ORB External API 1.0.4 OAS 3.0

ORB External API – Integration guide for EHR systems.

ORB supports integration with clinical EHR systems, allowing clinicians to access NHS records on patients within the EHR. The API has two main parts:

- **Data Model Linkage** – connects Organisations, Users and Patients from the EHR into ORB
- **Data Access** – allows the EHR system to show specific Patient data when requested by a specific User

This API is **organisation-scoped**: all patient and user operations occur in the context of an Organisation.

External EHR IDs are used for Organisations, Users and Patients — ORB does not expose internal IDs.

Request validation (400): When the request cannot be parsed or accepted—for example malformed JSON, a required body field missing, a query or path value in the wrong form (such as `offset=0sd` when an integer is expected), a value outside the permitted set (such as `"sex": "Female1"` when only defined values are accepted), or a property not defined for that operation (such as an unknown field `"newField"` in a PATCH or POST request body)—and no narrower ORB `errorCode` applies, the response always includes `errorCode` **InvalidRequestData** and a single `errorMessage`. The body contains **only** these two members. `errorMessage` is intended for display: either a fixed general sentence or—commonly—a short line naming one query parameter and the rejected value when only that parameter is at fault (see **ErrorResponseInvalidRequestData** in components/schemas). Wording may change in later API versions; use `errorCode` for programmatic handling and **do not** parse `errorMessage` for business logic.

Servers

https://api-test-app.orbforhealth.com/v1 - TEST / Development

Authorize

Organisations

Create, update, delete and list organisations under the governing body

GET `/organisations` List Organisations

Returns a list of organisations under the Governing Body linked to the API key. Includes suspension status and auto-delete date when suspended. Filtering by suspension status is optional.

Parameters

Try it out

Name	Description
suspended `boolean`	Filter by suspension status. Omit to return all results. --

Name	Description
(query)	

Responses

Code	Description	Links
200	OK Media type **application/json; charset=utf-8** Controls `Accept` header. **Example Value** | Schema	*No links*

```
[
  {
    "extOrganisationId": "string",
    "organisationName": "string",
    "suspended": true,
    "autoDeleteDate": "2026-09-16"
  }
]
```

401	Missing API key (empty body). Unknown key typically returns 404 ClientNotFound.	*No links*
404	Governing Body corresponding to given API key not found Media type **application/json; charset=utf-8** **Example Value** | Schema	*No links*

```
{
  "errorMessage": "No external client found for the provided API ke
y",
  "errorCode": "ClientNotFound"
}
```

POST `/organisations/{extOrganisationId}` Create Organisation

Creates an Organisation in ORB under the GovBody associated with the API Key. Allowed before the organisation contract is signed (required for onboarding).

Parameters

Try it out

Name	Description
extOrganisationId * required `string` *(path)*	External organisation ID (EHR) *Example* : extOrganisationKey extOrganisationKey

Request body required

application/json

Example Value | Schema

```
{
  "organisationName": "string",
  "address1": "string",
  "address2": "string",
  "address3": "string",
  "address4": "string",
  "postcode": "string",
  "phoneNumber": "string",
  "cqcRegistrationNumber": "string",
  "researchOptOut": false
}
```

Responses

Code	Description	Links
201	Organisation created	*No links*
400	Creation failed due to invalid request or validation error Media type application/json; charset=utf-8 **Example Value** | Schema `{ "errorMessage": "One or more fields contain invalid values. Please verify the input data.", "errorCode": "InvalidRequestData" }`	*No links*
401	Missing API key (empty body). Unknown key typically returns 404 ClientNotFound.	*No links*
404	No external client found for the provided API key Media type application/json; charset=utf-8	*No links*

Code	Description	Links
	Example Value | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	
409	Organisation already exists with the same extOrganisationId (`IdNotAvailable`) or organisationName (`NameNotAvailable`) Media type **application/json; charset=utf-8** **Example Value** | Schema `{ "errorMessage": "Organisation already exists", "errorCode": "IdNotAvailable" }`	*No links*

PATCH `/organisations/{extOrganisationId}` Update Organisation

Updates organisation details or suspends/unsuspends the organisation. Requires the organisation contract to be signed (`403` OrganisationContractNotSigned otherwise).

- If an organisation is suspended it is not considered for billing, and no Users can access data via API.
- Organisations cannot be suspended indefinitely. When suspending, the caller may specify `autoDeleteDays` to set when automatic deletion happens. If not specified this happens in 180 days.
- Organisations can be unsuspended to restore access for Users.
- `phoneNumber` and `cqcRegistrationNumber` distinguish "not supplied" from "supplied as empty": omit the field to leave the stored value unchanged, or send `null` (for `cqcRegistrationNumber` also an empty/whitespace-only string) to clear it. All other string fields ignore empty or whitespace-only values and therefore cannot be cleared here.

Parameters **Try it out**

Name	Description
extOrganisationId * required `string` *(path)*	External organisation ID (EHR) *Example* : extOrganisationKey extOrganisationKey

Request body required **application/json; charset=utf-8**

Example Value | Schema

```
{
  "organisationName": "string",
  "address1": "string",
  "address2": "string",
  "address3": "string",
  "address4": "string",
  "postcode": "string",
  "phoneNumber": "string",
  "cqcRegistrationNumber": "string",
  "researchOptOut": true,
  "suspended": true,
  "autoDeleteDays": 180
}
```

Responses

Code	Description	Links
200	Organisation updated	*No links*
400	Update failed due to invalid request or validation error Media type application/json; charset=utf-8 **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*
401	Missing API key (empty body). Unknown key typically returns 404 ClientNotFound.	*No links*
403	Organisation contract not signed (`OrganisationContractNotSigned`) Media type application/json; charset=utf-8 **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*
404	Organisation or Governing Body not found Media type application/json; charset=utf-8 **Example Value** | Schema	*No links*

Code	Description	Links
	`{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	
409	Organisation Name already exists Media type application/json; charset=utf-8 **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*

GET `/organisations/{extOrganisationId}` Get Organisation

Returns the organisation details for the given external organisation ID when it exists in the Governing Body linked to the API key.

Parameters Try it out

Name	Description
extOrganisationId * required `string` *(path)*	External organisation ID (EHR) *Example* : extOrganisationKey extOrganisationKey

Responses

Code	Description	Links
200	Organisation exists in Governing Body Media type application/json; charset=utf-8 Controls `Accept` header.	*No links*

Code	Description	Links
	Example Value | Schema `{ "extOrganisationId": "string", "organisationName": "string", "suspended": true, "autoDeleteDate": "2026-09-16" }`	
400	Bad request Media type **application/json; charset=utf-8** **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*
401	Missing API key (empty body). Unknown key typically returns 404 ClientNotFound.	*No links*
404	Organisation not found Media type **application/json; charset=utf-8** **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*

DELETE `/organisations/{extOrganisationId}` Delete Organisation

Delete the organisation and all associated users. Deletion does not require the organisation contract to be signed, so an organisation created by mistake can be removed before signing. Use this if an organisation asks to turn OFF the integration permanently or if it leaves the EHR system.

Once deleted:

- The extOrganisationId is no longer valid for use in any API calls.
- If a patient has no other organisations linked to their profile, they will no longer be able to login.

Parameters **Try it out**

Name	Description
extOrganisationId * required	External organisation ID (EHR)

Name	Description
`string` *(path)*	*Example* : extOrganisationKey extOrganisationKey

Responses

Code	Description	Links
200	Organisation deleted (no response body)	*No links*
400	Deletion failed due to invalid request or validation error (including `OrgAlreadyArchived` if the organisation was already deleted) Media type **application/json; charset=utf-8** **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*
401	Missing API key (empty body). Unknown key typically returns 404 ClientNotFound.	*No links*
403	EHR API disabled (`ApiDisabled`) Media type **application/json; charset=utf-8** **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*
404	Organisation not found Media type **application/json; charset=utf-8** **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key",`	*No links*

Code	Description	Links
	`{ "errorCode": "ClientNotFound" }`	

GET `/organisations/{extOrganisationId}/contract-status`

Get Organisation Contract Status

Returns whether the organisation has signed the ORB organisation contract and when. Available before the contract is signed (not gated). Used by the host to decide whether to show the signing iframe.

Parameters | Try it out

Name	Description
extOrganisationId * required `string` *(path)*	External organisation ID (EHR) *Example* : extOrganisationKey extOrganisationKey

Responses

Code	Description	Links
200	Contract status for the organisation Media type: application/json; charset=utf-8 Examples: Not signed Controls `Accept` header. **Example Value** | Schema `{ "extOrganisationId": "org-123", "contractSigned": false, "contractSignedAt": null }`	*No links*
401	Missing API key (empty body). Unknown key typically returns 404 ClientNotFound.	*No links*
403	EHR API disabled for this client Media type: application/json; charset=utf-8	*No links*

Code	Description	Links

Example Value | Schema

```
{
  "errorMessage": "No external client found for the provided API key",
  "errorCode": "ClientNotFound"
}
```

404 Organisation not found for this API key / client — *No links*

Media type

application/json; charset=utf-8

Example Value | Schema

```
{
  "errorMessage": "No external client found for the provided API key",
  "errorCode": "ClientNotFound"
}
```

500 Unexpected server error — *No links*

Media type

application/json; charset=utf-8

Example Value | Schema

```
{
  "errorMessage": "No external client found for the provided API key",
  "errorCode": "ClientNotFound"
}
```

POST `/organisations/{extOrganisationId}/contract-access-token`

Request Contract Access Token

Generates a short-lived organisation-scoped token used to open the ORB organisation-contract signing iframe. Available before the contract is signed (not gated). The token identifies the API-key client and external organisation only (no patient or user claim). JWT claims include `clientScopeId`, `extOrganisationId`, and `tokenScope` = `organisation-contract`. See the Widget Integration Guide for iframe embedding and postMessage (`SET_TOKEN` , `CONTRACT_SIGNED`).

Parameters — Try it out

Name	Description
extOrganisationId * required `string` *(path)*	External organisation ID (EHR). Must be the same ID used at Create Organisation under this API key; scopes the contract-signing iframe to that organisation *Example* : extOrganisationKey

Name	Description
	extOrganisationKey

Responses

Code	Description	Links
200	Contract access token issued Media type application/json; charset=utf-8 Controls `Accept` header. **Example Value** | Schema `{ "accessToken": "string", "expiresIn": 900 }`	*No links*
401	Missing API key (empty body). Unknown key typically returns 404 ClientNotFound.	*No links*
403	Organisation suspended, or EHR API disabled for this client Media type application/json; charset=utf-8 **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*
404	Organisation not found for this API key / client Media type application/json; charset=utf-8 **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*
500	Unexpected server error Media type	*No links*

Code	Description	Links

application/json; charset=utf-8

Example Value | Schema

```
{
  "errorMessage": "No external client found for the provided API key",
  "errorCode": "ClientNotFound"
}
```

POST `/organisations/{extOrganisationId}/branding` Set Organisation Branding

Updates the organisation logo and optional welcome title/subtitle shown on the patient-facing NHS linking page (the page patients see when the EHR uses Connect Patient by Email or Connect Patient by Link).

Requires the organisation contract to be signed (`403` OrganisationContractNotSigned otherwise).

Logo changes apply only when overwriteLogo is true: send a file to replace the logo, or send no file to remove it. When overwriteLogo is false or omitted, the existing logo is left unchanged (any uploaded file is ignored). Optionally include patientNHSActivationWelcomeTitle and/or patientNHSActivationWelcomeSubtitle to update NHS activation page text without resending the logo. Allowed logo formats: PNG, JPEG, JPG, SVG. Maximum file size: 1 MB.

Parameters Try it out

Name	Description
extOrganisationId * required `string` *(path)*	External organisation ID (EHR) *Example* : extOrganisationKey extOrganisationKey

Request body multipart/form-data

file `string($binary)`	Logo image (PNG, JPEG, JPG, or SVG; max 1 MB)
last_modified `string`	
patientNHSActivationWelcomeTitle `string`	NHS activation page welcome title (applied when included in the request)

patientNHSActivationWelcomeSubtitle `string`	NHS activation page welcome subtitle (applied when included in the request)
overwriteLogo `boolean`	When true, update the stored logo (replace if a file is sent, remove if no file is sent). When false or omitted, the existing logo is not modified.

Responses

Code	Description	Links
204	Organisation branding updated	*No links*
400	Invalid request or validation error	*No links*

Media type

application/json; charset=utf-8

Example Value | Schema

```
{
  "errorMessage": "No external client found for the provided API ke
y",
  "errorCode": "ClientNotFound"
}
```

401	Missing API key (empty body). Unknown key typically returns 404 ClientNotFound.	*No links*
403	Organisation contract not signed, or EHR API disabled	*No links*

Media type

application/json; charset=utf-8

Example Value | Schema

```
{
  "errorCode": "OrganisationContractNotSigned",
  "errorMessage": "The organisation contract has not been signed. Com
plete contract signing before using this API."
}
```

404	Organisation or Governing Body not found	*No links*

Media type

application/json; charset=utf-8

Example Value | Schema

```
{
  "errorMessage": "No external client found for the provided API ke
y",
```

Code	Description	Links
	`{ "errorCode": "ClientNotFound" }`	
415	Unsupported media type (`UnsupportedMediaType`). Returned when the uploaded file is not PNG, JPEG, JPG, or SVG, when the file content does not match its declared type, or when the request is not multipart/form-data. Media type **application/json; charset=utf-8** **Example Value** | Schema `{ "errorCode": "UnsupportedMediaType", "errorMessage": "This graphic must be supplied in PNG,JPEG or SVG formats." }`	*No links*

Users

Create, update, list and delete EHR-linked users within an organisation (clinical and non-clinical via isClinician)

GET `/organisations/{extOrganisationId}/users` List Users

Returns users for the organisation (regardless of whether the organisation is currently suspended). Pagination is optional — if no pagination parameters are provided, all users are returned as an array. If pagination parameters are provided, a paginated response with metadata is returned.

Parameters | **Try it out**

Name	Description
extOrganisationId * required `string` *(path)*	External organisation ID (EHR) *Example* : extOrganisationKey extOrganisationKey
limit `integer` *(query)*	Maximum number of users to return (1–1000). If omitted, all users are returned. limit
offset `integer` *(query)*	Number of users to skip before returning results. Only used when limit is provided. *Default value* : 0

Name	Description
	0

Responses

Code	Description	Links
200	OK — returns either a plain array (no pagination) or an object with pagination metadata. Media type **application/json; charset=utf-8** Controls `Accept` header. **Example Value** | Schema `[ { "extUserId": "string", "firstName": "string", "lastName": "string", "professionalRegNumber": "string", "emailAddress": "string", "isClinician": true, "isLocum": true, "authorisedSignatory": true } ]`	*No links*
400	Invalid pagination parameters (limit > 1000, limit < 1, or offset < 0) Media type **application/json; charset=utf-8** **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*
401	Missing API key (empty body). Unknown key typically returns 404 ClientNotFound.	*No links*
403	Organisation contract not signed (`OrganisationContractNotSigned`), or EHR API disabled (`ApiDisabled`) Media type **application/json; charset=utf-8** **Example Value** | Schema	*No links*

Code	Description	Links
404	Organisation not found Media type application/json; charset=utf-8 **Example Value** | Schema	*No links*

```
{
  "errorMessage": "No external client found for the provided API key",
  "errorCode": "ClientNotFound"
}
```

```
{
  "errorMessage": "No external client found for the provided API key",
  "errorCode": "ClientNotFound"
}
```

POST `/organisations/{extOrganisationId}/users/{extUserId}` Create User

Creates an ORB user within an ORB organisation, linked to the corresponding external User ID. Used to grant a user access to the integration. Set `isClinician` to `true` for clinical users and `false` for non-clinical users. Only users with `isClinician: true` may request patient access tokens (see Request Access Token).

- External IDs are unique within an Organisation and do not change.
- ORB does not link or merge users based on personal attributes (e.g. name, professional registration number).
- If the same person exists in multiple organisations in the EHR, a separate ORB user must be created for each.
- User counts during a month may be used in billing; creation and deletion are logged.

Parameters Try it out

Name	Description
extOrganisationId * required `string` *(path)*	External organisation ID (EHR) *Example* : extOrganisationKey extOrganisationKey
extUserId * required `string` *(path)*	External user ID (EHR) *Example* : extUserKey extUserKey

Request body required application/json

Example Value | Schema

```
{
  "firstName": "string",
  "lastName": "string",
  "professionalRegNumber": "string",
  "emailAddress": "string",
  "isClinician": true,
  "isLocum": true,
  "authorisedSignatory": true
}
```

Responses

Code	Description	Links
201	User created	*No links*
400	Creation failed due to invalid request or validation error Media type application/json; charset=utf-8 **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*
401	Missing API key (empty body). Unknown key typically returns 404 ClientNotFound.	*No links*
403	Organisation contract not signed (`OrganisationContractNotSigned`), or EHR API disabled (`ApiDisabled`) Media type application/json; charset=utf-8 **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*
404	Organisation not found Media type application/json; charset=utf-8 **Example Value** | Schema	*No links*

Code	Description	Links
	`{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	
409	User already exists in this organisation with the same extUserId (`IdNotAvailable`), or email already in use (`EmailNotAvailable`) Media type application/json; charset=utf-8 **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*

PATCH `/organisations/{extOrganisationId}/users/{extUserId}` Update User

Updates one or more attributes of an existing user within an organisation.

Parameters Try it out

Name	Description
extOrganisationId * required `string` *(path)*	External organisation ID (EHR) *Example* : extOrganisationKey extOrganisationKey
extUserId * required `string` *(path)*	External user ID (EHR) *Example* : extUserKey extUserKey

Request body required application/json; charset=utf-8

Example Value | Schema

```
{
  "firstName": "string",
  "lastName": "string",
```

```
  "professionalRegNumber": "string",
  "emailAddress": "string",
  "isClinician": true,
  "isLocum": true,
  "authorisedSignatory": true
}
```

Responses

Code	Description	Links
200	User updated	*No links*
400	Invalid request or validation error Media type **application/json; charset=utf-8** **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*
401	Missing API key (empty body). Unknown key typically returns 404 ClientNotFound.	*No links*
403	Organisation contract not signed (`OrganisationContractNotSigned`), or EHR API disabled (`ApiDisabled`) Media type **application/json; charset=utf-8** **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*

Code	Description	Links
404	User or organisation not found Media type application/json; charset=utf-8 **Example Value** | Schema	*No links*

```
{
  "errorMessage": "No external client found for the provided API key",
  "errorCode": "ClientNotFound"
}
```

DELETE `/organisations/{extOrganisationId}/users/{extUserId}` Delete User

Deletes the specified user from the organisation. After deletion, the user will no longer be able to access the integration for this organisation.

Parameters Try it out

Name	Description
extOrganisationId * required `string` *(path)*	External organisation ID (EHR) *Example* : extOrganisationKey extOrganisationKey
extUserId * required `string` *(path)*	External user ID (EHR) *Example* : extUserKey extUserKey

Responses

Code	Description	Links
200	User deleted (no response body)	*No links*
401	Missing API key (empty body). Unknown key typically returns 404 ClientNotFound.	*No links*

Code	Description	Links
403	Organisation contract not signed (`OrganisationContractNotSigned`), or EHR API disabled (`ApiDisabled`) Media type application/json; charset=utf-8 **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*
404	User or organisation not found Media type application/json; charset=utf-8 **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*

Patients

List, update, connect, and manage patient connections and permissions

GET `/organisations/{extOrganisationId}/patients` List Patients

Returns a list of patients for the specified organisation. Pagination is optional — if no pagination parameters are provided, all patients are returned as an array. If pagination parameters are provided, a paginated response with metadata is returned. Filters can be combined using AND logic.

Parameters Try it out

Name	Description
extOrganisationId * required `string` *(path)*	External organisation ID (EHR) *Example* : extOrganisationKey extOrganisationKey
limit	Maximum number of patients to return (1–1000). If omitted, all patients are returned.

Name	Description
`integer` *(query)*	limit
offset `integer` *(query)*	Number of patients to skip before returning results. Only used when limit is provided. *Default value* : 0 0
connectionStatus `string` *(query)*	Filter by connection status. *Available values* : InviteNotSent, InviteSent, InviteExpired, DataMismatch, Connected, Declined --
dataAccessStatus `string` *(query)*	Filter by data access request status. *Available values* : RequestNotSent, RequestSent, Reviewed, Declined --
patientDataAccessLimited `boolean` *(query)*	When true, filter to patients which have restricted their data (patient-side). --
gpDataAccessLimited `boolean` *(query)*	When true, filter to patients which have their data blocked from GP side. --
dobMismatch `boolean` *(query)*	When true, filter to patients whose date of birth in ORB mismatches the one in NHS. --
surnameMismatch `boolean` *(query)*	When true, filter to patients whose surname in ORB mismatches the one in NHS. --
nhsNumber `string` *(query)*	Filter by NHS number from NHS Login in ORB (digits only; spaces/hyphens allowed in the query value) nhsNumber

Responses

Code	Description	Links
200	OK — returns either a plain array (no pagination) or an object with pagination metadata. Media type **application/json; charset=utf-8** Controls `Accept` header. **Example Value** | Schema	*No links*

```
[
  {
    "extPatientId": "string",
    "title": "string",
    "firstName": "string",
    "lastName": "string",
    "dateOfBirth": "2026-09-16",
    "sex": "string",
    "emailAddress": "string",
    "postcode": "string",
    "connectionStatus": "InviteNotSent",
    "dobMismatch": true,
    "surnameMismatch": true,
    "patientDataAccessLimited": true,
    "gpDataAccessLimited": true,
    "dataAccessStatus": "RequestNotSent",
    "oldestNhsRecordDate": "2026-09-16",
    "nhsNumber": "string",
    "lastInvitationEmailDate": "2026-09-16T17:06:38.657Z",
    "lastAccessRequestEmailDate": "2026-09-16T17:06:38.657Z"
  }
]
```

400	Invalid pagination parameters (limit > 1000, limit < 1, or offset < 0), or invalid filter value for connectionStatus, dataAccessStatus, patientDataAccessLimited, gpDataAccessLimited, dobMismatch, surnameMismatch, or nhsNumber Media type **application/json; charset=utf-8** **Example Value** | Schema	*No links*

```
{
  "errorMessage": "No external client found for the provided API ke
y",
  "errorCode": "ClientNotFound"
}
```

401	Missing API key (empty body). Unknown key typically returns 404 ClientNotFound.	*No links*
403	Organisation contract not signed (`OrganisationContractNotSigned`), or EHR API disabled (`ApiDisabled`) Media type **application/json; charset=utf-8** **Example Value** | Schema	*No links*

Code	Description	Links
404	Organisation not found Media type application/json; charset=utf-8 **Example Value** | Schema	*No links*

```
{
  "errorMessage": "No external client found for the provided API key",
  "errorCode": "ClientNotFound"
}
```

POST `/organisations/{extOrganisationId}/patients/{extPatientId}/connection-email`
Connect Patient by Email

Sends an email inviting a patient to sign up and grant permission for the organisation to view NHS records.

- If the patient does not exist, ORB creates a new patient record and sends an NHS invitation email.
- If the patient exists but is not connected, ORB validates that date of birth and surname match the existing ORB record (email match); a mismatch returns **409** `PatientDetailsMismatch`. Other request fields are not applied on Connect (use Update Patient). ORB then sends the invitation email directly.
- If the patient is already connected, ORB may send a data-access request email only while `dataAccessStatus` is **RequestNotSent**, **RequestSent**, or **Declined** (not after **Reviewed**, and not when `connectionStatus` is **DataMismatch** or **Declined**), subject to the data-access rate limit.

The EHR may call this endpoint again to send a **reminder**. ORB may rate-limit NHS invitation and data-access request emails per patient per organisation over a rolling 24 hours. An NHS invitation can be resent when `resend` is true while InviteSent and the invitation limit allows, or without `resend` when connectionStatus is Declined. A data-access request reminder does not require `resend` and is issued while status is RequestNotSent, RequestSent, or Declined — only the data-access rate limit applies. Exceeding a limit returns **429** `ResendLimitExceeded`.

Link validity: NHS registration links expire after a system-configurable period (7 days by default). Generating a replacement invalidates the previous registration link and restarts the expiry period. Data-access / consent emails open the ORB login page and do not expire after a fixed number of days (they are not timed invitation tokens); the patient must sign in before reviewing access.

Parameters Try it out

Name	Description
extOrganisationId * required `string` *(path)*	External organisation ID (EHR) *Example* : extOrganisationKey

Name	Description
	extOrganisationKey
extPatientId * required `string` *(path)*	External patient ID (EHR) *Example* : extPatientKey extPatientKey

Request body required

application/json

Example Value | Schema

```
{
  "title": "string",
  "firstName": "string",
  "lastName": "string",
  "dateOfBirth": "2026-09-16",
  "sex": "string",
  "emailAddress": "string",
  "postcode": "string",
  "requestingClinicianId": "string",
  "resend": true
}
```

Responses

Code	Description	Links
200	Invite path — connectionStatus is InviteSent (invitation email sent, or already invited and invite flow still applies) Media type application/json; charset=utf-8 Controls `Accept` header. **Example Value** | Schema	*No links*

```
{
  "connectionStatus": "InviteNotSent",
  "dobMismatch": true,
  "surnameMismatch": true,
  "patientDataAccessLimited": true,
  "gpDataAccessLimited": true,
  "dataAccessStatus": "RequestNotSent",
  "oldestNhsRecordDate": "2026-09-16",
  "lastInvitationEmailDate": "2026-09-16T17:06:38.660Z",
  "lastAccessRequestEmailDate": "2026-09-16T17:06:38.660Z"
}
```

Code	Description	Links
201	Patient is Connected (NHS registration complete; a data-access request email may be sent when applicable) Media type application/json; charset=utf-8 **Example Value** | Schema `{ "connectionStatus": "InviteNotSent", "dobMismatch": true, "surnameMismatch": true, "patientDataAccessLimited": true, "gpDataAccessLimited": true, "dataAccessStatus": "RequestNotSent", "oldestNhsRecordDate": "2026-09-16", "lastInvitationEmailDate": "2026-09-16T17:06:38.660Z", "lastAccessRequestEmailDate": "2026-09-16T17:06:38.660Z" }`	*No links*
400	Connection failed due to invalid request or validation error Media type application/json; charset=utf-8 **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*
401	Missing API key (empty body). Unknown key typically returns 404 ClientNotFound.	*No links*
403	Organisation contract not signed (`OrganisationContractNotSigned`), or EHR API disabled (`ApiDisabled`) Media type application/json; charset=utf-8 **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*
404	Organisation or requesting clinician not found Media type application/json; charset=utf-8 **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API ke`	*No links*

Code	Description	Links

```
y",
  "errorCode": "ClientNotFound"
}
```

409	Conflict — external patient ID in use, or DOB/surname mismatch (`PatientDetailsMismatch`). Same 409 on Connect by Email and Connect by Link. Distinct from 422.	*No links*

Media type

application/json; charset=utf-8

Example Value | Schema

```
{
  "errorMessage": "No external client found for the provided API ke
y",
  "errorCode": "ClientNotFound"
}
```

422	DataMismatch — NHS login revealed a mismatch between ORB and NHS data	*No links*

Media type

application/json; charset=utf-8

Example Value | Schema

```
{
  "connectionStatus": "InviteNotSent",
  "dobMismatch": true,
  "surnameMismatch": true,
  "patientDataAccessLimited": true,
  "gpDataAccessLimited": true,
  "dataAccessStatus": "RequestNotSent",
  "oldestNhsRecordDate": "2026-09-16",
  "lastInvitationEmailDate": "2026-09-16T17:06:38.661Z",
  "lastAccessRequestEmailDate": "2026-09-16T17:06:38.661Z"
}
```

429	Rate limit exceeded — the maximum number of connection emails allowed per patient per organisation in 24 hours has been reached (`ResendLimitExceeded`)	*No links*

Media type

application/json; charset=utf-8

Example Value | Schema

```
{
  "errorMessage": "Rate limit exceeded",
  "errorCode": "ResendLimitExceeded"
}
```

POST `/organisations/{extOrganisationId}/patients/{extPatientId}/connection-link`

Connect Patient by Link

Returns an invitation link which can be sent to a patient as part of a link request.

- If the patient does not exist, ORB creates a new patient record and returns an NHS invitation link (**201**, `connectionStatus` **InviteSent**).
- If the patient exists but is not connected, ORB validates that date of birth and surname match the existing ORB record (email match); a mismatch returns **409** `PatientDetailsMismatch` (same as Connect by Email). Other request fields are not applied on Connect (use Update Patient). When an invitation is issued, an NHS invitation link is returned (**201**, `connectionStatus` **InviteSent**).
- If the patient is already connected, response code **201** is returned with no invitation link.

In all previous cases, a data-access request link is returned only while `dataAccessStatus` is **RequestNotSent**, **RequestSent**, or **Declined** (not after **Reviewed**, and not when `connectionStatus` is **DataMismatch** or **Declined**), subject to the data-access rate limit. When an invitation or data-access link is issued, `declineInvitationLink` and/or `declineDataAccessRequestLink` are returned as well.

Calling this endpoint again allows the EHR to obtain a fresh link as a **reminder**. An NHS invitation link is returned again only when `resend` is true while InviteSent (and the invitation rate limit allows), or without `resend` when connectionStatus is Declined. A data-access request link can be returned again only while status is RequestNotSent, RequestSent, or Declined and the data-access rate limit allows — `resend` is not required for data-access reminders. Exceeding a limit returns **429** `ResendLimitExceeded`.

Partners should treat **201** as the invitation success path. HTTP **200** is mapped only if `connectionStatus` were still InviteNotSent or InviteExpired; after a normal successful Link call that issues an invitation, status is already InviteSent and the response is **201**.

Link validity: NHS registration links expire after a system-configurable period (7 days by default). Generating a replacement invalidates the previous registration link and restarts the expiry period. The data-access / consent link opens the ORB login page and does not expire after a fixed number of days (it is not a timed invitation token); the patient must sign in before reviewing access.

Parameters Try it out

Name	Description
extOrganisationId * required `string` *(path)*	External organisation ID (EHR) *Example* : extOrganisationKey extOrganisationKey
extPatientId * required `string` *(path)*	External patient ID (EHR) *Example* : extPatientKey extPatientKey

Request body required application/json

Example Value | Schema

```
{
  "title": "string",
  "firstName": "string",
  "lastName": "string",
```

```
  "dateOfBirth": "2026-09-16",
  "sex": "string",
  "emailAddress": "string",
  "postcode": "string",
  "requestingClinicianId": "string",
  "resend": true
}
```

Responses

Code	Description	Links
200	Mapped only if connectionStatus were still InviteNotSent or InviteExpired. After a normal successful Link call that issues an invitation, status is already InviteSent and the response is 201 — do not rely on 200 for invite success. Media type **application/json; charset=utf-8** Controls `Accept` header. **Example Value** | Schema	*No links*

```
{
  "invitationLink": "string",
  "declineInvitationLink": "string",
  "dataAccessRequestLink": "string",
  "declineDataAccessRequestLink": "string",
  "connectionStatus": "InviteNotSent",
  "dobMismatch": true,
  "surnameMismatch": true,
  "patientDataAccessLimited": true,
  "gpDataAccessLimited": true,
  "dataAccessStatus": "RequestNotSent",
  "oldestNhsRecordDate": "2026-09-16",
  "lastInvitationEmailDate": "2026-09-16T17:06:38.663Z",
  "lastAccessRequestEmailDate": "2026-09-16T17:06:38.663Z"
}
```

201	Typical success — connectionStatus is InviteSent or Connected. When an NHS invitation link is issued, ORB advances status to InviteSent and returns 201. Treat 201 as the invitation success path; data-access link returned when applicable. Media type **application/json; charset=utf-8** **Example Value** | Schema	*No links*

```
{
  "invitationLink": "string",
  "declineInvitationLink": "string",
  "dataAccessRequestLink": "string",
  "declineDataAccessRequestLink": "string",
  "connectionStatus": "InviteNotSent",
  "dobMismatch": true,
  "surnameMismatch": true,
  "patientDataAccessLimited": true,
  "gpDataAccessLimited": true,
```

Code	Description	Links

```
  "dataAccessStatus": "RequestNotSent",
  "oldestNhsRecordDate": "2026-09-16",
  "lastInvitationEmailDate": "2026-09-16T17:06:38.664Z",
  "lastAccessRequestEmailDate": "2026-09-16T17:06:38.664Z"
}
```

400	Connection failed due to invalid request or validation error	*No links*

Media type

application/json; charset=utf-8

Example Value | Schema

```
{
  "errorMessage": "No external client found for the provided API ke
y",
  "errorCode": "ClientNotFound"
}
```

401	Missing API key (empty body). Unknown key typically returns 404 ClientNotFound.	*No links*
403	Organisation contract not signed (`OrganisationContractNotSigned`), or EHR API disabled (`ApiDisabled`)	*No links*

Media type

application/json; charset=utf-8

Example Value | Schema

```
{
  "errorMessage": "No external client found for the provided API ke
y",
  "errorCode": "ClientNotFound"
}
```

404	Organisation or requesting clinician not found	*No links*

Media type

application/json; charset=utf-8

Example Value | Schema

```
{
  "errorMessage": "No external client found for the provided API ke
y",
  "errorCode": "ClientNotFound"
}
```

409	Conflict — external patient ID in use, or DOB/surname mismatch (`PatientDetailsMismatch`). Same 409 on Connect by Email and Connect by Link. Distinct from 422.	*No links*

Media type

application/json; charset=utf-8

Example Value | Schema

Code	Description	Links

```
{
  "errorMessage": "No external client found for the provided API key",
  "errorCode": "ClientNotFound"
}
```

422 DataMismatch — NHS login revealed a mismatch between ORB and NHS data

No links

Media type

application/json; charset=utf-8

Example Value | Schema

```
{
  "invitationLink": "string",
  "declineInvitationLink": "string",
  "dataAccessRequestLink": "string",
  "declineDataAccessRequestLink": "string",
  "connectionStatus": "InviteNotSent",
  "dobMismatch": true,
  "surnameMismatch": true,
  "patientDataAccessLimited": true,
  "gpDataAccessLimited": true,
  "dataAccessStatus": "RequestNotSent",
  "oldestNhsRecordDate": "2026-09-16",
  "lastInvitationEmailDate": "2026-09-16T17:06:38.665Z",
  "lastAccessRequestEmailDate": "2026-09-16T17:06:38.665Z"
}
```

429 Rate limit exceeded — the maximum number of connection links allowed per patient per organisation in 24 hours has been reached (`ResendLimitExceeded`)

No links

Media type

application/json; charset=utf-8

Example Value | Schema

```
{
  "errorMessage": "Rate limit exceeded",
  "errorCode": "ResendLimitExceeded"
}
```

GET `/organisations/{extOrganisationId}/patients/{extPatientId}/connection`

Get Patient Connection Status

Returns the connection status and access levels for the patient.

Includes `nhsNumber` from the patient's NHS Login record after NHS Login verification (read-only; omitted or null if no NHS Login on record).

Parameters

Try it out

Name	Description
extOrganisationId * required `string` *(path)*	External organisation ID (EHR) *Example* : extOrganisationKey extOrganisationKey
extPatientId * required `string` *(path)*	External patient ID (EHR) *Example* : extPatientKey extPatientKey

Responses

Code	Description	Links
200	OK Media type **application/json; charset=utf-8** Controls `Accept` header. **Example Value** | Schema	*No links*

```
{
  "connectionStatus": "InviteNotSent",
  "dobMismatch": true,
  "surnameMismatch": true,
  "patientDataAccessLimited": true,
  "gpDataAccessLimited": true,
  "dataAccessStatus": "RequestNotSent",
  "oldestNhsRecordDate": "2026-09-16",
  "lastInvitationEmailDate": "2026-09-16T17:06:38.667Z",
  "lastAccessRequestEmailDate": "2026-09-16T17:06:38.667Z",
  "nhsNumber": "string"
}
```

400	Bad request Media type **application/json; charset=utf-8** **Example Value** | Schema	*No links*

```
{
  "errorMessage": "No external client found for the provided API ke
y",
  "errorCode": "ClientNotFound"
}
```

Code	Description	Links
401	Missing API key (empty body). Unknown key typically returns 404 ClientNotFound.	*No links*
403	Organisation contract not signed (`OrganisationContractNotSigned`), or EHR API disabled (`ApiDisabled`) Media type **application/json; charset=utf-8** **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*
404	Patient or organisation not found Media type **application/json; charset=utf-8** **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*

DELETE `/organisations/{extOrganisationId}/patients/{extPatientId}/connection`

Remove Patient Connection

Removes the link between the patient and the organisation. Use this when a patient leaves a clinic; doing so is treated as an implied retraction of the organisation's permission to view that patient's records.

This is an **unlink** only for the organisation in the request:

- The EHR connection for this organisation is removed (List Patients / token / connection / status / permissions for this patient and organisation fail).
- The patient-to-organisation link for that organisation is also removed.
- The underlying patient account, PatientLogin, and NHS record data are retained. Other organisation links are untouched.
- If the patient still has other organisations, they can continue to log in and use those.
- If this was the patient's last organisation, they cannot log in until linked to at least one organisation again; the account and any completed NHS registration are kept.
- On re-connect, ORB treats them as an existing patient and typically returns a data-access / data-share link rather than a new NHS invitation link.

Parameters

Try it out

Name	Description
extOrganisationId * required `string` *(path)*	External organisation ID (EHR) *Example* : extOrganisationKey extOrganisationKey
extPatientId * required `string` *(path)*	External patient ID (EHR) *Example* : extPatientKey extPatientKey

Responses

Code	Description	Links
200	Connection removed (no response body)	*No links*
400	Deletion failed due to invalid request or validation error Media type **application/json; charset=utf-8** **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*
401	Missing API key (empty body). Unknown key typically returns 404 ClientNotFound.	*No links*
403	Organisation contract not signed (`OrganisationContractNotSigned`), or EHR API disabled (`ApiDisabled`) Media type **application/json; charset=utf-8** **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*

Code	Description	Links
404	Patient or organisation not found Media type application/json; charset=utf-8 **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*
500	Unexpected server error Media type application/json; charset=utf-8 **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*

GET `/organisations/{extOrganisationId}/patients/{extPatientId}/permissions`
Get Granted Permissions

Returns the list of data permissions that the patient has granted to this organisation. Requires that the patient is connected to the organisation.

If the patient connection status is `Connected`, this endpoint returns the granted permissions (HTTP 200). If the connection status is any other value (`InviteNotSent`, `InviteSent`, `InviteExpired`, `DataMismatch`, or `Declined`), this endpoint returns HTTP 404 with `errorCode` `PatientInvalidStatus`. Permissions are only available after NHS connection is established (`Connected`).

Issuing an access token checks that the patient is Connected and that organisation/patient data access is not limited. It does not check individual dataset grants (e.g. Allergies, Documents); those are enforced inside the widget when NHS record data is fetched. This permissions endpoint is informational for the EHR.

Parameters Try it out

Name	Description
extOrganisationId * required `string` *(path)*	External organisation ID (EHR) *Example* : extOrganisationKey

Name	Description
	extOrganisationKey
extPatientId * required `string` *(path)*	External patient ID (EHR) *Example* : extPatientKey extPatientKey

Responses

Code	Description	Links
200	OK — returns array of permission names Media type application/json; charset=utf-8 Controls `Accept` header. **Example Value** | Schema `[ "Allergies", "Medication History", "Immunisations" ]`	*No links*
400	Bad request Media type application/json; charset=utf-8 **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*
401	Missing API key (empty body). Unknown key typically returns 404 ClientNotFound.	*No links*
403	Organisation not authorised to view this patient Media type application/json; charset=utf-8 **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API ke`	*No links*

Code	Description	Links
	`y", "errorCode": "ClientNotFound" }`	
404	Patient or organisation not found, or patient is not Connected (`PatientInvalidStatus` — includes InviteNotSent, InviteSent, InviteExpired, DataMismatch, Declined) Media type **application/json; charset=utf-8** **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*

PATCH `/organisations/{extOrganisationId}/patients/{extPatientId}` Update Patient

Updates one or more demographic attributes of an existing patient within an organisation. Typically used when the EHR updates patient details such as contact information or postcode.

- **No NHS Login** — supplied `firstName`, `lastName`, and `dateOfBirth` overwrite ORB data; other supplied fields also overwrite. Omitted fields are unchanged.
- **NHS Login present** — `firstName`, `lastName`, and `dateOfBirth` are not overwritten. ORB compares these three fields on the request to the NHS-controlled values on record. A mismatch, including when any of them is omitted, returns **409** `PatientDetailsMismatch`. To update other fields (`title`, `sex`, `emailAddress`, `postcode`), include matching `firstName`, `lastName`, and `dateOfBirth`.

Parameters | **Try it out**

Name	Description
extOrganisationId * required `string` *(path)*	External organisation ID (EHR) *Example* : extOrganisationKey extOrganisationKey
extPatientId * required `string` *(path)*	External patient ID (EHR) *Example* : extPatientKey extPatientKey

Request body required — **application/json**

Example Value | Schema

```
{
  "title": "string",
  "firstName": "string",
  "lastName": "string",
  "dateOfBirth": "2026-09-16",
  "sex": "string",
  "emailAddress": "string",
  "postcode": "string"
}
```

Responses

Code	Description	Links
200	Patient updated — returns current demographic fields stored in ORB after the update Media type **application/json; charset=utf-8** Controls `Accept` header. **Example Value** | Schema `{ "title": "Ms", "sex": "Male", "dateOfBirth": "1933-11-14", "firstName": "Simon", "lastName": "OLLEY", "postcode": "asdas123", "emailAddress": "patient@example.com" }`	*No links*
400	Update failed due to invalid request or validation error Media type **application/json; charset=utf-8** **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*
401	Missing API key (empty body). Unknown key typically returns 404 ClientNotFound.	*No links*
403	Organisation contract not signed (`OrganisationContractNotSigned`), or EHR API disabled (`ApiDisabled`) Media type	*No links*

Code	Description	Links
	application/json; charset=utf-8 **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	
404	Patient or organisation not found Media type application/json; charset=utf-8 **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*
409	Conflict — patient has NHS Login and request `firstName` / `lastName` / `dateOfBirth` do not match the record, including when any of those fields is omitted (`PatientDetailsMismatch`) Media type application/json; charset=utf-8 **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*
500	Unexpected server error Media type application/json; charset=utf-8 **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*

Patient Access

Request short-lived access tokens for the ORB widget

POST `/organisations/{extOrganisationId}/patients/{extPatientId}/access-token`

Request Access Token

Returns a short-lived JWT used to access patient data via the ORB widget (iframe).

Security Model:

- The EHR must make this request server-side (never from the browser).
- The request must include the `extUserId` of the clinician requesting access.
- ORB validates that the user exists and belongs to the organisation, the user has `isClinician: true`, the organisation is not suspended, the organisation has access to the patient, the patient is Connected, and organisation/patient data access is not limited (`patientDataAccessLimited` / `gpDataAccessLimited`). Individual dataset grants (e.g. Allergies, Documents) are enforced inside the widget when data is fetched, not at token issue.
- The returned JWT is scoped to the specific user, patient, and organisation and includes `clientScopeId`.
- Token expires in 15 minutes.
- Requesting an access token is recorded as clinician access for audit purposes.
- Issuing a token does **not** mean clinician widget T&C are accepted, and does **not** mean the organisation NHS module is enabled. T&C and the NHS-module unavailable screen are enforced inside the ORB widget (per user per organisation for T&C; mandatory tick-box; NHS data blocked until accepted). The External API does not expose accept/query endpoints for T&C.

Parameters Try it out

Name	Description
extOrganisationId * required `string` *(path)*	External organisation ID (EHR) *Example* : extOrganisationKey extOrganisationKey
extPatientId * required `string` *(path)*	External patient ID (EHR) *Example* : extPatientKey extPatientKey

Request body required application/json

Example Value | Schema

```
{
  "extUserId": "string"
}
```

Responses

Code	Description	Links
200	Token issued successfully Media type application/json; charset=utf-8 Controls `Accept` header. **Example Value** | Schema `{ "accessToken": "string", "expiresIn": 900 }`	*No links*
400	Invalid request (missing extUserId) Media type application/json; charset=utf-8 **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*
401	Missing API key (empty body). Unknown key typically returns 404 ClientNotFound.	*No links*
403	Access denied — `NonClinicianAccess` (`isClinician: false`); `OrgIsSuspended` ; `PatientInvalidStatus` (patient not Connected); `PatientDataAccessLimited` (patient/GP data access limited); `OrganisationContractNotSigned` ; or `ApiDisabled` / `ApiKeyExpired` Media type application/json; charset=utf-8 **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*
404	Patient, user, or organisation not found Media type application/json; charset=utf-8 **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key",`	*No links*

Code	Description	Links
	`"errorCode": "ClientNotFound"` `}`	
500	Internal server error Media type application/json; charset=utf-8 **Example Value** | Schema `{` `"errorMessage": "No external client found for the provided API key",` `"errorCode": "ClientNotFound"` `}`	*No links*

Stats

Governing-body analytics — consent uptake, widget T&C acceptance, and NHS records viewed

GET `/stats/links-sent` Get Links Sent Stats

Distinct patients sent an NHS invitation and/or a data-access request, per organisation.

Both Connect by Email and Connect by Link count as a send. Counts are distinct patients, not email/link volume. Without fromDate/toDate: current snapshot of patients who have ever been sent. With fromDate/toDate: distinct patients with at least one send in that window. Results are limited to organisations for this API key. Not gated by organisation-contract signing.

Parameters Try it out

Name	Description
extOrganizationKey `string` *(query)*	EHR organisation ID (same value as extOrganisationId on other endpoints). Omit to return all organisations for this API key. extOrganizationKey
fromDate `string($date-time)` *(query)*	Include sends at or after this time (ISO-8601) fromDate
toDate `string($date-time)` *(query)*	Include sends at or before this time (ISO-8601) toDate

Responses

Code	Description	Links
200	OK Media type application/json; charset=utf-8 Controls `Accept` header. **Example Value** | Schema `[ { "organizationName": "string", "extOrganisationKey": "string", "invitationsSent": 0, "dataAccessRequestsSent": 0 } ]`	*No links*
400	Bad request (including fromDate after toDate) Media type application/json; charset=utf-8 **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*
401	Missing API key (empty body). Unknown key typically returns 404 ClientNotFound.	*No links*
403	EHR API disabled (`ApiDisabled`) Media type application/json; charset=utf-8 **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*
404	Unknown API key (`ClientNotFound`), or extOrganizationKey is not an organisation for this API key (`OrgNotFound`) Media type application/json; charset=utf-8 **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key",`	*No links*

Code	Description	Links
	`{ "errorCode": "ClientNotFound" }`	

GET `/stats/consent-granted` Get Consent Granted Stats

Among patients sent a data-access request, how many currently have at least one NHS dataset granted to the organisation.

This is dataset access, not organisation-contract signing and not clinician widget T&C. Date-range filter (optional) selects patients by when the data-access request was sent; consentGranted uses current dataset flags. Results are limited to organisations for this API key. Not gated by organisation-contract signing.

Parameters

Try it out

Name	Description
extOrganizationKey `string` *(query)*	EHR organisation ID (same value as extOrganisationId on other endpoints). Omit to return all organisations for this API key. extOrganizationKey
fromDate `string($date-time)` *(query)*	Include sends at or after this time (ISO-8601) fromDate
toDate `string($date-time)` *(query)*	Include sends at or before this time (ISO-8601) toDate

Responses

Code	Description	Links
200	OK Media type **application/json; charset=utf-8** Controls `Accept` header. **Example Value** | Schema `[ { "organizationName": "string",`	*No links*

Code	Description	Links

```
    "extOrganisationKey": "string",
    "dataAccessRequestsSent": 0,
    "consentGranted": 0
  }
]
```

400	Bad request (including fromDate after toDate)	*No links*

Media type

application/json; charset=utf-8

Example Value | Schema

```
{
  "errorMessage": "No external client found for the provided API ke
y",
  "errorCode": "ClientNotFound"
}
```

401	Missing API key (empty body). Unknown key typically returns 404 ClientNotFound.	*No links*
403	EHR API disabled (`ApiDisabled`)	*No links*

Media type

application/json; charset=utf-8

Example Value | Schema

```
{
  "errorMessage": "No external client found for the provided API ke
y",
  "errorCode": "ClientNotFound"
}
```

404	Unknown API key (`ClientNotFound`), or extOrganizationKey is not an organisation for this API key (`OrgNotFound`)	*No links*

Media type

application/json; charset=utf-8

Example Value | Schema

```
{
  "errorMessage": "No external client found for the provided API ke
y",
  "errorCode": "ClientNotFound"
}
```

GET `/stats/consent-declined` Get Consent Declined Stats

Patients who declined via the ORB decline page. Invitation decline (`connectionStatus = Declined`) and data-access decline (`dataAccessStatus = Declined`) are counted separately — distinct from no-response / not granted yet.

Date-range filter (optional) selects patients by when the invitation or data-access request was sent; decline fields use current status. Results are limited to organisations for this API key. Not gated by organisation-contract signing.

Parameters

Try it out

Name	Description
extOrganizationKey `string` *(query)*	EHR organisation ID (same value as extOrganisationId on other endpoints). Omit to return all organisations for this API key. extOrganizationKey
fromDate `string($date-time)` *(query)*	Include sends at or after this time (ISO-8601) fromDate
toDate `string($date-time)` *(query)*	Include sends at or before this time (ISO-8601) toDate

Responses

Code	Description	Links
200	OK Media type application/json; charset=utf-8 Controls `Accept` header. **Example Value** | Schema	*No links*
400	Bad request (including fromDate after toDate) Media type application/json; charset=utf-8 **Example Value** | Schema	*No links*

```
[
  {
    "organizationName": "string",
    "extOrganisationKey": "string",
    "invitationsSent": 0,
    "declinedInvitations": 0,
    "dataAccessRequestsSent": 0,
    "dataAccessRequestsDeclined": 0
  }
]
```

Code	Description	Links
	`{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	
401	Missing API key (empty body). Unknown key typically returns 404 ClientNotFound.	*No links*
403	EHR API disabled (`ApiDisabled`)	*No links*

Media type

application/json; charset=utf-8

Example Value | Schema

```
{
  "errorMessage": "No external client found for the provided API key",
  "errorCode": "ClientNotFound"
}
```

404	Unknown API key (`ClientNotFound`), or extOrganizationKey is not an organisation for this API key (`OrgNotFound`)	*No links*

Media type

application/json; charset=utf-8

Example Value | Schema

```
{
  "errorMessage": "No external client found for the provided API key",
  "errorCode": "ClientNotFound"
}
```

GET `/stats/no-response` Get No-Response Stats

Patients sent an invitation or data-access request who have neither completed nor declined.

Invitation no-response: not Connected and not Declined (includes InviteSent, InviteExpired, DataMismatch). Data-access no-response: not dataAccessStatus = Declined and no NHS dataset enabled for the organisation. Date-range filter (optional) selects patients by when the send occurred; outcome fields use current status. Results are limited to organisations for this API key. Not gated by organisation-contract signing.

Parameters

Try it out

Name	Description
extOrganizationKey `string` *(query)*	EHR organisation ID (same value as extOrganisationId on other endpoints). Omit to return all organisations for this API key. extOrganizationKey
fromDate `string($date-time)` *(query)*	Include sends at or after this time (ISO-8601) fromDate
toDate `string($date-time)` *(query)*	Include sends at or before this time (ISO-8601) toDate

Responses

Code	Description	Links
200	OK Media type **application/json; charset=utf-8** Controls `Accept` header. **Example Value** | Schema	*No links*

```
[
  {
    "organizationName": "string",
    "extOrganisationKey": "string",
    "invitationsSent": 0,
    "noResponseInvitations": 0,
    "dataAccessRequestsSent": 0,
    "noResponseDataAccessRequests": 0
  }
]
```

400	Bad request (including fromDate after toDate) Media type **application/json; charset=utf-8** **Example Value** | Schema	*No links*

```
{
  "errorMessage": "No external client found for the provided API ke
y",
  "errorCode": "ClientNotFound"
}
```

401	Missing API key (empty body). Unknown key typically returns 404 ClientNotFound.	*No links*

Code	Description	Links
403	EHR API disabled (`ApiDisabled`) Media type application/json; charset=utf-8 **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*
404	Unknown API key (`ClientNotFound`), or extOrganizationKey is not an organisation for this API key (`OrgNotFound`) Media type application/json; charset=utf-8 **Example Value** | Schema `{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	*No links*

GET `/stats/widget-terms` Get Widget Terms Stats

Current snapshot of clinician widget Terms & Conditions acceptance per organisation (not the organisation contract). No date-range filter.

Results are limited to organisations for this API key (Governing Body). Archived EHR users are excluded. `isClinician` and `isLocum` are independent — a locum clinician is counted in both splits. Not-signed includes users who have never opened the widget (there is no T&C decline flag). Not gated by organisation-contract signing.

Parameters Try it out

Name	Description
extOrganizationKey `string` *(query)*	EHR organisation ID (same value as extOrganisationId on other endpoints). Omit to return all organisations for this API key. extOrganizationKey

Responses

Code	Description	Links
200	OK Media type application/json; charset=utf-8 Controls `Accept` header. **Example Value** | Schema	*No links*

```
[
  {
    "organizationName": "string",
    "extOrganisationKey": "string",
    "signed": 0,
    "notSigned": 0,
    "clinicianSigned": 0,
    "clinicianNotSigned": 0,
    "locumSigned": 0,
    "locumNotSigned": 0
  }
]
```

400	Bad request Media type application/json; charset=utf-8 **Example Value** | Schema	*No links*

```
{
  "errorMessage": "No external client found for the provided API ke
y",
  "errorCode": "ClientNotFound"
}
```

401	Missing API key (empty body). Unknown key typically returns 404 ClientNotFound.	*No links*
403	EHR API disabled (`ApiDisabled`) Media type application/json; charset=utf-8 **Example Value** | Schema	*No links*

```
{
  "errorMessage": "No external client found for the provided API ke
y",
  "errorCode": "ClientNotFound"
}
```

404	Unknown API key (`ClientNotFound`), or extOrganizationKey is not an organisation for this API key (`OrgNotFound`) Media type application/json; charset=utf-8 **Example Value** | Schema	*No links*

Code	Description	Links
	`{ "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }`	

GET `/stats/nhs-records-viewed` Get NHS Records Viewed Stats

Distinct patients whose NHS records were viewed in the clinician widget, per organisation and per user.

Counts unique patients from successful clinician views in the widget, derived from ORB's confidential viewing audit (unsuccessful retrievals are excluded). Individual visits are not listed on the External API; requests to investigate a particular access event should be directed to ORB Support. Organisation `patientsViewed` is distinct patients for the practice, not the sum of per-user counts. All non-archived users are listed (including `patientsViewed: 0`). No page-level breakdown. Optional `fromDate` / `toDate` filter views. Results are limited to organisations for this API key. Not gated by organisation-contract signing.

Parameters Try it out

Name	Description
extOrganizationKey `string` *(query)*	EHR organisation ID (same value as extOrganisationId on other endpoints). Omit to return all organisations for this API key. extOrganizationKey
fromDate `string($date-time)` *(query)*	Include views at or after this time (ISO-8601) fromDate
toDate `string($date-time)` *(query)*	Include views at or before this time (ISO-8601) toDate

Responses

Code	Description	Links
200	OK Media type application/json; charset=utf-8	*No links*

Code	Description	Links

	Controls `Accept` header.
	
	Example Value | Schema
	
	[
	  {
	  "organizationName": "string",
	  "extOrganisationKey": "string",
	  "patientsViewed": 0,
	  "users": [
	  {
	  "extUserId": "string",
	  "userName": "string",
	  "isClinician": true,
	  "isLocum": true,
	  "patientsViewed": 0
	  }
	  ]
	  }
	]	

400	Bad request (including fromDate after toDate)
	
	Media type
	application/json; charset=utf-8
	
	Example Value | Schema
	
	{
	  "errorMessage": "No external client found for the provided API key",
	  "errorCode": "ClientNotFound"
	}
		No links

401	Missing API key (empty body). Unknown key typically returns 404 ClientNotFound.	*No links*

403	EHR API disabled (`ApiDisabled`)
	
	Media type
	application/json; charset=utf-8
	
	Example Value | Schema
	
	{
	  "errorMessage": "No external client found for the provided API key",
	  "errorCode": "ClientNotFound"
	}
		No links

404	Unknown API key (`ClientNotFound`), or extOrganizationKey is not an organisation for this API key (`OrgNotFound`) Media type **application/json; charset=utf-8** **Example Value** | Schema { "errorMessage": "No external client found for the provided API key",	*No links*

Code	Description	Links
	`{ "errorCode": "ClientNotFound" }`	

Schemas

ConnectionStatus string

Patient's NHS login / connection state.

- InviteNotSent – Invitation not yet sent
- InviteSent – Invitation sent, patient has not logged in via NHS yet
- InviteExpired – Invitation sent but expired
- DataMismatch – NHS login revealed a mismatch between ORB and NHS data
- Connected – Patient completed a valid NHS registration with no mismatches
- Declined – Patient declined the NHS invitation via the decline link (before NHS registration). Calling Connect again can send a new invitation.

Enum:

[InviteNotSent, InviteSent, InviteExpired, DataMismatch, Connected, Declined]

DataAccessStatus string

Whether the patient has been asked to grant data access and whether they have done so.

- RequestNotSent – Request not sent yet
- RequestSent – Request sent to the patient
- Reviewed – Patient granted the organisation access to some NHS data
- Declined – Patient declined the data-access request via the decline link. Connect may send a new request unless connectionStatus is DataMismatch or Declined.

Connect issues a data-access request email/link while status is RequestNotSent, RequestSent, or Declined (not after Reviewed).

Enum:

[RequestNotSent, RequestSent, Reviewed, Declined]

ErrorCode string

Enum:

[ClientNotFound, OrgNotFound, OrgLinkNotFound, UserNotFound, PatientNotFound, InvalidParameter, InvalidProperty, InvalidRequestData, UnsupportedMediaType, IdNotAvailable, NameNotAvailable, EmailNotAvailable, PatientInvalidStatus, PatientDetailsMismatch, ResendLimitExceeded, NonClinicianAccess, OrgIsSuspended, ApiDisabled, ApiKeyExpired, OrgAlreadyArchived, OrganisationContractNotSigned, OrganisationContractAlreadySigned, PatientDataAccessLimited, TermsNotAccepted, GenericError]

ErrorResponse ⌄ {

errorMessage*

⌄ string

example: Organisation not found

Human-readable error message

errorCode

ErrorCode ⌄ ErrorCode string

Enum:

⌄ [ClientNotFound, OrgNotFound, OrgLinkNotFound, UserNotFound, PatientNotFound, InvalidParameter, InvalidProperty, InvalidRequestData, UnsupportedMediaType, IdNotAvailable, NameNotAvailable, EmailNotAvailable, PatientInvalidStatus, PatientDetailsMismatch, ResendLimitExceeded, NonClinicianAccess, OrgIsSuspended, ApiDisabled, ApiKeyExpired, OrgAlreadyArchived, OrganisationContractNotSigned, OrganisationContractAlreadySigned, PatientDataAccessLimited, TermsNotAccepted, GenericError]

}

example: { "errorMessage": "No external client found for the provided API key", "errorCode": "ClientNotFound" }

ErrorResponseInvalidRequestData ⌄ {

description: Returned when the request body, query string, or path cannot be parsed or validated successfully, and no narrower `errorCode` applies. The response body is always the compact JSON object with `errorCode` and `errorMessage` only, as for **InvalidRequestData** in the API specification (Common Errors). `errorMessage` is assigned as follows:

- **General message** — Used when more than one validation issue is reported for the same request, and in typical cases where the problem lies in the **JSON request body** only—including a value outside a permitted enumeration (for example `"sex": "Female1"` when only defined values are accepted), or a property not defined for that operation (for example an unknown or misspelled field name in a PATCH or POST body). Request bodies must contain only properties listed for that endpoint; extra properties are rejected with 400, not ignored. In these cases `errorMessage` is a single standard sentence; clients must not assume a field-by-field breakdown in the message text.
- **Per-parameter message (query)** — Typically used when a **single** query (or equivalent) parameter does not match its expected type; `errorMessage` may then identify the parameter and the supplied value.

Other isolated query-parameter errors may follow the same pattern. The exact wording of `errorMessage` is not guaranteed across API versions; use it for display only and base integration logic on `errorCode`.

errorCode*
⌄ string
Enum:
⌄ [InvalidRequestData]

errorMessage*
⌄ string
example: One or more fields contain invalid values. Please verify the input data.
Intended for display: either the fixed general sentence, or—commonly—a short per-parameter line naming one query parameter and the rejected value when only that parameter is at fault (for example `The value '0sd' is not valid for Offset.`).

}

example: { "errorCode": "InvalidRequestData", "errorMessage": "One or more fields contain invalid values. Please verify the input data." }

PaginationMetadata ⌄ {

total*
⌄ integer
Total number of records

limit*
⌄ integer
Number of records requested per page

offset*
⌄ integer
Number of records skipped

hasMore*
⌄ boolean
Whether there are more records available

}

CreateOrganisationRequest ⌄ {

organisationName*
⌄ string
Unique Organisation name (case-insensitive)

address1*
⌄ string
First line of address

address2*
⌄ string
Second line of address

address3
⌄ string
Third line of address

address4
⌄ string
Fourth line of address

postcode*
⌄ string
Postcode

phoneNumber
⌄ string
Organisation phone number. May be omitted or empty.

cqcRegistrationNumber
⌄ string
CQC registration number. May be omitted or empty. Trimmed before storing.

researchOptOut
⌄ boolean
default: false
Research opt-out flag (defaults to false)

}

UpdateOrganisationRequest {

```
    organisationName
                                 string
                                Unique Organisation name (case-insensitive)

    address1
                                 string
                                First line of address

    address2
                                 string
                                Second line of address

    address3
                                 string
                                Third line of address

    address4
                                 string
                                Fourth line of address

    postcode
                                 string
                                Postcode

    phoneNumber
                                 string
                                nullable: true
                                Phone number. Send null to clear the stored number; omit to leave
                                unchanged.

    cqcRegistrationNumber
                                 string
                                nullable: true
                                CQC registration number (trimmed). Send null or an empty string
                                to clear the stored number; omit to leave unchanged.

    researchOptOut
                                 boolean
                                Research opt-out flag

    suspended
                                 boolean
                                Suspended flag

    autoDeleteDays
                                 integer
                                maximum: 180
                                default: 180
                                Auto-delete after suspension in days (max 180, default 180)

}
```

OrganisationSummary {

```
    extOrganisationId*
                                 string
                                External organisation ID (EHR)

    organisationName*
                                 string
                                Organisation name

    suspended*
                                 boolean
                                Suspension status

    autoDeleteDate
                                 string($date)
                                nullable: true
                                Auto-delete date in YYYY-MM-DD format when suspended; null if not
                                set

}
```

ContractStatusResponse {

extOrganisationId*
string
External organisation ID (EHR); same value as in the path

contractSigned*
boolean
true after successful organisation-contract signing; false until then

contractSignedAt
string($date-time)
nullable: true
UTC ISO-8601 timestamp of signing; present only when contractSigned is true, otherwise null

}

CreateUserRequest {

firstName*
string
User's first name

lastName*
string
User's last name

professionalRegNumber
string
Professional registration number. May be omitted or empty (e.g. clinicians without a registration number).

emailAddress
string
User's email address

isClinician*
boolean
`true` if the user is a clinical user; `false` for non-clinical users (e.g. administrative). Only clinical users may request patient access tokens.

isLocum*
boolean
`true` if the user is a temporary locum; `false` if a permanent employee

authorisedSignatory*
boolean
`true` if this user is an authorised signatory for the organisational contract (host-side marker; ORB does not re-check this flag when accepting the organisation contract in the iframe)

}

UpdateUserRequest {

- **firstName** — string
  User's first name
- **lastName** — string
  User's last name
- **professionalRegNumber** — string
  Professional registration number
- **emailAddress** — string
  User's email address
- **isClinician** — boolean
  If supplied, updates whether the user is a clinical user (`true`) or non-clinical (`false`)
- **isLocum** — boolean
  If supplied, updates whether the user is a locum (`true`) or permanent (`false`)
- **authorisedSignatory** — boolean
  If supplied, updates authorised signatory flag for the organisational contract

}

User {

- **extUserId*** — string
  External user ID (EHR)
- **firstName*** — string
  User's first name
- **lastName*** — string
  User's last name
- **professionalRegNumber** — string
  nullable: true
  Professional registration number (may be null or empty)
- **emailAddress** — string
  User's email address
- **isClinician*** — boolean
  `true` if clinical user; `false` if non-clinical
- **isLocum*** — boolean
  `true` if locum; `false` if permanent employee
- **authorisedSignatory*** — boolean
  `true` if authorised signatory for the organisational contract

}

```
PaginatedUsersResponse ⌄ {
    users*                          ⌄ [User ⌄ {
                                        extUserId*                  ⌄ string
                                                                    External user ID (EHR)

                                        firstName*                  ⌄ string
                                                                    User's first name

                                        lastName*                   ⌄ string
                                                                    User's last name

                                        professionalRegNumber       ⌄ string
                                                                    nullable: true
                                                                    Professional registration number (may
                                                                    be null or empty)

                                        emailAddress                ⌄ string
                                                                    User's email address

                                        isClinician*                ⌄ boolean
                                                                    true if clinical user; false if
                                                                    non-clinical

                                        isLocum*                    ⌄ boolean
                                                                    true if locum; false if
                                                                    permanent employee

                                        authorisedSignatory*        ⌄ boolean
                                                                    true if authorised signatory for
                                                                    the organisational contract

                                      }]
    pagination*                     PaginationMetadata ⌄ {
                                        total*                      ⌄ integer
                                                                    Total number of records

                                        limit*                      ⌄ integer
                                                                    Number of records requested per page

                                        offset*                     ⌄ integer
                                                                    Number of records skipped

                                        hasMore*                    ⌄ boolean
                                                                    Whether there are more records
                                                                    available

                                    }
}
```

UpdatePatientRequest {

```
    title
                                 string
                                Patient title

    firstName
                                 string
                                Patient's first name

    lastName
                                 string
                                Patient's last name (surname) — validated, not overwritten

    dateOfBirth
                                 string($date)
                                Date of birth in YYYY-MM-DD format — validated, not overwritten

    sex
                                 string
                                Patient sex (e.g. Male, Female)

    emailAddress
                                 string
                                Patient email address

    postcode
                                 string
                                Patient postcode

}
```

PatientDemographics {

```
    description:                Current patient demographic fields in ORB after a successful
                                update. Does not include extPatientId, connectionStatus, or other
                                list-only fields. Values may differ from the PATCH request where
                                NHS data takes precedence or where dateOfBirth / lastName were
                                validated but not overwritten.

    title
                                 string
                                Patient title (e.g. Mr, Ms)

    sex
                                 string
                                Patient sex (e.g. Male, Female)

    dateOfBirth
                                 string($date)
                                Date of birth in YYYY-MM-DD format

    firstName*
                                 string
                                Patient's first name

    lastName*
                                 string
                                Patient's last name (surname)

    postcode*
                                 string
                                Patient postcode

    emailAddress
                                 string
                                nullable: true
                                Patient email address

}
```

PatientSummary {

extPatientId*
string
External patient ID (EHR)

title
string
Patient title

firstName*
string
Patient's first name

lastName*
string
Patient's last name

dateOfBirth*
string($date)
Date of birth in YYYY-MM-DD format

sex
string
Patient sex (e.g. Male, Female)

emailAddress*
string
Patient email address

postcode
string
Patient postcode

connectionStatus*

ConnectionStatus ConnectionStatus string

Patient's NHS login / connection state.

- InviteNotSent – Invitation not yet sent
- InviteSent – Invitation sent, patient has not logged in via NHS yet
- InviteExpired – Invitation sent but expired
- DataMismatch – NHS login revealed a mismatch between ORB and NHS data
- Connected – Patient completed a valid NHS registration with no mismatches
- Declined – Patient declined the NHS invitation via the decline link (before NHS registration). Calling Connect again can send a new invitation.

Enum:

[InviteNotSent, InviteSent, InviteExpired, DataMismatch, Connected, Declined]

dobMismatch
boolean
True if date of birth mismatch detected (when connectionStatus is DataMismatch)

surnameMismatch
boolean
True if surname mismatch detected (when connectionStatus is DataMismatch)

patientDataAccessLimited
boolean
True if the patient has restricted their data partially or totally

gpDataAccessLimited
boolean
True if the GP has blocked the patient's data partially or totally

dataAccessStatus

DataAccessStatus DataAccessStatus string

Whether the patient has been asked to grant data access and whether they have done so.

- RequestNotSent – Request not sent yet
- RequestSent – Request sent to the patient

- Reviewed – Patient granted the organisation access to some NHS data
- Declined – Patient declined the data-access request via the decline link. Connect may send a new request unless connectionStatus is DataMismatch or Declined.

Connect issues a data-access request email/link while status is RequestNotSent, RequestSent, or Declined (not after Reviewed).

Enum:

[RequestNotSent, RequestSent, Reviewed, Declined]

oldestNhsRecordDate

string($date)
nullable: true
Date of oldest NHS record received (ISO-8601); null if none

nhsNumber

string
nullable: true
NHS number from NHS Login in ORB (read-only; optional; omitted or null if not on record)

lastInvitationEmailDate

string($date-time)
nullable: true
ISO-8601 date of the last NHS registration invitation email sent

lastAccessRequestEmailDate

string($date-time)
nullable: true
ISO-8601 date of the last data access request email sent

}

PaginatedPatientsResponse {

patients* [**PatientSummary** {

extPatientId* string
External patient ID (EHR)

title string
Patient title

firstName* string
Patient's first name

lastName* string
Patient's last name

dateOfBirth* string($date)
Date of birth in YYYY-MM-DD format

sex string
Patient sex (e.g. Male, Female)

emailAddress* string
Patient email address

postcode string
Patient postcode

connectionStatus* **ConnectionStatus**
ConnectionStatus string
Patient's NHS login / connection state.

- InviteNotSent – Invitation not yet sent
- InviteSent – Invitation sent, patient has not logged in via NHS yet
- InviteExpired – Invitation sent but expired
- DataMismatch – NHS login revealed a mismatch between ORB and NHS data
- Connected – Patient completed a valid NHS registration with no mismatches
- Declined – Patient declined the NHS invitation via the decline link (before NHS registration). Calling Connect again can send a new invitation.

Enum:

[InviteNotSent, InviteSent, InviteExpired, DataMismatch, Connected, Declined]

dobMismatch boolean
True if date of birth mismatch detected (when connectionStatus is DataMismatch)

surnameMismatch boolean
True if surname mismatch detected (when connectionStatus is DataMismatch)

patientDataAccessLimited

boolean
True if the patient has restricted their data partially or totally

gpDataAccessLimited

boolean
True if the GP has blocked the patient's data partially or totally

dataAccessStatus

DataAccessStatus
DataAccessStatus string
Whether the patient has been asked to grant data access and whether they have done so.

- RequestNotSent – Request not sent yet
- RequestSent – Request sent to the patient
- Reviewed – Patient granted the organisation access to some NHS data
- Declined – Patient declined the data-access request via the decline link. Connect may send a new request unless connectionStatus is DataMismatch or Declined.

Connect issues a data-access request email/link while status is RequestNotSent, RequestSent, or Declined (not after Reviewed).

Enum:

[RequestNotSent, RequestSent, Reviewed, Declined]

oldestNhsRecordDate

string($date)
nullable: true
Date of oldest NHS record received (ISO-8601); null if none

nhsNumber

string
nullable: true
NHS number from NHS Login in ORB (read-only; optional; omitted or null if not on record)

lastInvitationEmailDate

string($date-time)
nullable: true
ISO-8601 date of the last NHS registration invitation email sent

lastAccessRequestEmailDate

string($date-time)
nullable: true
ISO-8601 date of the last data access request email sent

}]

pagination*

PaginationMetadata {

total*

integer
Total number of records

limit*

integer
Number of records requested per page

```
                    offset*                    integer
                                               Number of records skipped

                    hasMore*                   boolean
                                               Whether there are more records
                                               available

                }
}
```

PatientConnectionStatus {

connectionStatus*

ConnectionStatus ConnectionStatus string

Patient's NHS login / connection state.

- InviteNotSent – Invitation not yet sent
- InviteSent – Invitation sent, patient has not logged in via NHS yet
- InviteExpired – Invitation sent but expired
- DataMismatch – NHS login revealed a mismatch between ORB and NHS data
- Connected – Patient completed a valid NHS registration with no mismatches
- Declined – Patient declined the NHS invitation via the decline link (before NHS registration). Calling Connect again can send a new invitation.

Enum:

[InviteNotSent, InviteSent, InviteExpired, DataMismatch, Connected, Declined]

dobMismatch

boolean

True if date of birth mismatch detected (when connectionStatus is DataMismatch)

surnameMismatch

boolean

True if surname mismatch detected (when connectionStatus is DataMismatch)

patientDataAccessLimited

boolean

True if the patient has restricted their data partially or totally

gpDataAccessLimited

boolean

True if the GP has blocked the patient's data partially or totally

dataAccessStatus

DataAccessStatus DataAccessStatus string

Whether the patient has been asked to grant data access and whether they have done so.

- RequestNotSent – Request not sent yet
- RequestSent – Request sent to the patient
- Reviewed – Patient granted the organisation access to some NHS data
- Declined – Patient declined the data-access request via the decline link. Connect may send a new request unless connectionStatus is DataMismatch or Declined.

Connect issues a data-access request email/link while status is RequestNotSent, RequestSent, or Declined (not after Reviewed).

Enum:

[RequestNotSent, RequestSent, Reviewed, Declined]

oldestNhsRecordDate

string($date)

nullable: true

Date of oldest NHS record received (ISO-8601); null if none

lastInvitationEmailDate

string($date-time)

nullable: true

ISO-8601 date of the last NHS registration invitation email sent

lastAccessRequestEmailDate

string($date-time)

nullable: true

ISO-8601 date of the last data access request email sent

}

PatientConnectionStatusResponse ⌄ {

connectionStatus*

ConnectionStatus ⌄ ConnectionStatus string

Patient's NHS login / connection state.

- InviteNotSent – Invitation not yet sent
- InviteSent – Invitation sent, patient has not logged in via NHS yet
- InviteExpired – Invitation sent but expired
- DataMismatch – NHS login revealed a mismatch between ORB and NHS data
- Connected – Patient completed a valid NHS registration with no mismatches
- Declined – Patient declined the NHS invitation via the decline link (before NHS registration). Calling Connect again can send a new invitation.

Enum:

⌄ [InviteNotSent, InviteSent, InviteExpired, DataMismatch, Connected, Declined]

dobMismatch

⌄ boolean

True if date of birth mismatch detected (when connectionStatus is DataMismatch)

surnameMismatch

⌄ boolean

True if surname mismatch detected (when connectionStatus is DataMismatch)

patientDataAccessLimited

⌄ boolean

True if the patient has restricted their data partially or totally

gpDataAccessLimited

⌄ boolean

True if the GP has blocked the patient's data partially or totally

dataAccessStatus

DataAccessStatus ⌄ DataAccessStatus string

Whether the patient has been asked to grant data access and whether they have done so.

- RequestNotSent – Request not sent yet
- RequestSent – Request sent to the patient
- Reviewed – Patient granted the organisation access to some NHS data
- Declined – Patient declined the data-access request via the decline link. Connect may send a new request unless connectionStatus is DataMismatch or Declined.

Connect issues a data-access request email/link while status is RequestNotSent, RequestSent, or Declined (not after Reviewed).

Enum:

⌄ [RequestNotSent, RequestSent, Reviewed, Declined]

oldestNhsRecordDate

⌄ string($date)

nullable: true

Date of oldest NHS record received (ISO-8601); null if none

lastInvitationEmailDate

⌄ string($date-time)

nullable: true

ISO-8601 date of the last NHS registration invitation email sent

lastAccessRequestEmailDate

⌄ string($date-time)

nullable: true

ISO-8601 date of the last data access request email sent

nhsNumber

⌄ string

string
nullable: true
NHS number from the patient's NHS Login record after NHS Login verification (read-only; not supplied on Connect or Update). Omitted or null if the patient has no NHS Login on record.

}

ConnectPatientByEmailRequest {

title*
string
Patient title

firstName*
string
Patient's first name

lastName*
string
Patient's last name

dateOfBirth*
string($date)
Date of birth in YYYY-MM-DD format

sex*
string
Patient sex (e.g. Male, Female)

emailAddress*
string
Patient email address

postcode*
string
Patient postcode

requestingClinicianId*
string
External user ID of the requesting clinician

resend
boolean
True to force resend of an NHS invitation email while connectionStatus is InviteSent. Not used for data-access request reminders.

}

ConnectPatientByLinkRequest ⌄ {

```
    title*
                                ⌄ string
                               Patient title

    firstName*
                                ⌄ string
                               Patient's first name

    lastName*
                                ⌄ string
                               Patient's last name

    dateOfBirth*
                                ⌄ string($date)
                               Date of birth in YYYY-MM-DD format

    sex*
                                ⌄ string
                               Patient sex (e.g. Male, Female)

    emailAddress*
                                ⌄ string
                               Patient email address

    postcode*
                                ⌄ string
                               Patient postcode

    requestingClinicianId*
                                ⌄ string
                               External user ID of the requesting clinician

    resend
                                ⌄ boolean
                               True to force a new NHS invitation link while connectionStatus is
                               InviteSent. Not used for data-access request links.

}
```

ConnectPatientByLinkResponse ⌄ {

invitationLink

⌄ string
nullable: true
URL to the patient invitation that can be shared or displayed

declineInvitationLink

⌄ string
nullable: true
ORB-hosted decline URL for the NHS invitation. Present when invitationLink is returned. If the patient opens it, connectionStatus becomes Declined.

dataAccessRequestLink

⌄ string
nullable: true
URL for the patient to grant data access to the organisation

declineDataAccessRequestLink

⌄ string
nullable: true
ORB-hosted decline URL for the data-access request. Present when dataAccessRequestLink is returned. If the patient opens it, dataAccessStatus becomes Declined.

connectionStatus*

ConnectionStatus ⌄ ConnectionStatus string

Patient's NHS login / connection state.

- InviteNotSent – Invitation not yet sent
- InviteSent – Invitation sent, patient has not logged in via NHS yet
- InviteExpired – Invitation sent but expired
- DataMismatch – NHS login revealed a mismatch between ORB and NHS data
- Connected – Patient completed a valid NHS registration with no mismatches
- Declined – Patient declined the NHS invitation via the decline link (before NHS registration). Calling Connect again can send a new invitation.

Enum:

⌄ [InviteNotSent, InviteSent, InviteExpired, DataMismatch, Connected, Declined]

dobMismatch

⌄ boolean
True if date of birth mismatch detected (when connectionStatus is DataMismatch)

surnameMismatch

⌄ boolean
True if surname mismatch detected (when connectionStatus is DataMismatch)

patientDataAccessLimited

⌄ boolean
True if the patient has restricted their data partially or totally

gpDataAccessLimited

⌄ boolean
True if the GP has blocked the patient's data partially or totally

dataAccessStatus

DataAccessStatus ⌄ DataAccessStatus string

Whether the patient has been asked to grant data access and whether they have done so.

- RequestNotSent – Request not sent yet
- RequestSent – Request sent to the patient
- Reviewed – Patient granted the organisation access to some NHS data
- Declined – Patient declined the data-access request via the decline link. Connect may send a new request

unless connectionStatus is DataMismatch or Declined.

Connect issues a data-access request email/link while status is RequestNotSent, RequestSent, or Declined (not after Reviewed).

Enum:

[RequestNotSent, RequestSent, Reviewed, Declined]

oldestNhsRecordDate

string($date)
nullable: true
Date of oldest NHS record received (ISO-8601); null if none

lastInvitationEmailDate

string($date-time)
nullable: true
ISO-8601 date of the last NHS registration invitation email sent

lastAccessRequestEmailDate

string($date-time)
nullable: true
ISO-8601 date of the last data access request email sent

}

AccessTokenRequest {

extUserId*

string
External user ID (EHR) of the requesting clinician

}

AccessTokenResponse {

accessToken*

string
Short-lived JWT token for accessing patient data (expires in expiresIn seconds)

expiresIn*

integer
example: 900
Token expiration time in seconds (typically 900 = 15 minutes)

}

ContractAccessTokenResponse {

accessToken*

string
Short-lived JWT for the organisation-contract signing iframe only (not the patient records widget). Pass into the iframe via SET_TOKEN / openOrbWidget (see Widget Integration Guide)

expiresIn*

integer
example: 900
Seconds until the token expires from issue time (configured on ORB; typically 900 = 15 minutes). Generate a new token if the iframe session outlives this value

}

```
LinksSentStats ⌄ {
    organizationName*
                                ⌄ string
                               Organisation display name

    extOrganisationKey*
                                ⌄ string
                               EHR organisation ID (same value as extOrganisationId)

    invitationsSent*
                                ⌄ integer
                               Distinct patients sent an NHS invitation

    dataAccessRequestsSent*
                                ⌄ integer
                               Distinct patients sent a data-access request

}
```

```
ConsentGrantedStats ⌄ {
    organizationName*
                                ⌄ string
                               Organisation display name

    extOrganisationKey*
                                ⌄ string
                               EHR organisation ID (same value as extOrganisationId)

    dataAccessRequestsSent*
                                ⌄ integer
                               Distinct patients sent a data-access request

    consentGranted*
                                ⌄ integer
                               Of those, patients with at least one NHS dataset enabled for the
                               organisation

}
```

```
ConsentDeclinedStats ⌄ {
    organizationName*
                                    ⌄ string
                                   Organisation display name

    extOrganisationKey*
                                    ⌄ string
                                   EHR organisation ID (same value as extOrganisationId)

    invitationsSent*
                                    ⌄ integer
                                   Distinct patients sent an NHS invitation

    declinedInvitations*
                                    ⌄ integer
                                   Of those, connectionStatus = Declined

    dataAccessRequestsSent*
                                    ⌄ integer
                                   Distinct patients sent a data-access request

    dataAccessRequestsDeclined*
                                    ⌄ integer
                                   Of those, dataAccessStatus = Declined

}
```

NoResponseStats {

```
organizationName*
                                  string
                                 Organisation display name

extOrganisationKey*
                                  string
                                 EHR organisation ID (same value as extOrganisationId)

invitationsSent*
                                  integer
                                 Distinct patients sent an NHS invitation

noResponseInvitations*
                                  integer
                                 Of those, not Connected and not Declined

dataAccessRequestsSent*
                                  integer
                                 Distinct patients sent a data-access request

noResponseDataAccessRequests*
                                  integer
                                 Of those, not dataAccessStatus = Declined and no NHS
                                 dataset enabled for the organisation

}
```

WidgetTermsStats {

```
organizationName*
                                  string
                                 Organisation display name

extOrganisationKey*
                                  string
                                 EHR organisation ID (same value as extOrganisationId)

signed*
                                  integer
                                 Non-archived users who have accepted widget T&Cs

notSigned*
                                  integer
                                 Non-archived users who have not accepted widget T&Cs (includes
                                 never opened the widget)

clinicianSigned*
                                  integer
                                 Users with isClinician true who have accepted widget T&Cs

clinicianNotSigned*
                                  integer
                                 Users with isClinician true who have not accepted widget T&Cs

locumSigned*
                                  integer
                                 Users with isLocum true who have accepted widget T&Cs

locumNotSigned*
                                  integer
                                 Users with isLocum true who have not accepted widget T&Cs

}
```

```
NhsRecordsViewedUserStats ⌄ {
    extUserId*
                              ⌄ string
                              EHR user ID

    userName*
                              ⌄ string
                              User display name

    isClinician*
                              ⌄ boolean
    isLocum*
                              ⌄ boolean
    patientsViewed*
                              ⌄ integer
                              Distinct patients this user viewed in the clinician widget (0 if
                              none)

}
```

```
NhsRecordsViewedStats ⌄ {
    organizationName*
                              ⌄ string
                              Organisation display name

    extOrganisationKey*
                              ⌄ string
                              EHR organisation ID (same value as extOrganisationId)

    patientsViewed*
                              ⌄ integer
                              Distinct patients viewed at this organisation (not the sum of
                              per-user counts)

    users*
                              ⌄ [NhsRecordsViewedUserStats ⌄ {
                                  extUserId*
                                                        ⌄ string
                                                        EHR user ID

                                  userName*
                                                        ⌄ string
                                                        User display name

                                  isClinician*
                                                        ⌄ boolean
                                  isLocum*
                                                        ⌄ boolean
                                  patientsViewed*
                                                        ⌄ integer
                                                        Distinct patients this user viewed in
                                                        the clinician widget (0 if none)

                                }]
}
```