602expresion	fo:block, fo:table, fo:list-item, fo:table-row fo:inline, fo:table-cell which have simultaneously the form602ct="rep" or form602ct="out" or form602ct="dsw" attribute	xsd:string	Data switching extension. Before showing a case it evaluates an added expression.	
form602group	fo:block-container	xsd:QName	Group together block-containers.	
form602cont	fo:block-container	xsd:NMTOKEN	Type of a block-container. <i>(internal)</i>	txt,num, rad, chb, ilb,dat,tim ,btn,out, brc, bin, pic,lng,fmt ,lnk,lnp
form602type	fo:block, fo:inline, fo:table-cell	xsd:string	Contains type of a date item. <i>(internal)</i>	
form602maxsize	fo:block, fo:inline, fo:table-cell	xsd:positive Integer	Maximum size of an enclosure.	
form602datestyle	fo:block, fo:inline, fo:table-cell	fixed	If this attribute is used a calender of dates will be shown just as a datepicker.	datepicker
form602filter	fo:block, fo:inline, fo:table-cell	xsd:string	Xpath expression of a place, where is a filter of a list.	
form602listname	fo:block, fo:inline, fo:table-cell	xsd:string	Name of a list.	
form602condition	fo:block, fo:inline, fo:table-cell	xsd:string	Xpath expression of a place, where is a condition for a list.	
form602displaycode	fo:block, fo:inline, fo:table-cell	xsd:boolean	A data value from a listbox will be displayed in a field.	
valuexp	fo:block, fo:inline, fo:table-cell which have	xsd:string	Xpath expression of a value that is displayed in a field.	

Attribute name	Pertains to element	Type	Function	Value
	simultaneously the form602reference attribute			
textxp	fo:block, fo:inline, fo:table-cell which have simultaneously the form602reference attribute	xsd:string	Xpath expression of a value that will be saved in a data.	
filenamebind	fo:block, fo:inline, fo:table-cell	xsd:string	Contains name of an enclosed file.	
mediatypebind	fo:block, fo:inline, fo:table-cell	xsd:string	Contains type of an enclosed file.	
form602minval	fo:inline	xsd:date xsd:time	It is used to define a range of a dates (just for datepicker).	
form602maxval	fo:inline	xsd:date xsd:time	It is used to define a range of a dates (just for datepicker).	
form602onleave	fo:block, fo:inline, fo:table-cell	xsd:string	An expression that is break off after a specified form field is left.	
form602oninsert	fo:block, fo:inline, fo:table-cell	xsd:string	An expression that is break off after a section is added.	
form602signer	fo:block, fo:inline, fo:table-cell	xsd:string	Auxiliary attribute for forms with partial submit. ( <i>internal</i> )	
form602bindata	fo:inline	xsd:string	Auxiliary attribute that is used for fields with a binary enclosure.	
form602ffilter	fo:inline	xsd:string	A mask that defines allowed file extensions.	
form602ink	fo:block, fo:inline, fo:table-cell	xsd:string	Contains content of a drawing field. ( <i>internal</i> )	
form602bfparam	fo:inline	xsd:string	Binary attachment that is saved outside- not with data.	
form602refresh	fo:block, fo:inline, fo:table-cell	xsd:string	An expression that is break off after a field is refreshed.	
form602text	fo:block, fo:inline, fo:table-cell	xsd:string	Help text in a text or numeric fields.	
form602lbf1	fo:inline	xsd:NMTOKEN	Shows button at a listbox.	"combo-arrow"
form602menuopencfg form602menusavecfg form602menuusercfg	fo:inline, fo:table-cell	xsd:NMTOKEN	We can modificate a menu of a binary attachment. It can be used for example to	'enable', 'disable', 'hide'

Attribute name	Pertains to element	Type	Function	Value
Name of atribut contains: 'form602menu' + command + 'cfg'			swich off some items in Linux. "Switch(GetOS(), {}, linux,hide)"	
<b>List of attributes which are not more used but could appear in some older forms. (Old data model.)</b>				
<i>form602extern</i>	<i>fo:block, fo:inline, fo:table-cell</i>	<i>xsd:string</i>	<i>It extends non-form object properties.</i>	
<i>form602onenter</i>	<i>fo:block, fo:inline, fo:table-cell</i>	<i>xsd:string</i>	<i>An expression that is break off after enter in to a specified field.</i>	
<i>form602repe</i>	<i>fo:block, fo:inline, fo:table-row, fo:table</i>	<i>xsd:QName</i>	<i>Data document element name; it contains the content of form fields in the form section.</i>	
<i>form602</i>	<i>fo:block, fo:inline, fo:table-cell fo:list-item-label fo:list-item-label</i>	<i>xsd:QName</i>	<i>Data document element name; it contains form text field content.</i>	
<i>form602chkbx</i>	<i>fo:character</i>	<i>xsd:QName</i>	<i>Data document element name; it contains form check box content.</i>	
<i>form602radio</i>	<i>fo:character</i>	<i>xsd:QName</i>	<i>Data document element name; it contains form radio button content.</i>	
<i>form602list</i>	<i>fo:block, fo:inline, fo:table-cell</i>	<i>xsd:QName</i>	<i>Data document element name; it contains form list selected item content.</i>	
<i>form602indexlist</i>	<i>fo:block, fo:inline, fo:table-cell</i>	<i>xsd:QName</i>	<i>Data document element name; it contains selected item content from the form indexed list.</i>	
<i>form602date</i>	<i>fo:block, fo:inline, fo:table-cell</i>	<i>xsd:QName</i>	<i>Data document element name; it contains a date selected in the date entry field.</i>	
<i>form602number</i>	<i>fo:block, fo:inline, fo:table-cell</i>	<i>xsd:QName</i>	<i>Data document element name; it contains numerical content of the form number field.</i>	
<i>form602time</i>	<i>fo:block, fo:inline, fo:table-cell</i>	<i>xsd:QName</i>	<i>Data document element name; it contains time selected in the form time picker.</i>	

### 4.3. Attributes of fm Elements

The following table contains a list of attributes from the <http://software602.cz/forms> namespace.

Table 5 – fm elements from the <http://software602.cz/forms> namespace.

Attribute name	Pertains to element	Type	Function	Value
form-id	fm:formparams	xsd:integer	Number identification of a form.	mandatory
lockstate	fm:formparams	xsd:string	Form locking	locked
producer	fm:formparams	xsd:string	Name of a person or company, which created the form.	optional
publisher	fm:formparams	xsd:string	Name of a person or company, which published the form.	optional
creationdate	fm:formparams	xsd:date	Date of a creation of the form.	
expiration	fm:formparams	xsd:date	Expiration date of the form.	
xmlcore-version	fm:formparams	xsd:string	Version of a XML core.	
xsltdebuglogfile	fm:formparams	xsd:string	<i>This enable logging into a file. (Just in older forms).</i>	
requiredversion	fm:formparams	xsd:string	The lowest needed version that you need to open and use a form.	
proppapercolor	fm:formparams	xsd:string	Backgroundcolor of a form.	
proppapercolorforreadonlymode	fm:formparams	xsd:string	Backgroundcolor of a form in a locked mode.	
proprequiredformfielddbkcolor	fm:formparams	xsd:string	Color of required form fields.	
propformfieldbkcolor	fm:formparams	xsd:string	Color of read-only form fields.	
proprichfieldbkcolor	fm:formparams	xsd:string	Color of rich-text form fields.	
propformfieldbkcolor	fm:formparams	xsd:string	Color of form fields.	
propsaveallinternaldata	fm:formparams	xsd:boolean	Saving relevant and irrelevant data.	true
proppartsigned	fm:formparams	xsd:boolean	Document is partially signed.	false
propnomergedata	fm:formparams	xsd:boolean	Parametrization of data loading.	false
novalidateimmediately	fm:formparams	xsd:boolean	Validation just of an actual form field. (Used in large forms)	
showhelp	fm:formparams	xsd:boolean	After the form is open the help file will be opened, if the showhelp is true.	false
Symbology	fm:barcode	xsd:NMTOKEN	Barcode symbology name.	mandatory
Comment	fm:barcode	xsd:string	Text comment	

Attribute name	Pertains to element	Type	Function	Value
			displayed over or under the barcode.	
narrow-bar-width	fm:barcode	xsd:string	Bar width within the barcode.	
barcode-height	fm:barcode	xsd:string	Barcode height.	
narrow-to-wide-ratio	fm:barcode	xsd:string	Bar width ratio within the barcode.	
orientation	fm:barcode	xsd:string	Barcode orientation.	
text-color	fm:barcode	xsd:string	Color of displayed barcode associated text.	
display-text	fm:barcode	xsd:string	Show barcode associated text.	not, ontop
comment-on-bottom	fm:barcode	xsd:boolean	Show comment under barcode.	true
bearer-bars	fm:barcode	xsd:boolean	Show frame around barcode.	true
bar-width-reduction	fm:barcode	xsd:string	Bar width reduction ratio within the barcode.	
quiet-zones	fm:barcode	xsd:boolean	Show empty area before and after the barcode.	true
code39-full-ascii	fm:barcode	xsd:boolean	Use full-ascii version for barcode of Code 39 symbology.	true
code39-hibc	fm:barcode	xsd:boolean	Use HIBC version for barcode of Code 39 symbology.	true
Booklan	fm:barcode	xsd:boolean	Use for barcode symbology BookLan instead of EAN 8 or EAN 13.	true
eanucc128	fm:barcode	xsd:boolean	Use for barcode symbology EAN/UCC instead of Code 128.	true
display-start-stop-chars	fm:barcode	xsd:boolean	Display the leading and trailing text characters as * character in symbology Code 39.	true
optional-checkdigit	fm:barcode	xsd:boolean	Add one additional error control character into the barcode.	true
optional-checkdigit2	fm:barcode	xsd:boolean	Add two additional error control characters into the barcode.	true
display-check-digit	fm:barcode	xsd:boolean	Display error control characters in the barcode associated text.	true
auto-font-scaling	fm:barcode	xsd:boolean	Adjust automatically barcode associated text size.	true
adjust-to-printer-dpi	fm:barcode	xsd:boolean	Optimize barcode for pre-set printer resolution.	true

Attribute name	Pertains to element	Type	Function	Value
form60bindref	fm:barcode	Xsd:QName	Bind to another form field- output value.	
form602ct	fm:barcode	fixed	Form control type.	"brc", "dbc"
pdfaspect	fm:barcode	xsd:float	Two dimensional barcode.	
pdfsecuritylevel	fm:barcode	xsd:float	Security level of a two dimensional barcode.	
pdfmodule-width	fm:barcode	xsd:float	Width of a two dimensional barcode module.	
pdfmodule-height	fm:barcode	xsd:float	Height of a two dimensional barcode module.	
pdfmax-columns	fm:barcode	xsd:float	Max number of columns in a two dimensional barcode.	
font-size	fm:barcode	xsd:string	Font-size of a barcode text.	
font-family	fm:barcode	xsd:string	Font-family of a barcode text.	
imgsh	fm:internal-graphic	xsd:base64Binary	Binary data check sum of the displayed picture.	In case when data are located directly in this element
imgshref	fm:internal-graphic	xsd:base64Binary	Binary data check sum of the displayed picture.	In case when data are located in another fm:internal-graphic element
form602bindref	fm:internal-graphic fm:data-switch	xsd:QName	It defines data binding, which the form element is referencing.	
form602ct	fm:internal-graphic	fixed	Form control type.	"img"
form602extern	fm:internal-graphic	xsd:string	It extends non-form object properties.	
nodeset	fm:bind	xsd:string	XPath of data item for which a data binding is created.	XPath
calculate	fm:bind	xsd:string	A formula by which the binding value is calculated.	
stoprecalc	fm:bind	xsd:string	Some conditions that defines when a XPath expression will not be counted.	
constraint	fm:bind	xsd:string	Expression defining whether the binding value is correct.	
required	fm:bind	xsd:string	Expression defining whether the binding value is required.	
relevant	fm:bind	xsd:string	Expression defining whether the binding value will be interpreted into the	

Attribute name	Pertains to element	Type	Function	Value
			data record.	
readonly	fm:bind	xsd:string	Expression defining whether the binding value is read-only.	
constraintcomment	fm:bind	xsd:string	An error message for the case of data binding invalid value.	
type	fm:bind	xsd:string	Data type of binding value.	
depends	fm:bind fm:model	xsd:string	A list of bindings upon which this value is dependent functionally.	
name	fm:font(1) fm:enum(2) fm:template(3)	xsd:string	Name of a font enclosed to the form (1), name of a whole enum (2), name of a enclosed xslt transformation.	
updateurl	fm:enum fm:template fm:help	xsd:anyURI	Any URI address from which could be a list uploaded.	
updatexsl	fm:enum fm:template fm:formsettings	xsd:anyURI	Xsl formatting of a list(template, formsettings) could be loaded from an URI.	
embed	fm:enum	xsd:boolean	A list could be embed in a form or not.	false
up-dated	fm:enum fm:template	xsd:date	Date of last updating.	
len	fm:font	xsd:decimal	Length of a font.	
case	fm:list	xsd:string	Name of a value at which will be available a particular list.	
itemtext	fm:listitem	xsd:string	Text of an item that is visible in a list.	
value	fm:listitem	xsd:string	Value of an item.	
filter	fm:listitem	xsd:string	Type of a file that is offered when data are loading.	
form602expresion	fm:data-switch	xsd:string	Data switching extension. Before showing a case it evaluates an added expression.	
form602ct	fm:data-switch	fixed	Form control type.	"dsw"
form602state	fm:data-switch fm:internal-graphic	xsd:string	Information about an actual state of a field.	
Id	fm:bind, fm:submit	xsd:string	Unambiguous identifier.	mandatory
id	fm:submit	xsd:string	Unambiguous identifier (in older forms).	
sender	fm:submit	xsd:string	Name of a sender while using e-mail	E-mail address

Attribute name	Pertains to element	Type	Function	Value
			send method.	
MailDataAddrC	fm:submit	xsd:string	E-mail address for sending copy.	E-mail address
MailDataAddrBC	fm:submit	xsd:string	E-mail address for sending blind copy.	E-mail address
MailDataSubj	fm:submit	xsd:string	E-mail subject.	
MailDataFile	fm:submit	xsd:string	Name of an enclosure.	
body	fm:submit	xsd:string	Main text of a message.	
sendheader	fm:submit	xsd:string	User adjustable http header.	
version	fm:submit	xsd:string	Version of a soap header.	
datacryptid	fm:submit	xsd:string	Identification of a submit needed for crypting.	
soapaction	fm:submit	xsd:string	Name of a action that is void.	
plugin	fm:submit	xsd:string	Name of a plugin.	
xls	fm:submit	xsd:string	Transformation of data before sending.	
usesmtp	fm:submit	xsd:boolean	Usesmtp is true when we set up SMTP as a sending technology in a Mail profile.	
relevant	fm:submit	xsd:boolean	Send only relevant data.	true
signalgorithm	fm:submit	xsd:NMTOKEN	Type of an algorithm that is used for signing.	Pkcs7, xmlsignature
fixaction	fm:submit	xsd:boolean	User can change a name of an URI address.	false
bindelement	fm:submit	xsd:QName	Used while calling submit data.	
sendform	fm:submit	xsd:boolean	Sending an e-mail with the whole form.	true
mailformformat	fm:submit	xsd:NMTOKEN	Format of a form that is sent via e-mail.	fo, zfo, pdf, pdf_a7, pdf_a8
mailzfopassword	fm:submit	xsd:string	Password that is needed for opening a zfo file (in mail profile).	
infoincomplete	fm:submit	xsd:string	A user will be warned that data that he or she wants to send are not complete.	
filter	fm:submit	xsd:NMTOKEN	Type of a file for loading data.	all, form, xml, fo, zfo, p7m
nodialog	fm:submit	xsd:boolean	When true, disable showing of an application dialog of an e-mail client.	false
addcoding	fm:submit	xsd:boolean	This adds information about coding.	false

Attribute name	Pertains to element	Type	Function	Value
datacertpath	fm:submit	xsd:string	Data that should be signed.	
certifffilter	fm:submit	xsd:string	Expression for filtering submits.	
datacertifffilter	fm:submit	xsd:string	Expression for filtering submits in a part of data that should be signed.	
replacebind	fm:submit	xsd:QName	Element (subelement) in a form where should be response placed.	
commandparam	fm:submit	xsd:string	Parametr of a command in a 602XML web service profile.	
checkrepeatsend	fm:submit	xsd:boolean	If this is true, you will be noticed if you try to send the same data two times.	false
resbind1	fm:submit	xsd:QName	Bond to a field where should be a response inserted.	
resbind2	fm:submit	xsd:QName	Bond to a field where should be a response inserted.	
soapresponsexls	fm:submit	xsd:QName	This defines transformation that is used for outcome in a SOAP profile.	
noreplaceq	fm:submit	xsd:boolean	When noreplaceq is true, none acknowledgment dialog will be shown while sending.	
command	fm:submit	xsd:NMTOKEN	Command in a web 602XML service profile.	Readinikey getrefnum sendzfo logout setpassword sendxmldata
zfopassword	fm:submit	xsd:NMTOKEN	Password that is needed for opening a zfo file.	Mandatory, forbidden
sendformat	fm:submit	xsd:NMTOKEN	Which format should be sent.	Fo, zfo, pdf, pdf a7, pdf a8
authentication	fm:submit	xsd:NMTOKEN	This defines whether a name and password should bw required while before sending.	Never, checked, always
replace	fm:submit	xsd:NMTOKEN	This defines an action that should be done with response.	All, none, instance, hidden
senddlg	fm:submit	xsd:NMTOKEN	Type of a dialog that is shown while sending.	None, simple, wizard
method	fm:submit	xsd:string	Method that will be used for data submit.	
validate	fm:submit	xsd:string	Perform validation	

Attribute name	Pertains to element	Type	Function	Value
			on submit.	
cutnamespaces	fm:submit	xsd:string	Remove namespaces on data submit.	
action	fm:submit	xsd:string	Name of an action that is void.	
sign	fm:submit	xsd:string	Attached electronic signature required.	
signalgorithm	fm:submit	xsd:string	Electronic signature format.	
govtalk	fm:submit	xsd:string	Module implementing electronic submit.	

## 5. References

- [1] Extensible Stylesheet Language (XSL)  
Version 1.0  
W3C Recommendation 15 October 2001  
<http://www.w3.org/TR/2001/REC-xsl-20011015>