

## 6.8.2 Data Exchange API - Third party testing

### Data Exchange API instruction

This document will instruct how to use the Data Exchange API to get the search option.

#### Get search for

This will get data for search for dropdown on Data Exchange UI by page.

- Endpoint: `api/data-exchange/search-option`
- Query parameter:
  - `group`:
    - Mandatory: required
    - value is the name of the page on Data exchange UI. See on available group list below
- Example: `api/data-exchange/search-option?group=Calving Ease`
- Available value of `group`:
  - ID/Pedigree
  - Evaluation
  - Genotype
  - Progeny
  - Lactation
  - Errors
  - Herd
  - Special Section
  - Reports
  - Calving Ease
  - Create Format
- Result:

```
[
  {
    "Field": "Animal ID (17 bytes)",
    "Value": "ANIM_KEY_17",
    "inStock": false
  },
  {
    "Field": "Herd ID",
    "Value": "HERD_ID",
    "inStock": false
  }
]
```

#### Get API request

This will get data for API request dropdown on Data Exchange UI by page and search for.

- Endpoint: `api/data-exchange/query-list-option-key`
- Query parameters:
  - `group`: value is the name of the page on Data exchange UI
    - Mandatory: required
    - Value is the name of the page on Data exchange UI. See the full available group list below.
  - `option_key`:
    - Mandatory: required
    - Value: depend on **Get search for** result. See the full available option key below.
      - Example: `ANIM_KEY_17`, `ANIM_KEY_12`
  - `sex`:
    - Mandatory: optional
    - Value: Male/Female

- Example: `api/data-exchange/query-list-option-key?group=ID/Pedigree&option_key=ANIM_KEY_17`
- Available `group` values:
  - ID/Pedigree
  - Evaluation
  - Genotype
  - Progeny
  - Lactation
  - Errors
  - Herd
  - Special Section
  - Reports
  - Calving Ease
  - Create Format
- Available `option_key` values:
  - ANIM\_KEY\_6: Last 6 characters
  - ANIM\_KEY\_12: Animal ID (12 bytes)
  - ANIM\_KEY\_17: Animal ID (17 bytes)
  - ANIM\_KEY\_17\_SEX: Animal ID + Sex Code (18 bytes)
  - ITB\_ID: Animal Interbull ID (19 bytes)
  - SAMPLE\_ID\_SEX: Sample ID (20 bytes max)
  - NAAB\_CODE: NAAB Code
  - SHORT\_NAME: Short Name
  - PARTIAL\_FULL\_NAME: Partial Full Name
  - HERD\_CTRL\_NUM: Herd + Cow Control Number
  - HERD\_ID: Herd ID
  - ID\_RANGE: ID Range
  - FMT1: FMT1 Record
  - BARCODE\_POSITION: Barcode & Position
  - DAM\_BIRTH: Dam ID + Calf Birth Date
  - AFFILIATE: Affiliate Short Name
  - ASCII: A plain ASCII text file
  - RPT\_GENOTYPES\_FEE\_CODE: Lists Genotypes with Fee Code=N Loaded in the Past 6 Months
  - RPT\_INVOICE\_GENOTYPES: Fee Codes for Genotypes Loaded Since the Last Invoice
  - RPT\_GENOMIC\_PARENTAGE: Lists Parentage only Genotypes Since the Previous Genomic Run
  - RPT\_REPORT\_MISSING\_ANIMAL: Reports Missing Animal ID for a Requester
  - RPT\_45\_DAYS\_GENOTYPES: Conflicts for Genotypes Loaded in the Past 45 Days
  - RPT\_75\_DAYS\_MISSING\_PEDIGREE: Check for Missing Pedigree of Animals Nominated in the Past 75 Days
  - RPT\_GENOTYPES\_WITHIN\_ANIMAL: List Conflicting Genotypes within Animal (Negative Keys)
  - RPT\_ANIMALS\_UNLIKELY\_GRANDSIRE: Animals with Unlikely Grandsire (and no Other Conflict) in the Past 6 Months
  - RPT\_IMPUTED\_DAM\_GENOTYPED: Animals with Genotypes that Conflict with Imputed Dam Genotypes
  - RPT\_45\_DAYS\_PARENTAGE: Parentage Verification records for Genotypes Loaded in the Past 45 Days
  - METRICS\_NOMINATION: Nominator Performance Metrics
  - METRICS\_LABORATORY: Laboratory Performance Metrics
  - SIRE\_DAM\_ID: Sire and Dam ID's (35 bytes)
  - DERIVE\_STD\_INPUT
- Result:

```
[
  {
    "Field": "Get Animal 5-Generation Pedigrees",
    "Value": "4",
    "order": 1,
    "inStock": false
  },
  {
    "Field": "Get Animal Aliases",
    "Value": "15",
    "order": 2,
    "inStock": false
  }
]
```