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# **Basics**

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**CONTACT Software**

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## Audit Trail API

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The APIs to manage batch creation of *Audit Trail* entries and search operations can be found in the class `cs.audittrail.AuditTrailApi` (page 1).

**class** `cs.audittrail.AuditTrailApi`

**classmethod** `createAuditTrails` (*category*, *objs*)

Creates AuditTrail entries based on a list of dicts representing the necessary metadata for those.

### Parameters

- **category** – Which type of entry is generated e.g. create, modify, etc.
- **objs** – A list of dicts representing the metadata necessary for an AuditTrail entry:

```
objs = [{"cdb_object_id": "x",
        "idx": "y",
        "description": "x/y"
        "attach_to": ["abcded...", ...], ...}]
```

**Returns** *objs* with additional attribute `audittrail_id` in the *obj* dict

**classmethod** `createAuditTrailsWithDetails` (*category*, *objs*, *longtext\_stripper=None*)

Creates AuditTrail and AuditTrailDetail entries based on a list of dicts representing the necessary metadata for those.

### Parameters

- **category** – Which type of entry is generated e.g. create, modify, etc.
- **objs** – A list of dicts representing the metadata necessary for AuditTrail and AuditTrailDetail entries:
- **longtext\_stripper** –

**When using `longtext` which include html tags etc. provide a callback function to strip those of the preview description (`new_value`, `old_value`)**

```
objs = [{"cdb_object_id": "x",
        "idx": "y",
        "description": "x/y",
        "changes": [{"attribute_name": "test_attrib",
```

```

        "old_value": "a",
        "new_value": "b",
        "longtext": 1,
        "detail_classname": "cdb_audittrail_
←detail_richtext"},
        ...]
    },
    ...]

```

attribute\_name is a mandatory entry when including changes

**Returns** Original list of objects

**classmethod getChangedObjectIDs** (*root\_object\_id*, *start=None*, *end=None*, *query=""*,  
*with\_create=False*)

Returns a list of cdb\_object\_id and classname tuples which meet the entered criterion

**Parameters**

- **root\_object\_id** – The cdb\_object\_id of the object on which a search shall be triggered.
- **start** – Commencement of a period
- **end** – End of a period
- **query** – Further SQL queries to refine the search e.g. idx > 0 to capture only index levels greater than 0
- **with\_create** – True if “create” entries shall also be considered

**Returns** Dict of elements which match the entered criterion

**classmethod getChangedObjects** (*root\_object\_id*, *start=None*, *end=None*, *query=""*,  
*with\_create=False*)

Returns a list of Objects which meet the entered criterion

**Parameters**

- **root\_object\_id** – The cdb\_object\_id of the object on which a search shall be triggered.
- **start** – Commencement of a period
- **end** – End of a period
- **query** – Further SQL queries to refine the search e.g. idx > 0 to capture only index levels greater than 0
- **with\_create** – True if “create” entries shall also be considered

**Returns** List of objects which match the entered criterion

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