

INCA - Integration of biopsy

Table of Contents

1	Audit History	1
2	Introduction	1
2.1	Target groups	2
3	Endpoints	2
3.1	POST /v1/data	2
3.1.1	Request	2
3.1.2	Response	2
3.1.3	Example	3
3.2	GET /v1/protocols/:area/:name/:version/schema	4
3.2.1	Example	4
4	Test	5

1 Audit History

Date	Comment
2023-08-31	Version 1.

2 Introduction

Before continuing you should have read the document “INCA - General Integrations Solution (GIL)”.

This document describes the biopsy integration which can be used for:

- Retrieve a JSON schema for a particular protocol/form. The schema describes the structure of the data being sent.
- Send data (insert/update).

2.1 Target groups

This document is aimed at developers and integrators planning to integrate towards INCA.

3 Endpoints

The URIs are according to the GIL documentation. : `integration` MUST be `biopsi`.

3.1 POST /v1/data

POST to send biopsy data to INCA. The format follows the structure outlined in GIL for sending data. POST is used for both inserts and updates.

3.1.1 Request

- `record_id` MUST be a unique id for the record from the sender's perspective. It is used to identify insert/update. The id MUST NOT contain any personally identifiable information. If the sender is sending data for multiple systems where the ID's potentially can collide, then it's the sender's responsibility to make sure the IDs are unique, e.g. by prefixing them.
- `patient_id` MUST use system "SE" and value must be a Swedish national id number with or without hyphen.
- `clinic` MUST use system "inca/position" or "HSA". It is used to identify the care unit in INCA that will become the owner of the data.
- `payload` MUST contain protocol and data. Data must conform to the protocol's schema.

3.1.1.1 clinic If `system` is "HSA" then `value` must be an HSA id, e.g. "SE162321000255-F14226".

If `system` is "inca/position" then `value` must be an INCA position string, e.g. "4 - 28011 - 731".

3.1.2 Response

The endpoint returns

- 200 OK if successful insert or update
- 400 Bad Request
 - if the body doesn't pass initial model validation
 - if `data` doesn't conform to the protocol's schema

- if the patient can't be found
- 401 Unauthorized
 - if not authorized to use the endpoint
 - if the integration is incorrectly configured in INCA and missing required permissions.

3.1.3 Example

```
1 curl 'https://api.qa-incanet.se/gil/v1/integrations/biopsi/v1/data' --
   json \
2  '{
3    "patient_id": {
4      "system": "SE",
5      "value": "13371337-1337"
6    },
7    "record_id": "68a0901b-2d5a-493e-9fcb-71c0f96a0b99",
8    "clinic": {
9      "system": "inca/position",
10     "value": "0 - 500010 - 301"
11   },
12   "payload": {
13     "protocol": {
14       "area": "prostata",
15       "name": "mellannal",
16       "version": "1.0"
17     },
18     "data": {
19       "provtagningsdatum": "2024-05-10",
20       "mr": {
21         "undersokningsdatum": "2024-04-29",
22         "teknik": "kognitiv",
23         "prostatavolym": 23.1,
24         "lesioner": [
25           {
26             "nummer": 1,
27             "pirads": "4"
28           }
29         ]
30       },
31       "metod": "transrektal",
32       "jod-povidon": "nej",
33       "tidigare_kand_prostatacancer": "nej",
34       "forstagangsbiopsi": "nej",
35       "tstadium": "T0",
36       "senaste_psa_infor_biopsi": 7.93,
37       "psadensitet": 0.34,
38       "biopserande_lakare": "Test Testsson",
39       "hereditet": "nej",
40       "svf": "nej",
```

```
41     "studiepatient": "nej",
42     "planerat_aterbesok": "2024-04-05",
43     "tidpunkt_i_formalin": "2024-05-10T13:37:00+04:00",
44     "prover": [
45         {
46             "prepnr": 1,
47             "lesion": 1,
48             "sektorer": ["1Av", "2Av"]
49         },
50         {
51             "prepnr": 2,
52             "lesion": 1,
53             "sektorer": ["1Av", "2Av"]
54         },
55         {
56             "prepnr": 3,
57             "lesion": 1,
58             "sektorer": ["1Av"]
59         },
60         {
61             "prepnr": 4,
62             "lesion": 1,
63             "sektorer": ["2Av"]
64         },
65         {
66             "prepnr": 5,
67             "sektorer": ["1Ad"]
68         }
69     ]
70 }
71 }
72 }'
```

3.2 GET /v1/protocols/:area/:name/:version/schema

Gets the JSON schema for the specified protocol.

Currently supported protocols:

- prostata/mellannal/1.0

3.2.1 Example

```
1 curl 'https://api.qa-incanet.se/gil/v1/integrations/biopsi/v1/
   protocols/prostata/mellannal/1.0/schema' -i
2
3 HTTP/1.1 200 OK
4 Content-Type: application/json; charset=utf-8
```

```
5
6 {
7   "$schema": "http://json-schema.org/draft-07/schema#",
8   "$id": "https://schemas.incanet.se/prostata/biopsi-mellannal-1.0.
9     json",
10  "title": "Prostata, Biopsi, Mellannål, v1.0",
11  "description": "Mellannålsbiopsi v1",
12  "type": "object",
13  "additionalProperties": false,
14  "properties": {
15    [...]
16  }
```

4 Test

A list of Swedish national ID's that can be used in test can be found in the tab "Alla" in the "Testdata"¹ appendix from the Swedish Tax Agency.

These are special INCA codes that can be used in the `clinic` field to identify a care unit when system is "inca/position":

- 0 - 500010 - 301
- 0 - 500010 - 741

¹https://www.skatteverket.se/download/18.6e8a1495181dad54084658b/1667290502529/na_bilaga11_Testdata_221101.xlsx