

SecuTrial® 5.0.2.11 – Version history

Based on Version 5.0.1.21



Introduction

This version contains a number of additional import functions, two new web services for automated data export and the possibility to refer to metadata in rule conditions (status information during form entry):

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New Functions

1. Import

Merging columns

sT5.0-6.1, #8252

Data that is separately listed within an import file can now be merged during import and can be imported as a single value into a single item. For example, this function can be used to import separately listed time and date values into a single time and date item. It would also be possible to import two text values into a single, larger text field or the separately listed digits before and after the decimal point of a number into a single number item.

To enable this function, one or more data preprocessing steps must be defined in the import format or in the import configuration. The first step is to specify which external variables (=column headings) contain the two separate values in the import file and under which new external name this data should then be processed. Under format (maximum 100 characters), it must then be specified how value {1} and value {2} are to be linked together: you can specify the order, character before after the new value or a character between the two values (see Fig. 1, bracket 1).

In the import format, you can then define the mapping with which the new merged import value is assigned to an item.

The preprocessing specification in an import configuration is used for multi-mass imports. The specification in an import format is used for a mass import into a single form or a single form import.

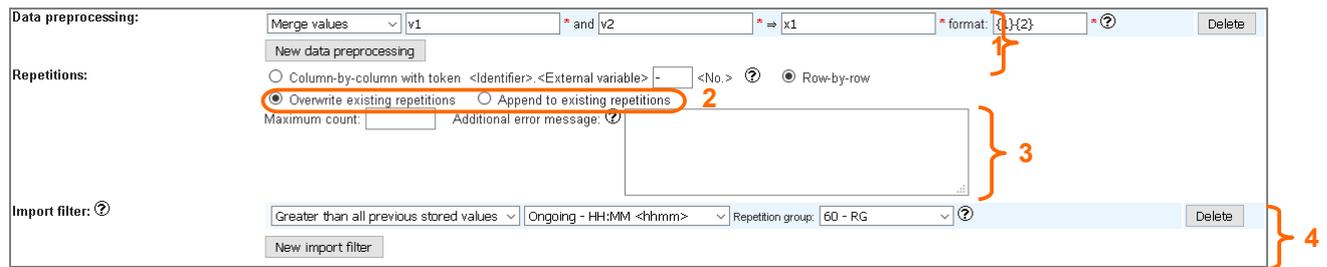


Fig. 1: Specification options for data preprocessing (bracket 1, see above), the handling of repetitions (circle 2), the maximum number of repetitions (bracket 3) and the import filter (bracket 4) in an import format.

Extended configuration of the CSV parser

Treatment of format errors

#8635

When using a CSV parser, a table-type CSV file is expected containing the external keys as column headings in the first row and the values belonging to the keys in the rows underneath. The number of columns should correspond in all of the rows.

In previous versions, all files in which the number of columns was not the same in all rows were rejected with errors and the import could not be performed.

It is now possible to define in every CSV parser whether such format errors should be treated as an "error" just as previously or only as a "warning" (see Fig. 2, highlight 1). In the case of a "warning", after uploading the CSV file only a warning will be displayed, the import can still be performed. The first row containing the column headings will be used as the basis for the table format: if there too few columns in the data rows, these will be filled with empty values (NULL), excess columns will be ignored.

Trimming values

#8634

In previous versions, all data in CSV files that was encompassed by the specified delimiter (e.g. quotation marks) or – if there were no delimiters – delimited by separators was interpreted as data without further processing. This also applied for leading or trailing blanks.

It is now possible to configure whether the data should be trimmed when parsing the CSV file before it is analysed (see Fig. 2, highlight 2). During import, all leading or trailing blanks or other blank symbols (e.g. tabs) are removed. Blanks (and empty spaces) within texts will be retained. Data that only contains empty spaces will be reduced to a blank text (this is interpreted as NULL during import).

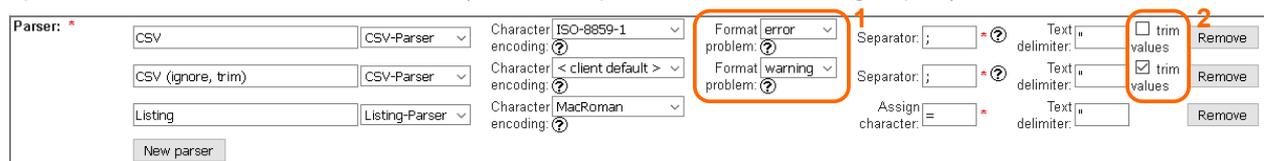


Fig. 2: Definition of import parsers with the configuration for the treatment of format errors (highlight 1) and trimming values (highlight 2).

Appending to or overwriting repetitions

When defining the treatment of repetitions in import formats, you can specify whether all repetitions for a form should be overwritten in the same way as before or whether all imported repetitions should be appended to already existing repetitions (see Fig. 1, highlight 2).

Filtering repetition datasets sT5.0-6.2, #8325

In the case of multiple imports of the same file, you can prevent the data from being imported all over again by defining import filters in import formats. The filter discards all repetitions within a dataset that do not correspond with the defined filter criterion.

One or more items from the contained subforms can be selected as the filter criterion. The respective repetition group of the main form (for which the import format is defined) must also be specified (Fig. 1, highlight 4).

When performing the import, only the repetitions in which the entry in the import file is greater than the previously saved entries in all of the patient's datasets will be imported.

For example, in the case of measurement values with measurement times in a repetition, this can be used to ensure that only new measurements are imported.

Maximum number of repetitions during import sT5.0-6.3, #8324

If there is a very large number of repetitions (approx. more than 1,000) within a dataset, this can result in memory problems in secuTrial® DataCapture. It is not possible to state an exact limit for the number of processable repetitions because this depends on numerous factors, e.g. the configuration of the application and the number of values within the repetitions.

After testing the respective projects to determine the applicable limit, a maximum number of permitted repetitions can then be specified for each import. When this limit is reached, the import will be stopped during the analysis and an error message will be displayed. The error message contains a system element (in which the number of contained repetitions is listed, first sentence in Fig. 3) and a configurable text (max. 1,000 characters) (see Fig. 1, highlight 3, second sentence in Fig. 3).

This configuration can be specified in the import configuration and in the import format. For a multi-mass import, the settings from the configuration are used. For a mass import and single form import, the settings from the import format are used.

To calculate the number of repetitions in the import file, all repetitions in a dataset are added together, regardless whether they are contained in a single repetition group or multiple repetition groups. Repetitions that have previously been excluded by a filter (see below) will not be taken into account.



Fig. 3: Error message upon exceeding the maximum permitted number of repetitions during a single form import in DataCapture.

Extended date formats #8636

When entering import mappings for date and text items, in addition to the selection list with preset data formats displayed according to item type, it is now also possible to freely enter formats for the imported value. To do this, select the option "other format" in order to enter the expected date or time format in a text field as required. As date formats can also contain the names of months, if a free text entry is selected, it is also possible to select the language with which the imported values are to be analysed (see Fig. 4).

The date formats can be specified with the following symbols (Java SimpleDateFormat, note the use of capitals and lower case letters!). Each date/time element displayed in the item type must be entered in the new format.

- yy, yyyy
 = year. Full year dates are entered as "yyyy". If two-digit year dates "yy" are entered, these are interpreted within the time frame of 20 years in the future and 80 years in the past calculated from

the current date. For example, if an import is performed in 2016, the year date "28" will be interpreted as "2028", but "66" will be interpreted as "1966".

- M, MM, MMM, MMMM
= month. For a two-digit entry, leading zeros might be expected. For the three-digit entry "MMM" an abbreviation of the month name might be expected, for the four-digit entry "MMMM" the complete month name. As month names are language specific, it is necessary to specify the language which is to be used during the import.
- d, dd
= day in month. For a two-digit entry, leading zeros might be expected.
- H, HH
= hour (0-23). For a two-digit entry, leading zeros might be expected.
- m, mm
= minute (0-59). For a two-digit entry, leading zeros might be expected.
- s, ss
= seconds (0-59). For a two-digit entry, leading zeros might be expected.

If partial entries might be missing in the file which is to be imported, either all separators must exist for the missing entries or the missing elements must be at the end of the date text. If there are no separators in the date, all missing elements must be replaced with placeholders.

The above information can also be found in the online help text, which can be opened by clicking on the question mark next to "Date format" in the heading of the import mapping properties. It is also possible to test date formats and values against each other there (see Fig. 5).

| No. | External variable * | Internal variable | Mapping entries (3) | Date format ¹ | Import unit / Option mapping | Delete |
|-----|---------------------|--|---------------------|---|--|--------|
| | | | | External option | - Internal option | |
| 1 | Date 1 | Itemmatrix - DD-MM-YYYY HH:MM <ddmmYYYYhhmm> | | <input type="radio"/> selection | <input checked="" type="radio"/> dd-MM-yy H:m < current language > ² | Delete |
| 2 | Date 2 | Was wurde gemacht? - Geburtsdatum <wann> | | <input checked="" type="radio"/> dd.MM.yyyy HH:mm | <input type="radio"/> other format | Delete |
| 3 | Date 3 | Was wurde gemacht? - Späteres Datum <ddmmYYYY> | | <input checked="" type="radio"/> < as entry > | <input type="radio"/> other format | Delete |

Fig. 4: Possible entries of date formats when mapping date items: free entry with language selection (first row, highlight 2), selection from a preset list (second row), <as entry> (third row). Click on the icon in the title row (highlight 1) to open a help text explaining the formats (see below).

Examples

To check your format, you can enter an example here. The imported date parts will depend on the respective item type!

| Date format | External date | Internal date | |
|---|---|---------------------|-------------------------------------|
| dd MMM yyyy HH:mm:ss.S | 05 Jun 2016 17:33:02.147 | 05.06.2016 17:33:02 | |
| yyMMddHHmm | 1606051733 | 05.06.2016 17:33:-- | |
| <input type="text" value="yy-M-d H:m"/> | <input type="text" value="16-6-5 11:59"/> | 05.06.2016 11:59:00 | <input type="button" value="Test"/> |

Fig. 5: Excerpt from the help window for the date formats with examples and test option.

Creating centres sT5.0-5.3, #8253

During an import, any unknown centres contained in the imported data will be newly created if the participant is either assigned to the import project as a project participant or if the participant's role has been specified for future centres for this project.

The centre will then be created for the import project and all participants with roles for future centres within this project will be assigned to the centre with these roles.

If no future role can be found, the centre will not be created and the dataset import will be rejected with an error message.

If a centre with a role assignment was successfully created, the next import steps for this dataset with this role will be performed.

2. Web services

As is the case with the existing import web service, the export web services are implemented as SOAP interfaces.

When importing and exporting any type of data, the role rights of the currently logged in participant are checked. Via the web services, it is only possible to export or import the data that is normally accessible when a participant is logged in to DataCapture.

Password expiry

#8578

Like the import service, the new export web services implement the methods `authenticate` and `terminate`. In order to use the web services, participants created in secuTrial® must authenticate themselves with their user name and password. However, as these services are particularly intended for automatic exchange of data, it is recommended that separate participants are created for this purpose. The otherwise usual expiry period for the validity of passwords can then be deactivated for these participants.

This configuration also applies for the normal participant login for the secuTrial® tools.

The screenshot shows the 'AdminTool: Edit participant' form. It includes fields for Last name (Smith), First name (John), Title, Gender (Female/Male), User-ID (js), and New password. A 'Create password' button is next to the password field. The 'Password does not expire' checkbox is highlighted with an orange circle. Other fields include 'Password changed' (not yet), 'Last Login' (13.11.2015 - 11:38:55 (CET)), 'Creation date of participant' (29.08.2016 - 16:10 (CEST)), and 'Status' (active/inactive).

Fig. 6: Option for deactivating password expiry (highlighted) on the participant editing page in the AdminTool.

Note: Due to the introduction of this new configuration, the procedure for logging in to the import web services has also changed: it is no longer possible to log in to a service if the password is valid but has expired and the new validity option has not been selected.

Session timeout

#8477

Until now the session timeout for all web services was set to 1 minute. This time can now be configured using the new start parameter `"-DSRTWebServiceSessionTimeout"` in the WOMonitor for all web services of the respective tool.

The timeout is entered in seconds (also see section: Deployment - WOMonitor).

Export project data sT5.0-5.2, #8540, #8373

This export service generates information about the centres, patients and all structure data and metadata for an individual patient in a project. For individual patients, this information comprises the created visits, adverse events and images. This information corresponds to the different views of the patient's form overview including all status information. In addition, the editing history of the forms can be exported using this web service.

This information can then be used to export individual forms with the saved form data.

In order to use this web service, it must be activated for the respective DataCapture by setting the start parameter `"-DSRTProjectDataService=true"` in the WOMonitor (also see section: Deployment - WOMonitor).

The WSDL of this web service can be called up via the following URL:

```
[DataCapture-URL]/ws/ProjectDataService?wsdl
```

This service implements the following operations (exact description below):

- authenticate
- terminate
- projectData
- centreData
- patientData
- visitData
- adverseEventData
- casenodeData
- imageData
- formData

All operations return a result object comprising:

- statusCode (1=successful, 0=failed)
- errorCode (0=no error, for codes see: Error codes)
- message

The status code indicates the success or failure of the operation. Status code=1 shows that the operation was successful; upon authentication the session ID is returned as the event object in the "message". If an operation fails, the problem is classified by the error code and the "message" will contain a description of the error.

If it is successful, in addition to this basic information the data export operations will contain data objects or lists of data objects containing the respectively required data.

Description of individual operations

"authenticate"

Login to the secuTrial® server with entry of a valid participant in the customer area; generates a session with which additional operations can be performed.

| | |
|---------------------------------------|---|
| <i>Specifications in the request</i> | |
| customerId | DB customer abbreviation (unique within a secuTrial® installation) |
| username | User name (=login) of the participant (unique within a customer) |
| password | Participant's password |
| <i>Specifications in the response</i> | |
| message | ID of the created session with successful authentication, otherwise error message |

"terminate"

Logout from the secuTrial® server and termination of the session

| | |
|--------------------------------------|---|
| <i>Specifications in the request</i> | |
| sessionId | ID of the session which is to be terminated |

"projectData"

List of all centres created in the project.

| | |
|---------------------------------------|--|
| <i>Specifications in the request</i> | |
| sessionId | ID of the current session |
| project | Schema name of the project (unique within a secuTrial® installation) |
| <i>Specifications in the response</i> | |
| project | Schema name of the project (unique within a secuTrial® installation) |
| centres | List of centres in the project (as " CentreBean ") |

"centreData"

List of all patients contained in a centre

| <i>Specifications in the request</i> | |
|---------------------------------------|--|
| sessionId | ID of the current session |
| project | Schema name of the project (unique within a secuTrial® installation) |
| centre | Centre name (unique within a customer) |
| <i>Specifications in the response</i> | |
| project | Schema name of the project (unique within a secuTrial® installation) |
| centre | Centre name (unique within a customer) |
| patients | List of all patients within the centre (as "PatientBean") |

"patientData"

List of all events created for a patient and their status: visits, adverse events, casenode, image forms

| <i>Specifications in the request</i> | |
|---------------------------------------|---|
| sessionId | ID of the current session |
| project | Schema name of the project (unique within a secuTrial® installation) |
| centre | Centre name (unique within a customer) Entry is optional. If no name is entered for a centre, the patient's home centre will be used. |
| patient | Specification of a patient (as "PatientBean") |
| <i>Specifications in the response</i> | |
| project | Schema name of the project (unique within a secuTrial® installation) |
| centre | Centre name (unique within a customer) |
| patient | Specification of a patient (as "PatientBean") |
| adverseEvents | List of all adverse event examinations (as FollowupStatusBean) |
| image | Summary of the status of all image forms (as FormsetStatusBean) |
| casenodes | List of all casenode form families (as FormsetStatusBean) |
| visits | List of all visits (as VisitStatusBean) |

"visitData"

List of all forms within a visit with their respective form status.

| <i>Specifications in the request</i> | |
|---------------------------------------|---|
| sessionId | ID of the current session |
| project | Schema name of the project (unique within a secuTrial® installation) |
| centre | Centre name (unique within a customer) Entry is optional. If no name is entered for a centre, the patient's home centre will be used. |
| patient | Specification of a patient (as "PatientBean") |
| visit | Specification of the visit (as VisitBean) |
| <i>Specifications in the response</i> | |
| project | Schema name of the project (unique within a secuTrial® installation) |
| centre | Centre name (unique within a customer) |
| patient | Specification of a patient (as "PatientBean") |
| visit | Specification of the visit (as VisitBean) |

| | |
|-------|---|
| forms | List of all forms (as FormStatusBean) |
|-------|---|

"adverseEventData"

List of all examinations for an adverse event with the summarised status of all forms in an examination

| | |
|---------------------------------------|---|
| <i>Specifications in the request</i> | |
| sessionId | ID of the current session |
| project | Schema name of the project (unique within a secuTrial® installation) |
| centre | Centre name (unique within a customer) Entry is optional. If no name is entered for a centre, the patient's home centre will be used. |
| patient | Specification of a patient (as "PatientBean") |
| ae | Specification of the AE (as AdverseEventBean) |
| <i>Specifications in the response</i> | |
| project | Schema name of the project (unique within a secuTrial® installation) |
| centre | Centre name (unique within a customer) |
| patient | Specification of a patient (as "PatientBean") |
| ae | Specification of the AE (as AdverseEventBean) |
| forms | List of all forms for an AE examination (as FormStatusBean) |

"casenodeData"

List of all possible casenode forms with their respective form status

| | |
|---------------------------------------|---|
| <i>Specifications in the request</i> | |
| sessionId | ID of the current session |
| project | Schema name of the project (unique within a secuTrial® installation) |
| centre | Centre name (unique within a customer) Entry is optional. If no name is entered for a centre, the patient's home centre will be used. |
| patient | Specification of a patient (as "PatientBean") |
| <i>Specifications in the response</i> | |
| project | Schema name of the project (unique within a secuTrial® installation) |
| centre | Centre name (unique within a customer) |
| patient | Specification of a patient (as "PatientBean") |
| sets | List of all form families (as FormsetDetailedStatusBean) |

"imageData"

List of all created image forms with their respective form status

| | |
|---------------------------------------|---|
| <i>Specifications in the request</i> | |
| sessionId | ID of the current session |
| project | Schema name of the project (unique within a secuTrial® installation) |
| centre | Centre name (unique within a customer) Entry is optional. If no name is entered for a centre, the patient's home centre will be used. |
| patient | Specification of a patient (as "PatientBean") |
| <i>Specifications in the response</i> | |
| project | Schema name of the project (unique within a secuTrial® installation) |
| centre | Centre name (unique within a customer) |

| | |
|---------|---|
| patient | Specification of a patient (as "PatientBean") |
| label | Name of the form family |
| forms | List of forms (as FormStatusBean) |

"formData"

Lists the form status of an individual form and the editing history.

| | |
|---------------------------------------|---|
| <i>Specifications in the request</i> | |
| sessionId | ID of the current session |
| dataRecord | Specification of the form (as FormDataRecordBean) |
| <i>Specifications in the response</i> | |
| dataRecord | Specification of the form (as FormDataRecordBean) |
| status | Status of the form (as DocumentStatusBean) |
| history | List of form edits (as DocumentHistoryBean) |

Data objects

The different return data objects contain the following specifications:

"CentreBean"

| | |
|------|---|
| name | Centre name (unique within a customer area) |
|------|---|

"PatientBean"

| | |
|-----------|---|
| psd | The patient's Pat-ID (unique within a customer area, only set if the participant role is permitted to see this pseudonym) |
| aid | The patient's Add-ID (it can be zero, unique within a customer area, only set if the participant role is permitted to see this pseudonym) |
| labid | The patient's Lab-ID (unique within a customer area, only set if the participant role is permitted to see this pseudonym) |
| entrydate | Entry date of the patient in the project in the format "dd.MM.yyyy" |

"VisitBean"

| | |
|-------|--|
| label | Name of the patient visits as displayed in DataCapture (depending on type with integrated numbering, see below.) |
| date | scheduled visit date in the format "dd.MM.yyyy" |
| nr | The numbering corresponds to the patient's visit plan (scheduled visits are consecutively numbered in their order of creation, unscheduled visits are listed by type in their order of creation) |

"VisitStatusBean" (extended VisitBean)

| | |
|--------|--|
| status | Summarised status of all forms for the visit (as DocumentStatusBean) |
|--------|--|

"AdverseEventBean"

| | |
|--------|---|
| aenr | Number of the adverse event (consecutive numbering within the patient in the order of creation) |
| aedate | Date of the adverse event in the format "dd.MM.yyyy-HH:mm" |
| issae | Distinction between AE / SAE (boolean, true=SAE) |
| fudate | Date of the examination in the format "dd.MM.yyyy-HH:mm" |

"FollowupStatusBean" (extended AdverseEventBean)

| | |
|--------|--|
| status | Summarised status of all forms for the examination (as DocumentStatusBean) |
|--------|--|

"FormsetStatusBean"

| | |
|--------|--|
| label | Name of the form family |
| status | Summarised status of all forms from the form family displayed in the patient (as DocumentStatusBean) |

"FormsetDetailedStatusBean"

| | |
|-------|---|
| label | Name of the form family |
| forms | List of forms (as FormStatusBean) |

"FormStatusBean"

| | |
|--------|---|
| form | Database table name of the form (unique within a project) |
| status | Status of the form (as DocumentStatusBean) |

"DocumentStatusBean"

| | |
|----------------|---|
| completion | Completion status of the form(s) according to the rule structure: 0 = not saved / empty, 2 = partially completed, 4 = fully completed |
| review | Combined review status (bit mask): -4= not savable (all), -1 = not saved (all), 0 = not saved / without, 32 = review A (all), 64 = review B (all), 128 = manual freeze (all), 512 = review A (partial), 1024 = review B (partial), 256 = rule freeze (all) |
| query | Query status: 0 = not saved / without or withdrawn query, 1 = with open query, 2 = with answered query, 4 = with closed query |
| comment | Comment status: 0 = not saved / without, 1 = with |
| sdv | SDV status: 0 = not saved, 1 = not executed, 2 = not necessary, 16 = in editing, 32 = verified, 64 = verified with problems |
| error | Error status: 0 = not saved / without, 8 = with errors |
| warning | Warning status: 0 = not saved / without, 16 = with warnings |
| dec | DEC status: 0 = not saved / without, 32 = set with DEC |
| patient | Patient status: 0 = active, -5 = deceased, -2 = frozen |
| storable forms | Number of forms which can be saved (with database table) |
| documents | Number of saved documents |

"DocumentHistoryBean"

| | |
|-----------|---|
| date | Editing date in the format "dd.MM.yyyy-HH:mm:ss" |
| user | Full name of the editing participant in the format "title, first name, surname" or set text "Patient" if edited by the patient (as part of PSD) |
| event | Written description of the editing (in the language used by the user interface at the time) |
| eventType | Coded information about the editing (corresponds with the "sigstatus" entry in the ExportSearchTool exports): |

| | |
|---------|---|
| | 1 = data edited 2 = review A 3 = review B 4 = comment 5 = query asked 6 = query answered 7 = data freeze 8 = data unfreeze 9 = sdv 10 = revoke review A 11 = query resolved 12 = data entry complete 13 = modify data 14 = manual freeze 15 = data import 16 = revoke entry complete 17 = Query withdrawn 19 = DDE entry 20 = DDE entry completed 21 = DDE entry reopened 22 = DDE comparison finished 23 = DDE entry corrected 24 = revalidate |
| version | Project version with which the editing was performed (assigned label in the productive area, project version time stamp in the setup area) |

Form data exports sT5.0-5.1, #8254, #8477

This export service can be used as an interface to the automatic export of individual patient form data. The form is selected by specifying the project, patient, event (visit or adverse event) and the required form.

In order to be able to use this web service, it must be activated for the respective DataCapture by setting the start parameter "-DSRTFormDataExportService=true" in the WOMonitor (see also section: Deployment - WOMonitor).

The WSDL of this web service can be called up via the following URL:

[DataCapture-URL]/ws/FormDataExportService?wsdl

This service implements the following operations (exact description below):

- authenticate
- terminate
- export

All operations return a result object comprising:

- statusCode (1=successful, 0=failed)
- errorCode (0=no errors)
- message

The status code indicates the success or failure of the operation. Status code=1 shows that the operation was successful; upon authentication the session ID is returned as the event object in the "message". If an operation fails, the problem is classified by the error code and the "message" will contain a description of the error.

If it is successful, in addition to this basic information the data export operations will contain data objects or lists of data objects containing the respectively required data.

Description of individual operations

The operations "authenticate" and "terminate" are the same as the ones described in the project data service.

"export"

Returns the data (content) of a form. The form is identified via the form table name or the identifier of an import format. Depending on the form type, the visit or adverse event must be defined with a corresponding bean. The sent bean filled with the item data of the form is then returned as the result.

If the form was identified via an import format, the import format is also used for returning the values and is recoded if necessary.

| | |
|---------------------------------------|---|
| <i>Specifications in the request</i> | |
| sessionId | ID of the current session |
| dataRecord | Specification of the form (as FormDataRecordBean) |
| <i>Specifications in the response</i> | |
| documentid | Document ID of the form |
| dataRecord | Specification of the form (as FormDataRecordBean) |

Data objects

"FormDataRecordBean"

| | |
|---------|---|
| project | Schema name of the project (unique within a secuTrial® installation) |
| centre | Centre name (unique within a customer) Entry is optional. If no name is entered for a centre, the patient's home centre will be used. |
| patient | Specification of a patient (as "PatientBean") |
| visit | optional: Specification of the visit (as VisitBean) |
| ae | optional: Specification of the adverse event examination (as AdverseEventBean) |
| form | Specification of the form (as table name or import format identifiers) |
| item | optional: List of form data (as FormDatItemBean) |

"FormDatItemBean"

| | |
|---------|---|
| key | Column name of the item; items within a repetition are extended with the hash value of the repetition group |
| value | Saved item value; not entered values (NULL) are returned exported as empty text. If the was identified via an import format, all item values with a defined value mapping will be re-coded. |
| reindex | Position of the repetition (starting at 0); values from main forms are set to "-1". |

Error codes

The following numbers are displayed as error type codes for the various services in the *errorCode* field. Most of the codes are only used by one service, but a few of the codes may be used by multiple services.

| | | |
|---------------------------|-----------------------------|-------------------------------|
| All services | | |
| 0 | ERRORCODE_NO_ERROR | No error |
| 1 | ERRORCODE_NOT_AUTHENTICATED | Login failed |
| 2 | ERRORCODE_PASSWORD_EXPIRED | Password has expired |
| ProjectDataService | | |
| 201 | ERRORCODE_OPERATION_ERROR | Error executing the operation |
| 202 | ERRORCODE_ACCESS_ERROR | Not authorised |
| FormDataService | | |
| 301 | ERRORCODE_INVALID_PATIENT | Invalid patient |

| | | |
|--------------------------------|--|--|
| 302 | ERRORCODE_FORMDATA_ERROR | Invalid form |
| FormTransmissionService | | |
| 100 | ERRORCODE_MISSING_CONFIG | Missing import configuration (or format) |
| 101 | ERRORCODE_MISSING_DATA | No data entered |
| 102 | ERRORCODE_MISSING_PROJECT | No project specified |
| 103 | ERRORCODE_INVALID_PROJECT | Invalid project specified |
| 1002 | ANALYSIS_WARN | The import contains valid and invalid data (warning) |
| 1003 | IMPORTED_WARN | The import contains warnings (warning) |
| 1004 | IMPORTED_WITH_ERRORS | Only some of the data was able to be imported. (warning) |
| 1005 | IMPORTED_WITH_RULE_VIOLATION | Imported with rule violations (warning) |
| 1006 | DUPLICATE_PATIENT_IDENTIFIERS_IN_IMPORT | A patient is duplicated in the import (warning) |
| 1007 | DUPLICATE_IIF_IDENTIFIERS_IN_IMPORT | An import identifier is duplicated in the import (warning) |
| 1008 | UNKNOWN_CENTRE_IDENTIFIER | New centre (warning) |
| 1009 | IMPORTED_ERROR | Import error |
| 1010 | PARSE_ERROR | Parse error |
| 1011 | ANALYSIS_ERROR | Analysis error: no valid datasets |
| 1012 | DATA_VALUE_PARSE_ERROR | Invalid (visit / AE / patients) date |
| 1013 | INVALID_PROJECT_IDENTIFIER | Invalid project |
| 1014 | INVALID_CENTRE_IDENTIFIER | Invalid centre |
| 1015 | INVALID_FORM_IDENTIFIER | Invalid form |
| 1016 | INVALID_VISIT_DATA | Invalid visit data |
| 1017 | INVALID_AE_DATA | Invalid adverse event data |
| 1018 | PATIENT_NOT_FOUND | Patient not found |
| 1019 | PATIENT_WITH_IMPORTIDMAPPING_NOT_FOUND | Patient was not found via the import form field |
| 1020 | PATIENT_WITH_IMPORTIDMAPPING_FOUND_MORE_THAN_ONE | Multiple patients were found via the import form field |
| 1021 | PATIENT_PSD_MISMATCH | Pat-ID does not match the patient |
| 1022 | PATIENT_PID_MISMATCH | Patient ID does not match the patient |
| 1023 | PATIENT_AID_MISMATCH | Add-ID does not match the patient |
| 1024 | PATIENT_LABID_MISMATCH | Lab-ID does not match the patient |
| 1025 | PATIENT_ID_MISMATCH | The entered Pat-ID does not match the patient |
| 1026 | PATIENT_IDENTIFIER_MISSING | The entered pseudonyms do not match |
| 1027 | PATIENT_PID_MISSING | Pat-ID is missing |
| 1028 | PATIENT_AID_MISSING | Add-ID is missing |
| 1029 | PATIENT_LABID_MISSING | Lab-ID is missing |
| 1030 | PATIENT_PID_COLUMN_MISSING | Pat-ID column is missing |
| 1031 | PATIENT_AID_COLUMN_MISSING | Add-ID column is missing |
| 1032 | PATIENT_LABID_COLUMN_MISSING | Lab-ID column is missing |
| 1033 | PATIENT_IDMAPPING_COLUMN_MISSING | The column for identifying the patient via the form field is missing |
| 1034 | PATIENT_IDMAPPING_IMPORT_COLUMN_COLLISION | The import contains additional data for the form field which is being used to identify the patient |
| 1035 | PATIENT_STATUS_INACTIVE | Inactive patient |

| | | |
|------|-------------------------------|--|
| 1036 | PATIENT_STATUS_DEAD | The patient is deceased |
| 1037 | NO_PATIENT_EDIT_RIGHT | No editing rights for this patient |
| 1038 | PATIENT_NOT_IN_PROJECT | The patient is not in the project |
| 1039 | PATIENT_DIFFERENT_CENTRE | The patient is assigned to a different centre |
| 1040 | PATIENT_WRONG_CENTRE | The patient is assigned to a different centre |
| 1041 | INVALID_ENTRYDATE | Invalid entry date |
| 1042 | NO_VISIT | No visits were found |
| 1043 | NO_VISIT_FOR_VALUE | No visits were found |
| 1044 | VISIT_NOT_EDITABLE_FOR_CENTRE | Visits cannot be edited for this centre |
| 1045 | VISIT_VALUE_AMBIGUOUS | Visit is not clearly identified |
| 1046 | VISIT_DATA_AMBIGUOUS | Visit is ambiguous (form in multiple visits). |
| 1047 | VISITS_COLUMN_MISSING | The column for visits is missing |
| 1048 | VISIT_VALUE_MISSING | The entry for the visit is missing |
| 1049 | VISIT_DATE_MISSING | The visit date is missing |
| 1050 | NO_CASENODE | There is no project entry for patients |
| 1051 | NO_AE | No adverse event was found |
| 1052 | NO_FOLLOWUP | No AE follow-up examination was found |
| 1053 | AE_DATE_MISSING | The adverse event date is missing |
| 1054 | AE_NR_MISMATCH | The adverse event data is invalid (date and number do not match) |
| 1055 | FU_DATE_MISSING | The AE follow-up examination date is missing |
| 1056 | FU_DATE_AMBIGUOUS | AE follow-up examination date is ambiguous |
| 1057 | DOCUMENT_IS_READONLY | The document can only be read |
| 1058 | FORM_IS_DDE | The form is a DDE form |
| 1059 | PRE_CONDITIONS_FAILED | The form conditions have not been fulfilled |
| 1060 | COULDNT_LOCK_DOCUMENT | Unable to freeze form for editing |
| 1061 | GENERAL_EXCEPTION | General error |
| 1062 | FORM_NOT_IN_VISIT | The form does not exist in the visit |
| 1063 | FORM_UNUSED | Form unused |
| 1064 | FORM_NO_DATA | The form does not contain any data |
| 1065 | DATARECORD_NOT_IMPORTED | The dataset was not imported |
| 1066 | CREATION_NOT_POSSIBLE | Not possible to create |
| 1067 | PROJECT_CLOSED_FOR_EDITING | Data entry has been closed in the project |
| 1068 | KEY_VALUE_MISMATCH | Invalid data values |

Web services Java client

#8682

To make it easier to use the different DataCapture web services, a basic implementation for Java clients has now been provided. This can be used to communicate with the secuTrial® web service operations and convert the return values to Java Bean objects.

The stub implementation of the clients is provided as a Zip file. This contains:

- Readme.md
Text file with instructions for using the clients
- secutrialwsclients.jar
Java implementation of the secuTrial® web service clients
- lib
All of the Java libraries used

- src
Source code of the client implementations
- doc
API Javadoc

3. Messages: Form as a PDF attachment in emails sT5.0-7.0, #8321

In messages that have been defined as form or rule messages, all of the associated forms can now also be sent as a PDF attachment with the message. This is specified in the message definition (see Fig. 7).

When the message is triggered in DataCapture, all of the currently saved forms are generated as a PDF and attached to the message if it is being sent as an email. This does not apply to internal messages.

Fig. 7: Definition of a form message with PDF attachment specified (see highlight).

4. Printed validation report sT5.1-4, #8255

Similar to a query report, it is possible to create a separate printout of the validation report. In this printout, all notifications and any queries or comments for every item with error messages are summarised on one page. On this page there are free text fields for entering value changes, justifications and a signature. All pages relating to a patient are combined in a PDF file and all of the PDF files are bundled together for downloading in a Zip file with sub-folders for each centre.

Print view

The pages of the printout are grouped into the following sections:

- A) Title row
The name of the project, the date of the printout, the centre and the patient are listed here. This title row is repeated at the top of every printed page if more than one page is required to display the information about an individual item due to the amount of text, error messages, queries or comments.
- B) Information
This section contains the entered printout title (1) and the information text (2).
- C) Item
The respective item is listed with context information (3, configurable scope) and all of the error messages, queries and comments. The display of queries and comments can be selected for each printout. The saved values in the form and a free text field for entering possible value changes (4) can also be displayed (configuration per report).
- D) Answer
In this section a reason can be entered for the current value or a value change. The information text can be configured (5).
- E) Signature
In this section a signature must be entered for the explanations and/or value changes. The sentence requesting that the name is entered in legible block letters is optional (6). The label below the signature line (7) can also be configured.

The printout can be launched directly from the open report or from the report overview. In the latter case, a page will open to pre-filter the printout. The printout is always generated in the background and is then offered as a Zip file for downloading.

secuTrial®
Example Study
29.08.2016 - 16:38 (CEST)

Centre: **Berlin**
Patient: Pat-ID **fgj001** Add-ID **test001** Rand-No

Validation printout

Infotext

| | | | |
|-------------|---------------------------|---------------|-------------------|
| Visit plan: | Visite | Woche 1: | 14.10.2014 (CEST) |
| Form: | Formular 1 | Document-No.: | 1467 |
| Question: | Was wurde gemacht? | | |
| Item: | Date | | |

Error messages:

1) Input not possible, if no date of birth has been provided!
Input impossible if ... NULL {mnpn0form1.wann, current visit} == ["NULL" value]
current initial value:

2) Date must not lie in the future!
Input impossible if ... "31.08.2016 12:05" > "29.08.2016 16:35" [current date / time]

Query #1381 ? Dates shouldnt be guessed at all.
! The template was unclear.

Query #1382 ? Please provide an proper answer.
! Query automatically answered because of value change.

Comment #1361 c I guessed that date from my memory.

| | | |
|-------------|---------------|--|
| Item value: | stored value: | 31.08.2016 12:05 |
| | new value: | <input style="width: 90%;" type="text"/> |

Please enter your answer here:

6 Name (in block letters) _____

7 _____

Date _____

secuTrial® 5.0.2.11, 2016

Signature _____

Page 1 of 2

Fig. 8: Example page of the validation printout with 2 error messages, 1 query and 1 comment.

Configuration in the FormBuilder

When selecting the "Print" option, the following sections can be specified (see Fig. 8 and Fig. 9):

1. Title
This text (max. 200 characters) is used as the menu link and the header in the printout.

2. Information text on the print page (HTML)
This text will be displayed below the title on the printout. It can be formatted with HTML (please ensure the validity of the format!).
3. Context information
This determines the scope of the context information for the respective item. The option "all" will display the generally valid item text, question text, form name, document number and any visit or adverse event information for the individual form. If "reduced" is selected, only the generally valid information will be displayed and not the individual information.
4. Item value
The item value saved in the form will be displayed, including an additional free text field for entering a possible value change.
5. Instruction in the comment area
This text (max. 200 characters) is displayed in the free text field for entering a reason. Unless otherwise specified, a default text will be displayed.
6. Separate section for signature
If this option is selected, a line for entering a name in clearly legible form (block capitals) will be inserted above the signature line.
7. Alternative to the word "Signature"
An alternative word to "Signature" can be entered here (max. 200 characters).

| | |
|--------------|---|
| Help | <input type="checkbox"/> Show |
| Print | <input checked="" type="checkbox"/> Paper based answers |
| | Validation printout <input type="text" value="Validation printout"/> Title * |
| | <pre>Infotext</pre> |
| | Info text on print page (HTML) |
| | Context information: <input checked="" type="radio"/> all, including visit or adverse event and document-ID <input type="radio"/> reduced, only form family ? |
| | <input checked="" type="checkbox"/> Item value ? |
| | Please enter your answer here: <input type="text"/> Instruction in comment area (Default) |
| | <input checked="" type="checkbox"/> separate section for signing |
| | Signature <input type="text"/> "Signature" (Default) ? |

Fig. 9: Definition of the validation report printout for paper-based answers.

Report overview printout

If the printout has been configured, in the report overview the name of the printout title is displayed as an additional link behind the name of the validation report.

This link opens a small browser window for configuring the scope of the printout. The following options can be selected:

- Centre: all centres or a single centre selected from the participant's list of project centres
- If a centre is selected, Patient: all patients or a single patient selected from the of patients for the selected centre
- Visit: all visits or a single visit selected from the list of project templates (if no patient has been selected) or from the list of visits for the selected patient
- Form: all forms or a single form selected from the list of forms for the selected project
- If a single form is selected: all questions or a selected question from the form
- If a single question is selected: all items or a selected item from the list of items for the question
- Queries: include all queries for the selected items
- Comments: include all comments for the selected items

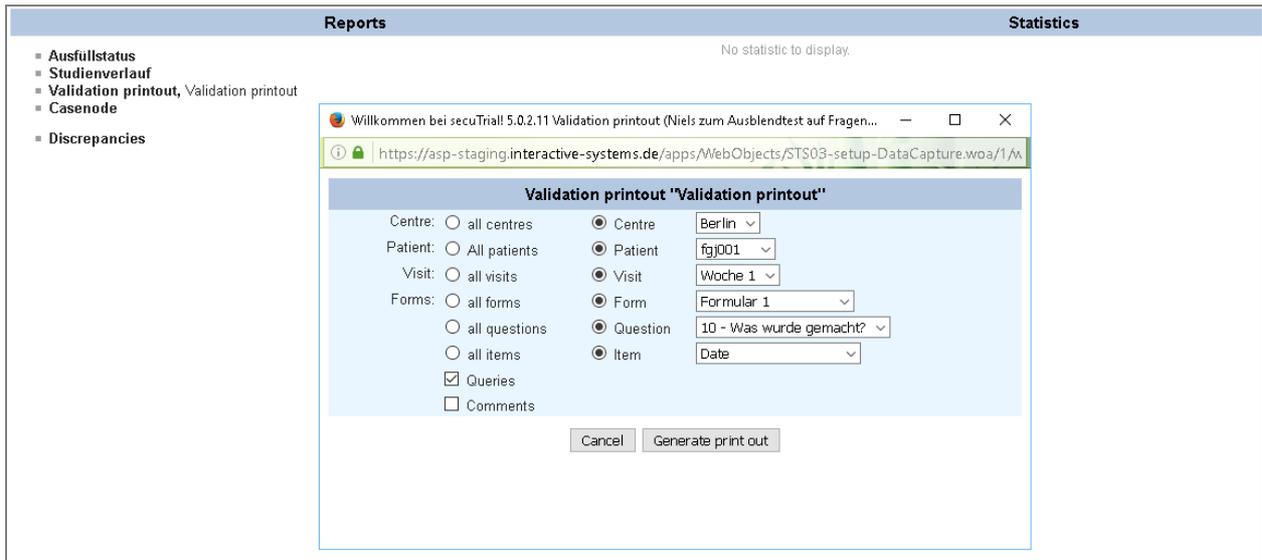


Fig. 10: Report overview with open selection window for printing out the validation report.

After selecting the required options, you can then generate the printout. During this process a progress bar will be displayed in the selection window. The generation of the printout can also be cancelled by clicking on the button in the progress window.

After the printout has been generated, a link for downloading it will then be displayed in the window. All of the PDF data is compressed into a Zip file for transfer.

Printout from an open report

A printout can also be generated from open validation report. In this case, all of the currently displayed validation notifications will be printed. There is no separate selection or filtering option. The inclusion of queries and comments depends on the query and comments status currently displayed in the report window (see below).

Click on the menu option to open the generation window and launch the printout in the background. The procedure is then exactly the same as for creating a printout from the report overview.

5. Extended report options

Comment status in the validation report

In the validation report, the comment status for the respective item can now also be displayed. The list of options for the displayed properties next to the query status has been accordingly extended.

Printing query reports

For the query report, the printout for paper-based answers can be configured in advance in the Form-Builder. The options available in the validation printout have also been added here:

- Item value
- Separate section for signature

In the title row at the top right-hand side of every printout page, the printout title has been replaced with the current date.

In the signature line, the label for the first part has been changed to "Date" ("Place" has been deleted).

6. FormEngine

Metadata in rule conditions sT5.2-5.1, #8261, #8553

Metadata refers to information that describes the general environment of the currently open form. This includes (data type of the metadata value in brackets):

- Current centre (text)
- Current country (text)
When using this metadata, please note that it is not mandatory to enter the country of the centre. It is therefore possible to leave out this value.
- Current visit (type)
Every visit that has been defined in the project setup is an own data type and is used to create the patient visits. This type determines the visit label, which treatment arm it belongs to and the displayed forms.
- Current visit date (date)
- Current visit number (numbers)
Visits are separated into scheduled and unscheduled visits in secuTrial® and then consecutively numbered and saved in the database in the order of their creation for a patient. In the case of non-chronological visits, the visit number may differ from the order of display.
- Current visit number according to type (numbers)
The number of the current visit in the patient's visit plan, filtered by the current visit type (for unscheduled visits this is the same number as the current visit number because unscheduled visits are always numbered by type). This numbering reflects the chronological order of display, filtered by type.
- Current total number of visits (numbers)
The total number of all visits for the current patient, regardless of visit type. This numbering reflects the chronological order of display.
- Current adverse event number (numbers)
The adverse events are consecutively numbered in their order of creation.
- Current examination number (numbers)
The examination number is based on the chronological order within the adverse event.
- Current adverse event date (date)
- Current examination date (date)
- Entry date of the patient (date)
- Pat-ID of the patient (text)
- Add-ID of the patient (text)
- Lab-ID of the patient (text)
- Current role (text)
Displayed name of the current role of the logged in participant or patient.

Example visit plan numbering

The numbering of patient visits in secuTrial® is not always obvious. Here is a tabular overview of the numbering used (=number) and possible other values (=number by type, total number) for the metadata comparison.

Let's assume the project visit plan is as follows:

Day 0: "Screening" (scheduled)

Day 1: "Randomization" (unscheduled)

Day 8: "#-2nd treatment" (scheduled, can be repeated as many times as necessary)

"interim unscheduled visit#" (unscheduled, can be repeated as many times as necessary)

If we also assume the following visit plan was created for a patient, then this would result in the different numbering of the visits as follows:

| Visit date | Visit label | Number (saved value) | Number by type | Total number |
|------------|-------------------|----------------------|----------------|--------------|
| 02/03/2016 | "Screening" | 1 | 1 | 1 |
| 03.03.2016 | "Randomization" | 2 | 1 | 2 |
| 10.03.2016 | "1st treatment" | 3 | 1 | 3 |
| 17.03.2016 | "2nd treatment" | 4 | 2 | 4 |
| 18.03.2016 | "Interim visit 1" | 1 | 1 | 5 |
| 19.03.2016 | "Interim visit 2" | 2 | 2 | 6 |
| 24.03.2016 | "3rd treatment" | 5 | 3 | 7 |

This metadata information can now also be selected in rule conditions as the parameter value; the options available for selection also depend on the type of form (current visit is only valid in a visit form).

Definition of rule conditions

In order to use metadata as a parameter value for a rule condition, the initial options available for selection have been extended to include the following (see highlight in Fig. 11):

- own item
- this item ...
- this metadata value ...

If "this metadata value ..." is selected, the required metadata value must be chosen from the dropdown list. The other comparison options are then based on the data type of the selected metadata value. If "current visit" is selected, all visits created for the project can be selected (see Fig. 11, lower area).

Item: Date { c

Rule: { l

Sequence position: Or And

Error message: *

Parameter is read from: *

own item
 this item ...
 this meta data value ...

meta data value: *

Compare or Assign Operator: *

Compare Value: *

Visit: *

Fig. 11: Definition of rule condition with a metadata value as the parameter value (highlight: extended initial options for selection), in this case visit type.

Metadata can also be created as conditions for the hide rule (see Fig. 12).

Note: When using metadata conditions for role-based data entry, please note that – as always – values in hidden items are reset when the form is saved!

Fig. 12: Definition of rule condition with a metadata value as the parameter value, in this case role name.

Assigning values using rules

Metadata can also be used for assigning values by means of rules in a form item. The metadata value that can be assigned depends on the data type of the item:

- Text item:
 - Centre (name)
 - Country (name)
 - Visit (visit label)
- Number item:
 - Visit number
 - Visit number by type
 - Total visit number
 - Adverse event number
 - Examination number
- Date item:
 - Visit date
 - Adverse event date
 - Examination date
 - Entry date of the patient

Fig. 13: Definition of the rule condition to assign a metadata value to an item.

Note: When using rules to assign text values (e.g. centre names), please note that the length of the texts which are being assigned cannot be checked in advance. The item should therefore be able to accommodate the maximum possible length of the text!

Assign a fixed value sT5.3-4.2, #5957

In previous versions, with “Take value from” rules it was only possible to select another item as the source for the value which is being assigned. “Take value from” rules are only executed when opening a form that has not yet been saved.

Now fixed values can also be selected as the source. The type of value depends on the data type of the respective item:

| | |
|---|--|
| Sequence position: | <input type="text" value="10"/> Or <input type="text" value="10"/> And |
| Compare or Assign Operator: * | <input type="text" value="assign value"/> |
| Compare Value: * | <input type="text" value="date / time"/> |
| Compare Value: * (fixed date / time) | <input type="text" value="01"/> . <input type="text" value="01"/> . <input type="text" value="2016"/> <input type="text" value="00"/> : <input type="text" value="00"/> (dd.mm.yyyy hh:mm) |

Fig. 14: Example: Definition of the rule condition to assign a fixed date to a date item.

Optimized user interface for rule preconditions

#8784

To reduce the risk of confusing preconditions and execution conditions, the section for preconditions on the rule editing page in the FormBuilder tool is displayed as hidden (see Fig. 15). To create a precondition, this section can be expanded by clicking on the "Plus" icon or the title.

| Type: * | <input type="text" value="Take value from ..."/> | | | | |
|--|--|--------------|---------------|----------|---------------------------------------|
| Rule name: | <input type="text"/> | | | | |
| Sequence position: | <input type="text" value="30"/> | | | | |
| + Preconditions (0) | | | | | |
| Execution condition (1) | | | | | |
| Position | Error message | Operator | Compare Value | Question | Delete from database |
| <input type="text" value="10"/> | <input type="text" value="10"/> | assign value | date / time | | <input type="button" value="Delete"/> |
| <input type="button" value="Cancel"/> <input type="button" value="Save and back"/> <input type="button" value="Save"/> <input type="button" value="Previous entry"/> <input type="button" value="top"/> | | | | | |

Fig. 15: Editing page (excerpt) for creating conditions for a "Take value from" rule.

If preconditions have already been created, they are always displayed and it is not necessary to expand the section. In contrast to the execution conditions, the preconditions now have a pink background instead of grey (see Fig. 16).

| Type: * | <input type="text" value="Take value from ..."/> | | | | |
|--|--|-----------------|---------------------|----------|---------------------------------------|
| Rule name: | <input type="text"/> | | | | |
| Sequence position: | <input type="text" value="30"/> | | | | |
| Preconditions (2) | | | | | |
| Position | Error message | Operator | Compare Value | Question | Delete from database |
| <input type="text" value="10"/> | <input type="text" value="10"/> <input type="button" value="New and condition"/> | less than value | current date / time | | <input type="button" value="Delete"/> |
| or... | | | | | |
| <input type="text" value="20"/> | <input type="text" value="10"/> <input type="button" value="New and condition"/> | contains | fixed text | | <input type="button" value="Delete"/> |
| New or condition | | | | | |
| Execution condition (1) | | | | | |
| Position | Error message | Operator | Compare Value | Question | Delete from database |
| <input type="text" value="10"/> | <input type="text" value="10"/> | assign value | date / time | | <input type="button" value="Delete"/> |
| <input type="button" value="Cancel"/> <input type="button" value="Save and back"/> <input type="button" value="Save"/> <input type="button" value="Previous entry"/> <input type="button" value="top"/> | | | | | |

Fig. 16: Editing page (excerpt) for a "Take value from..." rule with already created preconditions.

Fixed issues

CustomerAdminTool

#8720 When editing the password file with the aid of the PwdManager in a Java console, it was not possible to change the password if one of the previous 5 passwords was entered as a new password. Although the action was performed without errors, the password was not changed.

This issue has been fixed. Attempts to change to a previous password are now rejected with an error message.

FormBuilder

#8641 The import configurations defined in a project that apply for the entire project and not just for individual forms were not contained in the project documentation dossier.

The import configurations are now listed in the project dossier before the form views.

#8642 In the mappings for an import format, the corresponding outer repetition group must be selected for all items in subforms. In the import format print view, the documentation for the selected repetition group was missing.

This issue has been fixed.

#8648 Import configurations and import formats could not be saved without entering a centre identifier, even if creating patients was not permitted (the centre is necessary for this).

This issue has been fixed. Entering a centre identifier is only mandatory if the user is permitted to create patients in the configuration or format.

#8853 Contrary to the other rules, the "Hide if ..." rule was called "Hide when ..." in English.

The rule has been renamed as "Hide if ..." in English

AdminTool

#8692 The format for entering and displaying date values can be specified via the secuTrial® configuration files for the entire installation. When displaying the patient overview, the patient editing page and the project versions of the centres with CPV in the audit trail, the default format (dd.MM.yyyy) was always used instead of the configured format.

This issue has been fixed.

DataCapture

#8601 When defining external variables for an import format, it is not possible to enter empty spaces before or after the text. If the column headings had empty spaces on either side in the import file, the file could not be imported.

When importing CSV files, leading or trailing spaces are now always removed from column headings.

#8603 It was not possible to perform a mass import in an individual form (exception) if no identified was defined in the selected import format.

This issue has been fixed.

#8805 If a warning before leaving a form without saving was configured in a project and an import was to be performed in an individual open form, the uploaded data could not be imported into the form because it was blocked by the warning window before leaving the form. The warning window was also hidden behind the import window.

This issue has been fixed. When importing uploaded data into the form no warning is displayed after leaving the form.

#8670 In the print view of the patient entry form for a project, all data entered in the form is listed in a text field separated by semicolons. If a confirmation of consent or consent date was configured for display in the form, neither of these were shown in the list.

This issue has been fixed. Both of these entries are now listed in separate columns if they are used in the entry form.

#8717 If a design was specified for a project that was different from the customer design, this design was not used when creating the patient file in PDF form. The customer design was always used.

This issue has been fixed.

#8863 After editing a form, the save message is displayed in an overlay above the form. For many forms, this overlay was moved to the final display position with a certain delay.

The overlay is now immediately displayed without delay in the final position.

Error corrections in 5.0.1

FormBuilder

#8804 The labels in the minimization randomization algorithm configuration for the "Probability" factor and the help text were not clear enough.

The German and English labels and help text have been optimised. The configuration option has been renamed to "Random Element".

#8854 When an individual form with configured double data entry (DDE) was imported into a project without the configured DDE function, It was no longer possible to edit the configuration even though it had not been set in the project.

When importing individual forms the DDE function for the forms is now reset if this function has not been activated for the project. The user is informed about this resetting after uploading the form setup.

Error corrections in 4.9.1

DataCapture

#8837 When importing DICOM files via the Applet, the patient name and any ID information is replaced in the DICOM header with the patient's pseudonym. However, additional information in the header remained under the keys "OtherPatientNames" and "OtherPatientIDs".

Any entries in these keys are now also replaced with the patient's pseudonym.

Issues fixed during development

#8466, #8480, #8481, #8482, #8502, #8525, #8530, #8540, #8546, #8547, #8548, #8549, #8550, #8551, #8552, #8560, #8561, #8562, #8563, #8567, #8570, #8572, #8582, #8583, #8584, #8587, #8588, #8589, #8590, #8591, #8592, #8595, #8596, #8599, #8602, #8603, #8616, #8620, #8621, #8632, #8637, #8640, #8662, #8669, #8669, #8671, #8673, #8674, #8676, #8677, #8678, #8679, #8684, #8688, #8689, #8690, #8691, #8693, #8694, #8696, #8697, #8698, #8699, #8706, #8713, #8715, #8716, #8718, #8721, #8723, #8724, #8725, #8726, #8727, #8731, #8732, #8734, #8735, #8736, #8738, #8739, #8740, #8741, #8744, #8745, #8748, #8750, #8752, #8753, #8755, #8758, #8759, #8760, #8761, #8763, #8764, #8765, #8766, #8767, #8771, #8773, #8774, #8776, #8777, #8780, #8781, #8785, #8790, #8806, #8808, #8810, #8829, #8830, #8842, #8846, #8847, #8848, #8850, #8851, #8852, #8855, #8857, #8858, #8864

Deployment

Database

Adaptation in the FormBuilder with the start parameter "-DSRTAdoptDB=true" is necessary.

WOMonitor

In order to activate the export web services and to configure the session timeout length of the web services, the following start parameters must be entered in the "Additional Arguments" field of required Data-Capture:

Form data export: `-DSRTFormDataExportService=true`

Project data export: `-DSRTProjectDataService=true`

Web service session timeout (seconds): `-DSRTWebServiceSessionTimeout=60`