

Filtering Your BCDA Exports

Accessing patient Medicare claims for value-added care

September 2, 2026

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BCDA Returns Data at Scale

—● **BCDA is Built for population level data**

Number of Beneficiaries attributed to Active Entities:

Over 14 Million

Average number of Beneficiaries per export job:

Over 80 Thousand

BCDA Consumers have access to years of historical data

That's a lot of beneficiary, coverage, and claim information

● Filter out unnecessary data from your BCDA exports

BCDA supports filters that allow you to export only the data you need with smaller and faster requests.

Most current BCDA users are already using filtering parameters in their exports for things like:

- Limiting the export to a subset of FHIR resource types
 - ex: Only return the Patient Resource, filtering out claims and coverage info
- Limiting the export to only include data that has changed since a certain date
 - ex: Only give me the data that has changed since I last performed an export

—● How to specify the filters

During the initial \$export kick-off request, you'll provide the parameter names and values as query parameters

```
GET .../v3/v3/Patient/$export?<param_name>=<param_value>
```

You can pass in multiple different parameters together separated by `&`, and the resources in the result will have to pass all filters to be returned.

BCDA Filter Params

BCDA Parameters: **_type**

_type: Limit your results to one or more specific FHIR resource types.

Supported values:

- Patient
- Coverage
- ExplanationOfBenefit

ex: `/api/v3/Group/all/$export?_type=Patient,Coverage`

Default: Return all FHIR resource types

BCDA Parameters: **_since**

_since: Limit your results to resources that have been updated after the provided time. There is a slight difference between /Patient and /Group with **_since**

- **/Patient**
 - Returns resources updated after the date provided for existing and newly attributed enrollees
- **/Group**
 - Returns resources updated after the date provided for existing enrollees *and all resources for newly attributed enrollees*

ex: `/api/v3/Group/all/$export?_since=2026-02-13T08:00:00.000Z`

Default: Return resources regardless of when they were last updated

BCDA Parameters: **_typeFilter**

_typeFilter: Limit your results to resources matching the provided criteria. The value of this parameter is a URL-encoded string of a FHIR REST API query.

Supported subquery parameters for the ExplanationOfBenefit resource:

- **outcome**: filter the export based on the processing status of the claim.
- **service-date**: filter the export based on the claim's service date.
- **_tag**: filter the export based on the meta.tag element.

BCDA Parameters: `_typeFilter`

Example: You would like to request an export for only fully adjudicated claims (ExplanationOfBenefit resources where the outcome element equals “complete”).

To perform a RESTful FHIR query, it would look like this:

```
/ExplanationOfBenefit?outcome=complete
```

What that looks like in BCDA with `_typeFilter`:

```
/v3/Patient/$export?
```

```
_typeFilter=ExplanationOfBenefit%3Foutcome%3Dcomplete
```

BCDA Parameters: **outcome** (_typeFilter subquery param)

outcome: Limit your results based on the processing status of the claim. The two values for this param, partial and complete, represent the “Partially Adjudicated” and “Fully Adjudicated” claim statuses.

Supported values:

- partial
- complete

ex: `/v3/Patient/$export?`

`_typeFilter=ExplanationOfBenefit%3Foutcome%3Dcomplete`

Default: Return ExplanationOfBenefit resources with any outcome

BCDA Parameters: **service-date** (_typeFilter subquery param)

service-date: Limit your results based on the claim's service date. The service date is the date that the care occurred within a billable period.

This is a FHIR date param format (ex. `gt2026-01-14`)

ex: `/v3/Patient/$export?`

`_typeFilter=ExplanationOfBenefit%3Fservice-date%3Dge2026`

Default: Return ExplanationOfBenefit resources with any service date

BCDA Parameters: `_tag` (`_typeFilter` subquery param)

`_tag`: Limit your results based on the `meta.tag` element. Pass a full token as `<system> | <code>`.

Supported codes in the `https://bluebutton.cms.gov/fhir/CodeSystem/System-Type` system:

- `SharedSystem`
- `NationalClaimsHistory`
- `DDPS`

ex: `/v3/Patient/$export?`

`_typeFilter=ExplanationOfBenefit%3F_tag%3Dhttps%3A%2F%2Fbluebutton.cms.gov%2Ffhir%2FCodeSystem%2FSystem-Type%7CSharedSystem`

Default: Return only `NationalClaimsHistory` and `DDPS` claims

BCDA “Shared Systems” vs “PAC” Data

In v2, REACH ACOs could access “Partially Adjudicated Claims” (PAC) data. This data was represented by Claim and ClaimResponse resources.

In v3, more model entities will have access, and the data will be represented in ExplanationOfBenefit resources tagged as “Shared Systems” data. This includes:

- adjudicated claims
- resubmitted claims
- deleted claims
- and all other claims in processing

In order to isolate “in process” claims, use these parameters in your v3 \$export _typefilter subquery:

- _tag = SharedSystem
- outcome = partial

BCDA Filter Params Review

BCDA Filtering Support Review:

Current filtering support review:

- **_since**: limit response based on last updated timestamp
- **_type**: limit response based on resource type
- **_typeFilter** subquery parameters:
 - **outcome**: limit response based on processing status of the claim
 - **service-date**: limit response based on service date of the claim
 - **_tag**: limit response based on the meta.tag element of the EOB resource

What additional ways to filter an \$export would be useful to your use cases?

BCDA Filtering Support Review:

Current filtering support review:

- **_since**: limit response based on last updated timestamp
- **_type**: limit response based on resource type
- **_typeFilter** subquery parameters:
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 - **service-date**: limit response based on service date of the claim
 - **_tag**: limit response based on the meta.tag element of the EOB resource

Let's review some examples of how you can leverage these parameters in the real world

Pop Quiz!

Scenario #1: Export Beneficiary Roster

Get a full roster of just beneficiary info like name, identifier, date of birth, etc. You do not need to get claims or coverage info in this export.

What parameter would you use?

 `_since`

 `_type`

 `_typefilter`

 `_until`

Scenario #1: Export Beneficiary Roster

Get a full roster of just beneficiary info like name, identifier, date of birth, etc. You do not need to get claims or coverage info in this export.

What parameter would you use?

 `_since`

 `_type`

 `_typefilter`

 `_until`

`/v3/Group/all/$export?_type=Patient`

`_type` limits the export to resources with a specific FHIR Resource Type. This returns only Patient FHIR resources, which holds the beneficiary info like demographic and identifiers.

Scenario #2: Export Claims info from calendar year 2025

Export claims info for your current set of beneficiaries, for services that happened in the year 2025



_since = 2025-01-01T00:00:00Z



/Group/runout/\$export with no parameters



service-date = 2025



service-date = gt2025-01-01 and service-date = lt2025-12-31

Scenario #2: Export Claims info from calendar year 2025

Export claims info for your current set of beneficiaries, for services that happened in the year 2025



`_since = 2025-01-01T00:00:00Z`



`/Group/runout/$export` with no parameters



`service-date = 2025`



`service-date = gt2025-01-01` and `service-date = lt2025-12-31`

`/v3/Group/all/$export?_typeFilter=ExplanationOfBenefit%3Fservice-date%3D2025`

the service-date param limits the results based on the claim's service date. The service date is the date that the care occurred within a billable period.

service-date=2025 is the same as

service-date=ge2025-01-01T00:00:00&service-date=le2025-12-31T23:59:59 24

Scenario #3: Export recently updated Partially Adjudicated claims

Weekly export of all partially adjudicated claims that have been updated since the last export a week ago

- 👍 `_tag = NotFinalAction & _since = one week ago`
- ❤️ `_tag = NotFinalAction & _tag = SharedSystem & _since = one week ago`
- 👏 `_outcome = partial & _since = one week ago`
- 😮 `_outcome = partial & _tag = SharedSystem & _since = one week ago`

Scenario #3: Export recently updated Partially Adjudicated claims

Weekly export of all partially adjudicated claims that have been updated since the last export a week ago

- 👍 `_tag = NotFinalAction & _since = one week ago`
- ❤️ `_tag = NotFinalAction & _tag = SharedSystem & _since = one week ago`
- 👏 `_outcome = partial & _since = one week ago`
- 😮 `_outcome = partial & _tag = SharedSystem & _since = one week ago`

`/v3/Group/all/$export?_typeFilter=ExplanationOfBenefit%3Foutcome%3Dpartial%26_tag%3Dhttps%3A%2F%2Fbluebutton.cms.gov%2Ffhir%2FCodeSystem%2FSystem-Type%7CSharedSystem&_since=2026-08-26T00:00:00Z`

The `_tag` parameter has a default behavior where if it is not specified, the `$export`'s response will be limited to NationalClaimsHistory and DDPS claims. other params default to not filtering

Scenario #4: Export all data

As a new BCDA consumer, get all the beneficiary, coverage, and claims info since as far back as is allowed

- 👍 No parameters
- ❤️ service-date = ge2014-01-01
- 👏 _tag = SharedSystem,NationalClaimsHistory,DDPS
- 😮 _tag = SharedSystem & _tag = NationalClaimsHistory & _tag = DDPS

Scenario #4: Export all data

As a new BCDA consumer, get all the beneficiary, coverage, and claims info since as far back as is allowed



No parameters



service-date = ge2014-01-01



`_tag = SharedSystem,NationalClaimsHistory,DDPS`



`_tag = SharedSystem & _tag = NationalClaimsHistory & _tag = DDPS`

`/v3/Group/all/$export?_typeFilter=ExplanationOfBenefit%3F_tag%3Dhttps%3A%2F%2Fbluebutton.cms.gov%2Ffhir%2FCodeSystem%2FSystem-Type%7CSharedSystem%2Chttps%3A%2F%2Fbluebutton.cms.gov%2Ffhir%2FCodeSystem%2FSystem-Type%7CNationalClaimsHistory%2Chttps%3A%2F%2Fbluebutton.cms.gov%2Ffhir%2FCodeSystem%2FSystem-Type%7CDDPS`

The `_tag` parameter has a default behavior where if it is not specified, the `$export`'s response will be limited to NationalClaimsHistory and DDPS claims. other params default to not filtering



Q&A

Questions from Attendees of the September 2, 2026 BCDA Office Hours

● Open Q&A

Question: Why do you need to include the tag filter for SharedSystems instead of just searching by outcome=partial, if only SharedSystems claims can have outcome=partial?

Response: Because SharedSystem claims are not included in an export by default, you need to specify the _tag param for System-Type = `SharedSystem` in order to include them. Then, once you have SharedSystem claims, you can further refine the export by using the outcome param to filter claims based on processing status.

Question: Is there a way to filter based on Provider ID (like TIN or CCN)?

Response: There is no filter for this yet, but please continue to bring new feature requests to the BCDA team so we can prioritize them!



Thank you

Stay in touch

Visit our website: bcda.cms.gov

Email us: bcapi@cms.hhs.gov

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