LabCollector / LSM API v2

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LabCollector – LSM API v2 User Guide

1. Available methods in LSM web service

1.1. GET

1.1.1. Jobs

- Method: GET
- URL: http://[my_labcollector_url]/extra_modules/lsm/webservice/index.php?v=2
- Optional parameters: datefrom, dateto, jobid (id or barcode), sampleid (id or barcode), assayid, status (by default only job in progress are returned, use status=all for view all jobs), samplename, samplestatus, samplestatusdatefrom, samplestatusdateto, assaystatus, assaystatusdatefrom, assaystatusdateto, startedon, completedon, validatedon, batch, jobstatus
- Search by job parameter, sample parameter or assay parameter: parameterid, parametervalue

1.1.2. Equipments

- Method: GET
- URL:
  http://[my_labcollector_url]/extra_modules/lsm/webservice/index.php?v=2&getEquipmentList=1
- Optional parameters: id

1.1.3. Assays

- Method: GET
- URL: http://[my_labcollector_url]/extra_modules/lsm/webservice/index.php?v=2&getAssayList=1
- Optional parameters: id

1.1.4. Categories

- Method: GET
- URL:
  http://[my_labcollector_url]/extra_modules/lsm/webservice/index.php?v=2&getCategoryList=1
- Optional parameters: id

1.1.5. Sample Types

- Method: GET
- URL:
  http://[my_labcollector_url]/extra_modules/lsm/webservice/index.php?v=2&getSampleTypeList=1
- Optional parameters: id

1.1.6. Parameters

- Method: GET
- URL:
  http://[my_labcollector_url]/extra_modules/lsm/webservice/index.php?v=2&getParameterList=1
- Optional parameters: id, level (level=J returns job parameters, level=S returns sample parameters and level=A returns test parameters)

1.1.7. Requesters

- Method: GET
- URL:
  http://[my_labcollector_url]/extra_modules/lsm/webservice/index.php?v=2&getRequesterList=1
- Optional parameters: id

1.1.8. Invoices

- Method: GET
- URL: http://[my_labcollector_url]/extra_modules/lsm/webservice/index.php?v=2&getInvoiceList=1
- Optional parameters: id, datefrom, dateto, status, format (CSV | IIF), jobid, jobnumber

1.1.9. Batches

- Method: GET
- URL: http://[my_labcollector_url]/extra_modules/lsm/webservice/index.php?v=2&getBatchList=1
- Optional parameters: batch, status (notfinished –default– | all | assigned | started | completed | approved)

1.1.10. Token

- Method: GET
- URL: http://[my_labcollector_url]/extra_modules/lsm/webservice/index.php?v=2&getToken
- Required parameters: jobid or sampleid

1.1.11. Send token by email

- Method: GET
- URL: http://[my_labcollector_url]/extra_modules/lsm/webservice/index.php?v=2&sendToken
- Required parameters: jobid or sampleid

1.2. POST

1.2.1. Create requesters

- Method: POST
- URL: http://[my_labcollector_url]/extra_modules/lsm/webservice/index.php?v=2
- Required parameter: create
- Example of *create*:

```
<requesters>
<requester code='R01' name='Requester from API' taxNumber='12346789'>
    <billing address='One street' city='City' state='State' country='US' zip='99999'
phone='555123123' fax='555123123' contactFirstName='Jane' contactLastName='Doe'
contactEmail='jane@gmail.com' ></billing>
    <shipping address='One street' city='City' state='State' country='US' zip='99999'
phone='555123123' fax='555123123' contactFirstName='Jane' contactLastName='Doe'
contactEmail='jane@gmail.com' ></shipping>
    </requester>
</requesters>
```

1.2.2. Create job

- Method: POST
- URL: http://[my_labcollector_url]/extra_modules/lsm/webservice/index.php?v=2
- Required parameter: create
- Example of *create*:

```
<jobs>
        <job number='job-api-006' requester='21' project="109">
                <parameter id='242' value='text'></parameter>
                <sample name='job-api-006-sample1' type='1' comment='notes1'>
                        <parameter id='247' value='Female'></parameter>
                        <assay id='1'></assay>
                        <assay id='2'></assay>
                </sample>
                <sample name='job-api-006-sample2' type='1' comment='notes2'>
                        <parameter id='247' value='Male'></parameter>
                        <assay id='1'></assay>
                        <assay id='2'></assay>
                </sample>
        </job>
        <job number='job-api-007' requester='21' project="Test new project code">
                <parameter id='242' value='text'></parameter>
                <sample name='job-api-007-sample1' type='1' comment='notes1'>
                        <parameter id='247' value='Female'></parameter>
                        <assay id='1'></assay>
                        <assay id='2'></assay>
                </sample>
                <sample name='job-api-007-sample2' type='1' comment='notes2'>
                        <parameter id='247' value='Male'></parameter>
                        <assay id='1'></assay>
                        <assay id='2'></assay>
                </sample>
        </job>
</jobs>
```

Multiple jobs and multiple samples are allowed.
Attribute Requester supports id or text.
Attribute project supports id or text

1.2.3. Append samples to existent job

Use the same notation of 1.2.2 Create job adding an extra parameter *appendsamplesifjobexist* = 1.

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JobNumber must match and be unique. If the job doesn't exist a new job will be created. If job exists but is already completed it returns an error message.

1.2.4. Save results

- Method: POST
- URL: http://[my_labcollector_url]/extra_modules/lsm/webservice/index.php?v=2
- Required parameter: result
- Example of *result*: `<assays><assay uniqueid="1223"><result><parameter id="34" unit="mg" value="123"/><parameter id="35" unit="ml" value="456"/></result></assay></assays>`

1.3.   PUT

1.3.1. Upload files

- Method: PUT
- URL: http://[my_labcollector_url]/extra_modules/lsm/webservice/index.php?v=2
- Parameters:
    - o   upload (required)
    - o   file (required)
    - o   uniqueid (required): identifier of job-sample-assay
    - o   parameter (optional): supports parameter id or parameter name
- Response: OK 200

1.3.2. Link sample to module

- Method: PUT
- URL: http://[my_labcollector_url]/extra_modules/lsm/webservice/index.php?v=2
- Parameters:
    - o   sampleid (required): identifier of sample (sampleid or barcode)
    - OR
    - o   samplename (required): sample name
    - o   module (required): module name or short name
    - o   recordid (required): identifier of record in module
- Response: OK 200

1.3.3. Update sample

- Method: PUT
- URL: http://[my_labcollector_url]/extra_modules/lsm/webservice/index.php?v=2
- Parameters:
    - o   sampleid (required): identifier of sample (sample id or barcode). Supports multiple ids separated by comma
    - OR
    - o   samplename (required): sample name
    - o   shipmentstatus(optional): Use 0 Submitted, 1 In transit, 2 Received, 3 Returned (supports number of label)

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- o name (optional): new sample name
- o type (optional): new sample type
- o batch (optional): batch to be assigned to tests
- o Any sample parameter using parameter label or parameter id

1.3.4. Update sample status

- Method: PUT
- URL: http://[my_labcollector_url]/extra_modules/lsm/webservice/index.php?v=2
- Parameters:
    - o sampleid (required): identifier of sample (sampleid or barcode). Supports multiple ids separated by comma

    OR

    - o samplename (required): sample name
    - o status (optional): started | completed | approved
    - o startedby (optional): valid User ID in LSM. If status is set to 'started' and this parameter is not received, the default operator selected in API settings will be used instead
    - o startedon (optional): datetime (YYYY-MM-DD hh:mm:ss). If status is set to 'started' or 'startedby' is set, and this parameter is not received, current date will be used
    - o completedby (optional): valid User ID in LSM. If status is set to 'completed' and this parameter is not received, the default operator selected in API settings will be used instead
    - o completedon (optional): datetime (YYYY-MM-DD hh:mm:ss).). If status is set to 'started' or 'startedby' is set and this parameter is not received, current date will be used
    - o validatedby (optional): valid User ID in LSM. If status is set to 'approved' and this parameter is not received, the default operator selected in API settings will be used instead
    - o validatedon (optional): datetime (YYYY-MM-DD hh:mm:ss).). If status is set to 'approved' or 'validatedby' is set and this parameter is not received, current date will be used
    - o assayid (optional): if it is set, the update is applied only to this assay

- Response: OK 200

1.3.5. Start a batch
- Method: PUT
- URL: http://[my_labcollector_url]/extra_modules/lsm/webservice/index.php?v=2
- Parameters:
    - o batch (required): batch name
    - o startedby (required): user id valid in LSM (or 1 for super admin)
    - o startedon (optional): if not set, current date is used

1.3.6. Update job

- Method: PUT
- URL: http://[my_labcollector_url]/extra_modules/lsm/webservice/index.php?v=2
- Parameters:
    - o jobid (required): identifier of job (job id or barcode). Supports multiple ids separated by comma
    - o Any job parameter using parameter label or parameter id

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1.3.7. Accept/Reject a job

- Method: PUT
- URL: http://[my_labcollector_url]/extra_modules/lsm/webservice/index.php?v=2
- Parameters:
  - jobid (required): identifier of job (job id or barcode). Supports multiple ids separated by comma
  - acceptance (required): accept | reject | hold
  - comment (optional): a text comment to the acceptance/rejection
  - sendnotification (optional): 0 | 1 (send notification by email)

2. Authentication

One HEADER parameter is mandatory:
-Key: X-LC-APP-Auth
-Value: The token you can view/generate in LabCollector -> Admin -> Others -> Setup -> Web services API
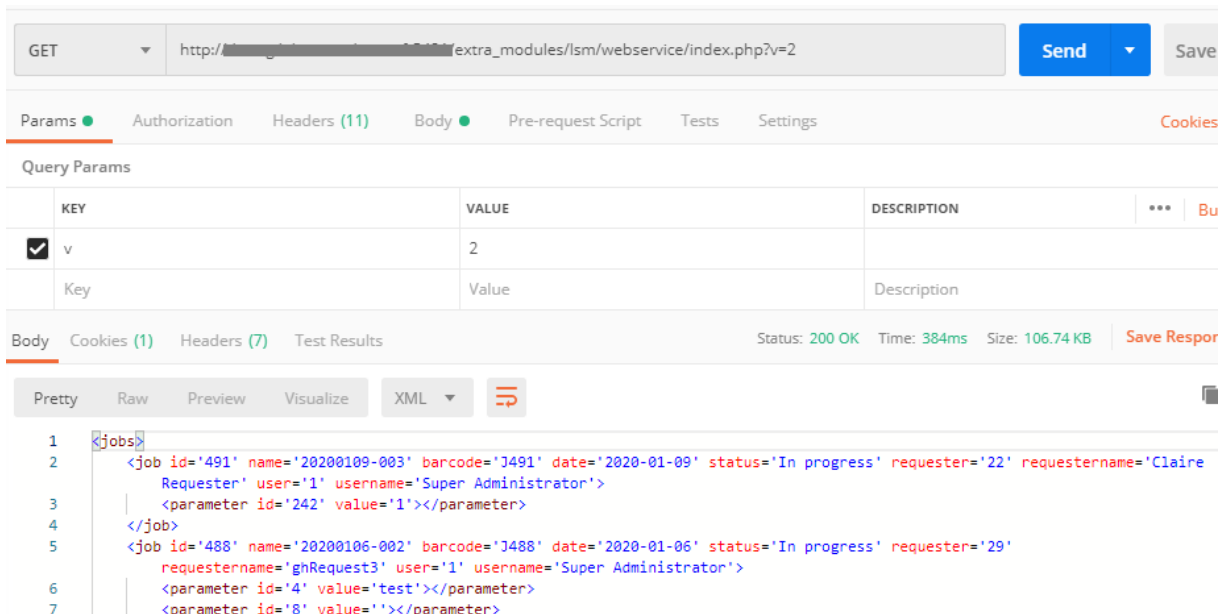
3. Tool

You can try to retrieve data from or send data to the API with some software app as Postman (https://www.getpostman.com/).

4. Screenshots

4.1. GET

4.1.1. Get list of jobs in progress

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4.1.2. Get list of samples received in a period

4.1.3. Get list of requesters

4.1.4. Get token

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4.1.5. Send token by email

4.2. POST

4.2.1. Create jobs

4.2.2. Append samples to job

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4.2.3. Create requesters

4.3. PUT

4.3.1. Update sample using id

4.3.2. Update sample using name

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4.3.3. Update sample status

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