

Entitlement API Specification

Scenarios

Version

2.01 (July 2020)

Audience

All consumers of the getFTR Entitlement API

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Scenarios

Note, all content URLs shown in responses are purely for example purposes and their structure and format is outside the scope of this specification. They are at the discretion of the Publisher.

For brevity and clarity URLs ending “?..” imply request parameters are expected to support authentication where appropriate (i.e. “Smart Links”)

#1 Entitled + VoR + IP

A single DOI and multiple Org IDs are provided in the request. The IP is matched with a subscribing organisation and is entitled to the VoR.

Request

```
{
  "org": {
    "ipv4": "1.2.3.4",
    "entityID": "https://example.idp.org"
  },
  "dois": [
    "123.abc"
  ]
}
```

Response

```
{
  "entitlements": [
    {
      "doi": "123.abc",
      "statusCode": 200,
      "entitled": "yes",
      "accessType": "paid",
      "org": {
        "ipv4": "1.2.3.4"
      },
      "vor": [
        {
          "contentType": "application/pdf",
          "url": "https://publisher.org/doi/pdf/123.abc"
        },
        {
          "contentType": "text/html",
          "url": "https://publisher.org/doi/full/123.abc"
        }
      ],
      "document": "https://example.publisher.com/doi/abs/123.abc"
    }
  ]
}
```

#2 Entitled + VoR + EntityID

A single DOI and multiple Org IDs are provided in the request. The entityID IP is matched with a subscribing organisation and is entitled to the VoR.

Request

```
{
  "org": {
    "ipv4": "1.2.3.4",
    "entityID": "https://example.idp.org"
  },
  "dois": [
    "123.abc"
  ]
}
```

Response

```
{
  "entitlements": [
    {
      "doi": "123.abc",
      "statusCode": 200,
      "entitled": "yes",
      "accessType": "paid",
      "org": {
        "entityID": "https://idp.example.org"
      },
      "vor": [
        {
          "contentType": "application/pdf",
          "url": "https://publisher.org/doi/pdf/123.abc?.."
        },
        {
          "contentType": "text/html",
          "url": "https://publisher.org/doi/full/123.abc?.."
        }
      ],
      "document": "https://example.publisher.com/doi/abs/123.abc"
    }
  ]
}
```

#3 Maybe Entitled

“Maybe Entitled” scenario can arise when either:

- Authenticating via SAML and the Institution/Department cannot be uniquely identified based on the Org identifiers in the request. Deferred authentication can give rise to this case.
- Authenticating via SAML **or** IP and utilising Metered access, where there is a limited volume of “access tokens”.

A VoR is returned with a “maybe” entitled status:

Request

```
{
  "org": {
    "entityID": "https://example.idp.org"
  },
  "dois": [
    "123.abc"
  ]
}
```


Response

```
{
  "entitlements": [
    {
      "doi": "123.abc",
      "statusCode": 200,
      "entitled": "maybe",
      "accessType": "paid",
      "org": {
        "entityID": "https://idp.example.org"
      },
      "vor": [
        {
          "contentType": "application/pdf",
          "url": "https://publisher.org/doi/pdf/123.abc?.."
        },
        {
          "contentType": "text/html",
          "url": "https://publisher.org/doi/full/123.abc?.."
        }
      ],
      "document": "https://example.publisher.com/doi/abs/123.abc"
    }
  ]
}
```

#4 Entitled + SAML attributes

The Organisation can now be uniquely identified as additional SAML attributes have been provided. The entityID and attribute combination uniquely matches a subscribing organisation and is entitled to the VoR. This pattern applies to “eduPersonScopedAffiliation” as well.

Request

```
{
  "org": {
    "entityID": "https://example.idp.org",
    "openAthensOrgID": "999"
  },
  "dois": [
    "123.abc"
  ]
}
```

Response

```
{
  "entitlements": [
    {
      "doi": "123.abc",
      "statusCode": 200,
      "entitled": "yes",
      "accessType": "paid",
      "org": {
        "entityID": "https://idp.example.org",
        "openAthensOrgID": "999"
      },
      "vor": [
        {
          "contentType": "application/pdf",
          "url": "https://publisher.org/doi/pdf/123.abc?.."
        },
        {
          "contentType": "text/html",
          "url": "https://publisher.org/doi/full/123.abc?.."
        }
      ],
      "document": "https://example.publisher.com/doi/abs/123.abc"
    }
  ]
}
```

#5 Open Access / Free

A single DOI and multiple Organisation identifiers are provided in the request. The document is Open Access / Free therefore none of the Organisation identifiers are required to establish entitlement, and are not returned. Anyone is entitled to the VoR.

Request

```
{
  "org": {
    "ipv4": "1.2.3.4",
    "entityID": "https://example.idp.org"
  },
  "dois": [
    "123.abc"
  ]
}
```

Response

```
{
  "entitlements": [
    {
      "doi": "123.abc",
      "statusCode": 200,
      "entitled": "yes",
      "accessType": "open",
      "vor": [
        {
          "contentType": "application/pdf",
          "url": "https://publisher.org/doi/pdf/123.abc"
        },
        {
          "contentType": "text/html",
          "url": "https://publisher.org/doi/full/123.abc"
        }
      ],
      "document": "https://example.publisher.com/doi/abs/123.abc"
    }
  ]
}
```

#6 Entitled + Non authenticating Org ID

A single DOI and a non-authenticating Org ID is provided (e.g. Ringgold, GRID, Ror). The Organisation can be mapped to an entityID and access provided to the VoR.

Request

```
{
  "org": {
    "ringgoldID": "777"
  },
  "dois": [
    "123.abc"
  ]
}
```

This scenario is to future proof the API specification, ready for when alternative institutional IDs are broadly adopted across the GetFTR participants.

Response

```
{
  "entitlements": [
    {
      "doi": "123.abc",
      "statusCode": 200,
      "entitled": "yes",
      "accessType": "paid",
      "org": {
        "ringgoldID": "777"
      },
      "vor": [
        {
          "contentType": "application/pdf",
          "url": "https://publisher.org/doi/pdf/123.abc?.."
        },
        {
          "contentType": "text/html",
          "url": "https://publisher.org/doi/full/123.abc?.."
        }
      ],
      "document": "https://example.publisher.com/doi/abs/123.abc"
    }
  ]
}
```

#7 Unentitled + Known Org + AV

A single DOI and multiple Org IDs are provided in the request. The entityID is matched to a subscribing institution, the organisation is not entitled to the VoR but is granted an Alternate Version (Publisher discretion).

Request

```
{
  "org": {
    "ipv4": "1.2.3.4",
    "entityID": "https://example.idp.org"
  },
  "dois": [
    "123.abc"
  ]
}
```


Response

```
{
  "entitlements": [
    {
      "doi": "123.abc",
      "statusCode": 200,
      "entitled": "no",
      "org": {
        "entityID": "https://idp.example.org"
      },
      "av": [
        {
          "contentType": "application/epub+zip",
          "url": "https://publisher.org/doi/av/123.abc?.."
        }
      ],
      "document": "https://example.publisher.com/doi/abs/123.abc"
    }
  ]
}
```

#8 Untitled + Known Org + No AV

A single DOI and multiple Org IDs are provided in the request. The entityID is matched to a subscribing institution, the organisation is not entitled to the VoR and is either not granted an Alternate Version or one is not available (Publisher discretion).

Request

```
{
  "org": {
    "ipv4": "1.2.3.4",
    "entityID": "https://example.idp.org"
  },
  "dois": [
    "123.abc"
  ]
}
```

Response

```
{
  "entitlements": [
    {
      "doi": "123.abc",
      "statusCode": 200,
      "entitled": "no",
      "org": {
        "entityID": "https://idp.example.org"
      },
      "document": "https://example.publisher.com/doi/abs/123.abc"
    }
  ]
}
```

#9 Unentitled + Known Org

A single DOI and multiple Org IDs are provided in the request. The entityID was matched to a subscribing institution, therefore it is returned in the response. But, the Organisation isn't entitled to the document.

Request

```
{
  "org": {
    "ipv4": "1.2.3.4",
    "entityID": "https://example.idp.org"
  },
  "dois": [
    "123.abc"
  ]
}
```

Response

```
{
  "entitlements": [
    {
      "doi": "123.abc",
      "statusCode": 200,
      "entitled": "no",
      "org": {
        "entityID": "https://idp.example.org"
      },
      "document": "https://example.publisher.com/doi/abs/123.abc"
    }
  ]
}
```

It is at the discretion of the Publisher to return an Alternate Version in this scenario.

#10 Unentitled + Unknown Org

A single DOI and multiple Org IDs are provided in the request. None of the identifiers can be matched to a subscribing organisation or entitlement, therefore unentitled and “org” is not in the response.

Request

```
{
  "org": {
    "ipv4": "1.2.3.4",
    "entityID": "https://example.idp.org"
  },
  "dois": [
    "123.abc"
  ]
}
```

Response

```
{
  "entitlements": [
    {
      "doi": "123.abc",
      "statusCode": 200,
      "entitled": "no",
      "document": "https://example.publisher.com/doi/abs/123.abc"
    }
  ]
}
```

It is at the discretion of the Publisher to return an Alternate Version in this scenario.

#11 Non 200 status codes

Request

A number of scenarios can arise where a non 200 response can be returned in the response body. For example an unknown DOI.

```
{
  "org": {
    "ipv4": "1.2.3.4",
    "entityID": "https://example.idp.org"
  },
  "dois": [
    "999.bad"
  ]
}
```

Response

All responses with a non 200 will look like:

```
{
  "entitlements": [
    {
      "doi": "...",
      "statusCode": ...
    }
  ]
}
```

For an exhaustive list of statusCodes refer to the API specification appendix.