

# HOW THE DATA IS EXPORTED IN XML FORMAT

## XML data format

The data for the reporting solution is provided in two XML files: surveys.xml and responses.xml. The first of the files, (surveys.xml), contains 4 tables that describe the structure of surveys. The other file, (responses.xml) contains tables with data about respondents and their answers to the questions.

### Surveys.xml contains the following tables:

#### 1. Survey – This table contains information for exported surveys:

- SurveyID – Each survey has a unique ID within the XML file.
- KsID – Internal ID of a survey within Key Survey. This ID is always unique to each survey.
- Name – Text field that represents the name of the survey.
- SurveyURL – survey master URL (general link).
- StartDate – survey start date, can be set on the 'Launch' page.
- EndDate – survey end date, can be set on the 'Launch' page.
- CreateDate – date when the survey was created.

#### 2. Question – This table lists questions of all surveys:

- QuestionID – A unique ID of a specific question within the XML file.
- KsID – Unique ID of a specific question in Key Survey.
- Name – Text value of the question.
- SurveyID – Links the question to particular survey, corresponds to the SurveyID field of the Survey table.
- IsHidden – (Y/N) flag, indicates if the question is hidden or not in the survey.
- AdID – Additional reference ID. This number is most often set to its default value of 0.
- Type – Represents the type of the question. (Please see question and answer types for more information)
- Analysis code – Represents the analysis code the user has set for this question.

#### 3. Answer – This table contains answer options for each question:

- AnswerID – A unique ID for the answer option within the XML file.
- KsID – Unique internal ID within Key Survey that represents each of the answer options.
- QuestionID – ID of a question the answer option belongs to. This links to the QuestionID field of the Question table.
- Value – Text value of the answer option as it appears next to the radio button, checkbox, input field, within droopdown or listbox, etc. in the survey.

- **NumericValue** – This is the numeric value that corresponds to the answer option. Usually, it is the number of the answer option within a question.
  - **Type** – Represents the type of the answer option. (Please see question and answer types for more information)
  - **Weight** – branch on range values assigned to answer choices.
- 4. Column** – Contains column definitions for 3D Matrix questions.
- **ColumnID** – ID of a column, this is unique for the xml file.
  - **QuestionID** – ID of a question the related column belongs to that links this table to Question table.
  - **Index** – Index of the column and its position.
  - **Name** – Title of the column.
  - **Type** – Relates to the type of elements in the column.
  - **Option** – Available for "Dropdown box" elements.
  - **OptionID** – ID of an option within "Dropdown box" element.
  - **Value** – Value of the "Dropdown box" element.

## Responses.xml contains the following tables:

### 1. Respondent

- RespondentID – ID of a respondent, unique within the xml file.
- KsID – Internal unique ID for the respondent.
- Email – Email of the respondent if it was provided within the survey.
- SurveyID – ID of the survey that the respondent was taking. This links to the Survey table from the surveys.xml file.
- Completed – Indicates whether the respondent has finished completing the survey. If the survey has been completed, this field will equal "1"; If the survey is partially completed, this field will equal "0".
- SubmitDateTime – Date and time when respondent submits the survey.

### 2. Response

- ResponseID – ID of a response, unique within the xml file.
- RespondentID – ID of the specific respondent related to this. This links to the RespondentID of the Respondent table
- ColumnID – Applies for 3D Matrix questions and specifies the ID of a column in which the response was entered. This links to the ColumnID field of the Column table.
- AnswerID – ID of the corresponding answer option. This links to the AnswerID field of the Answer table.
- Value – Text or numeric value of a response.
- QuestionID – ID of the corresponding question. This links to the QuestionID field of the Question table
- SurveyID – ID of the corresponding survey. This links to the SurveyID field of the Survey table.

**Question and answer types and possible response values:**

Question type	Answer type	Response values	Comments
HEADER	No Answers	No Response	Question Type: Section Header. This question does not have answers or responses. The question text is stored in the value field.
PICK_ONE_NO_OTHER	ATYPE_RADIO	One response listed as a text value. The text value is the same as the value of the selected answer.	Question type: Pick One that has no 'Other' option. If question has 2 radio buttons (answer 1 and answer 2) and respondent has clicked the first radio button, the response value will be 'answer 1'.
PICK_ONE_WITH_OTHER	ATYPE_RADIO for regular answers ATYPE_SINGLE_LINE_RADIO for "Other" answer option	One response. For regular radio buttons – text value with the same text as in the selected answer. For "Other" – text value, open ended text that respondent has typed in to the "Other" text field.	Question Type: Pick One or Other. Allows respondent to select a radio button next to the text field and input custom text in it.
PICK_ONE_WITH_COMMENT	ATYPE_RADIO for answer options ATYPE_SINGLE_LINE for comments	There are two response records for this type of question: the text value of the answer option respondent selected, and the text values the user has typed into the comments box.	Question Type: Pick One with Comments, allows a respondent to provide a comment with their selection.

Question type	Answer type	Response values	Comments
CHECKALL_NO_OTHER	ATYPE_CHECKBOX	There are as many response records in the Response table as the number of checkboxes respondent selected. The response value is a text value of the answer option that corresponds to the selected checkbox.	Question Type: Check All that Apply (No "Other" radio button). Allows user to select multiple answer options by clicking checkboxes next to them. A separate response record is stored for each selected checkbox.
CHECKALL_WITH_OTHER	ATYPE_CHECKBOX for regular answers ATYPE_SINGLE_LINE_CHECKBOX for "Other" answer option.	For regular checkboxes same as above. For "Other" answer option, the text value is what the user has typed into the text field next to the "Other" checkbox.	Question Type: Check All that Apply (With "Other" radio button) Allows respondents to select all checkboxes that apply and add a custom answer by typing a response into the "Other" text field.
DROPDOWN	ATYPE_DROPDOWN	The text value of the answer option selected	Question Type: Drop-down box. Allows respondents to select one from the list.
LISTBOX	ATYPE_LISTBOX	There are as many response records in the Response table as the number of options respondent selected. The response value is a text value of the answer option that corresponds to the selected line in the list box.	Question Type: List Box. Allows respondents to select multiple items from a list.
SINGLE_LINE	ATYPE_SINGLE_LINE	For each answer line there is a response record that contains text respondent has typed in to the text box.	Question Type: Single line text with pre-formatted answers. Contains a number of text boxes and allows respondents to fill them with open-ended answers.

Question type	Answer type	Response values	Comments
MULTI_LINE	ATYPE_MULTI_LINE	One response. Contains a text value that respondent has typed as an answer.	Question Type: Multi-line text response. This question has one answer option that has no value in the Answer table. The response is an open-ended text.
RANK_GRID_INDEPENDENT	ATYPE_RADIO	For each answer option contains a numeric value that corresponds to the ranking of the respective item. Usually this is a number from 0 to 10.	Question Type: Rank Items Along a Scale. This is a question that allows respondents to rate different items when 'Absolute Rank' option has been turned off. This means that there may be several items with the same ranking.
RANK_GRID_DEPENDENT	ATYPE_RADIO	For each answer option contains a numeric value that corresponds to the ranking of the respective item. Usually this is a number from 0 to 10.	Question Type: Rank Items Along a Scale. (Absolute Rank). This question type is essentially the same as above except the respondent cannot give more than one item the same ranking.
COMPARE	ATYPE_RADIO	For each pair, there is a separate response that is a numeric value that corresponds to the NumericValue field of the respective Answer record.	Question Type: Compare one against another. This question allows the user to compare several items against each other. For each answer option a pair of this option and each of the other options are built. The number of responses is the same as the number of such pairs.

Question type	Answer type	Response values	Comments
3D_MATRIX	ATYPE_SINGLE_LINE	For each column and answer option a separate record is stored. The value depends on the type of column. For columns with types EDIT_RADIO and EDIT_CHECKBOX the value is 1 if the respective radio button or check box has been checked. If the radio button or check box have not been checked, no record is stored in the Response table for this column. For columns with type EDIT_TEXT a text value that the respondent has typed in is stored. For EDIT_DROPDOWN column the response value will be an OptionID that corresponds to the value the user has selected from the dropdown box.	Question Type: 3D Matrix. This type of question is used for complex question that combine several types of input methods.
NUMERIC_ALLOCATION	ATYPE_SINGLE_LINE	Numeric value that has been inputted into the respective input field.	Question Type: Numeric Allocation. This question type is basically the same as the SINGLE_LINE question except it is used for numeric values and calculating totals automatically in the UI.
INTERNAL_NOTES	No Answers	No Responses	Used to store internal notes for the survey.

\* For RANK\_GRID\_DEPENDENT and RANK\_GRID\_INDEPENDENT questions, the minimum and maximum values for ranking can be obtained from the Column table. For each of these questions a set of columns is created that has rankings in the Index field. The lowest rank will be the lowest index for the QuestionID and the highest index will be the highest possible rank. Titles are also given to some of these columns in the Name field.