A detailed overview about **tracked actions** in the audit trail in mint Lesion is given in the following list:

- Creation and deletion of clinical trials:
    - Includes trial details
    - The descriptions contain the name of the trial
- Modification of clinical trials:
    - Includes trial details including new and old for
        - Trial-Name
        - Description
    - The descriptions contain the name of the trial
- Creation and deletion of trial arms/ case descriptions:
    - Includes case description details
    - For trial independent cases the description contains the description of the case
    - For cases in a trial the description contains the name of the trial arm and of the trial
- Modification of trial arms/ case descriptions:
    - Includes case description details including new and old for
- Name
    - Criteria-Name
    - For trial independent cases the description contains the description of the case
    - For cases in a trial the description contains the name of the trial arm and of the trial
- Creation of patients:
    - Includes patient details
    - The description contains the name of the patient and the name of the user who added the patient
- Modification of patients:
    - Includes the patient details including old for
        - Patient-ID
        - Patient-Name
    - The description contains the name of the patient
- Deletion of patients
    - Includes patient details
    - The description contains the name of the patient
- Merge of two patients:
    - Includes patient details after the merge
    - The description contains the name and ID of the patient who was merged and the name and ID of the patient into whom was merged
- Creation and deletion of cases:
    - Includes case details
    - The description of trial independent cases contains the name of the case and the patients name
    - The description for cases in trials contain the name of the patient and the name of the trial

- The description for the deletion of case in a trial contains the case name, patient name and trial name
- Cloning of a case
  - Includes case details
  - Include source case id and case name
  - The description contains the name of the source case and the new case
- Creation, modification and deletion of DICOM series:
  - Including DICOM series details
  - The description test contains the series description of the DICOM series
- Accessing of DICOM series:
  - Includes accessed DICOM series details
  - The description includes the series description and the name of the user
- Creation and deletion of a document task:
  - Includes document task details
  - If there is no task it includes case details
  - The description of a new created document task contains the name of the assessment and the name of the case
  - The description of a deleted document task contains the name of the assessment
- Modification of a task state:
  - Includes task state details
  - The description contains the name of the assessment, the state before the modification and the state after the modification
- Modification of date time of a task:
  - Includes document task details including old and new for
    - Date
  - If there is no task it includes case details including old and new for
    - Date
  - The description includes the name of the assessment and the new date
- Reset of a document:
  - Includes document details including the number of unanswered questions
  - If there is no task it includes case details including the number of unanswered questions
  - The description contains the name of the assessment
- Creation of a template:
  - Includes template details
  - The description contains the type of the template and the text of the header
- Modification of a template header text:
  - Includes old and new for
    - Header text
  - The description contains the type of the template and the template version
- Publishing of a template:
  - Includes old and new for
- Number of published template versions
  - The description contains the type of the template
- Modification of a template version batch:
  - The description includes the type of the template and the template version
- Modification of a template version:
  - Includes document task details including the number of affected cases

- If there is no task it includes case details including the number of affected cases
- The description contains the type of the template and the new template version
- Add a template to a document:
  - Including document task details
  - If there is no task it includes case details
  - The description contains the type of the template and the name of the assessment
- Add a template to an observable / lesion:
  - Includes document task details
  - If there is no task it includes case details
  - The description contains the type of the template
- Add and removal of a template to/from a case:
  - Includes document task details
  - If there is no task it includes case details
  - The description contains the type of the template and the name of the case
- Add and removal a rule configuration from a template:
  - The description contains the type of the rule configuration and the type of the template
- Creation of a workflow:
  - Includes workflow details
  - The description contains the type of the workflow
- Modification of a workflow:
  - Includes workflow details including old and new for
    - Workflow states
  - The description contains the type of the workflow
- Assignment of a workflow:
  - The description contains the type of the workflow and the type of the task
- Publishing of a workflow:
  - Includes workflow details including old and new for
    - Number of published workflow versions
  - The description contains the type of the workflow
- Creation and deletion of an assessment task:
  - Includes assessment task details
  - If there are replacements the description contains the name of the assessment and all replacements
  - The description contains the name of the assessment
- Creation of an assessment revision:
  - Includes case details including the reason for revision
  - The description includes the name of the case and the reason for revision
- Assignment and removal of a user to/from a case:
  - Includes case details including old and new for
    - Assignment role
  - The description contains the name of the user and the assignment role
- Assignment and removal of a user to/from a task:
  - Includes task details including old and new for
    - Assignment role

- The description contains the name of the user, the assignment role and the name of the assessment
- Assignment and removal of a user group to/ from a case:
  - Includes case details including old and new for
    - Assignment role
  - The description contains the name of the user group and the name of the assignment role
- Assignment and removal of a user group to/from a task:
  - Includes task details including old and new for
    - Assignment role
  - The description contains the name of the user group, the name of the assignment role and the name of the assessment
- Answering a nominal question:
  - If there is no change in the category of the question group, it includes question details including new for
    - Answer
  - If there is no change in the category of the question group and the question is a question of a case the description contains the text of the question and the answer text
  - If there is no change in the category of the question group and the question is a question of an assessment the description contains the text of the question, the answer text and the name of the assessment
  - If there is a change in the category of the question group, the description contains the ID of the question
- Answering an interval, a free text and a date question:
  - Includes question details including new for
    - Answer
  - If the question is a question of a case the description contains the text of the question and the answer text
  - If the question is a question of an assessment the description contains the text of the question, the answer text and the name of the assessment
- Removal of an answer:
  - Including question details
  - The description contains the question text and the name of the assessment
- Modification of a question text:
  - Including old and new for:
    - Question text
  - The description contains the type of the question
- Answering of a location and a measurement question:
  - Includes question details including new for
    - Answer
  - The description contains the ID of the question, the answer text and the name of the assessment
- Add a message:
  - Includes
    - Message-Category-Type
    - Message
    - Question
    - Question-ID

- If there is a task it includes task details
- If there is no task it includes case details
  - The description contains the name of the assessment, the name of the case, the category type and the message
- When migration started:
  - The description contains the name of the migration step and the software version
- When migration is finished:
  - The description contains the name of the migration step, the software version and information about the success of the migration

The following columns are in the audit-trail:

- Date and time
- Issuer (Who triggered the action)
- Subject (name)
- Trial/Case
- Action
- Event ID (internal ID)

The amount of details logged in the audit trail differs for the individual actions. Depending on the hierarchy of study, patient, case, task/ assessment, different levels of details are recorded. Entities which are lower in hierarchy always contain the entities of the higher hierarchies. E.g.: An entry on question level contains details about the question, task/ assessment, patient and trial.

The following list shows the different details contained by each entity:

Trial details contains:

- Trial-ID
- Trial-Name
- Description

Case description details contains:

- Case-Description-ID
- Trial-ID (if a trial exists)
- Trial-Name (if a trial exists)
- Name
- Criteria-Name

Patient details contains:

- Internal-Patient-ID
- Patient-ID

- Patient-Name

Case details contains:

- Internal-Patient-ID
- Patient-ID
- Patient-Name
- Case-ID
- Case-Name
- Criteria-DB-ID
- Criteria-Name
- Criteria-ID
- Criteria-Builder-ID

DICOM series details contains:

- Study Instance UID
- Series Description
- Series Instance UID
- Internal-Study-ID
- Modality
- Series number
- Series date
- Series time
- Protocol

Accessed DICOM series details contains:

- Internal-Patient-ID
- Patient-ID
- Patient-Name
- Case-ID
- Case-Name
- Criteria-DB-ID
- Criteria-Name
- Criteria-ID
- Criteria-Builder-ID
- Task-ID
- Assessment-ID
- Task-Assessment
- Timepoint-Date
- Study Description
- Internal-Image-ID
- Includes DICOM series details

Document task details contains:

- Internal-Patient-ID

- Patient-ID
- Patient-Name
- Case-ID
- Case-Name
- Criteria-DB-ID
- Criteria-Name
- Criteria-ID
- Criteria-Builder-ID
- Task-ID
- Assessment-ID
- Task-Assessment
- Timepoint-Date

Task details contains:

- State (Old)
- State-Category (Old)
- State (New)
- State-Category (New)
- Reason for change
- Internal-Patient-ID
- Patient-ID
- Patient-Name
- Case-ID
- Case-Name
- Criteria-DB-ID
- Criteria-Name
- Criteria-ID
- Criteria-Builder-ID
- Task-ID
- Assessment-ID
- Task-Assessment
- Timepoint-Date

Template details contain:

- Template-Type
- Header

Workflow details contain:

- Artifact-ID
- Workflow-Type

Question details contain:

- Document task details if there is a task
- Case details if there is no task

- Triggered rule calculation
- Question
- Answer (Old)