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# Capacity Status API  0.0.1

[ Base URL: localhost:8000/api/v0.0.1/capacity ]

This is the Capacity Status API.

The API will enable UEC service providers and DoS Leads to change the Capacity Status (also known as the RAG Status) of their active services in DoS by means of a collection of restful endpoints that can be called from third party systems.
Upon successful retrieval or update of capacity information, this API will respond with the current (updated) capacity information for the active service. All required fields will be returned, but optional fields will not be returned in the cases where no data is present for them. For example, if there is no reset date/time for an active service (in the case where the active service is in a GREEN capacity state) the reset date/time field will not be included in the response. Refer to the endpoint specifications below for API response details.
All endpoints of this API require that the UID of the service to retrieve/update is given in the URL. If no such active service can be found in DoS for the given UID an HTTP-404 error code will be returned.
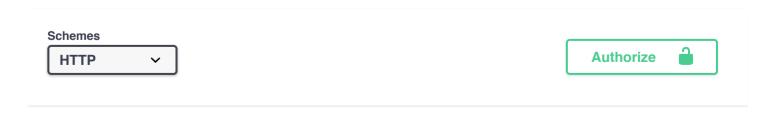
**API Authentication**

The API is protected by means of an API Key authentication mechanism. Clients interested in using the API will need to obtain an API Key from NHSD, and this key will need to be sent through as part of the request in the call to the API endpoints.
As part of the API Key creation process, clients will be required to specify a valid and active DoS user account (username) that the API Key will be associated with. This will be used for the API's authorisation process.

**API Authorisation**

The endpoints provided by this API that update service capacity information are additionally protected by an authorisation mechanism which confirms that the DoS user (associated with the API Key) has the correct permissions configured in DoS to be able to update the target service. In the event that a DoS User does not have permissions to update the capacity status of a service, an HTTP-403 error code will be returned and the capacity status information of the service will not be updated.

**Schemes**

HTTP ⌄                          Authorize 🔒

## services                                          ⌄

GET   /services/{service__uid}/capacitystatus/                    🔒

This endpoint will return capacity status information for the service specified for an authenticated user.

**Business Logic**

Upon processing a successful request, the API will return a success response containing the capacity status information of the given service.
Requests that fail to be processed due to an error or failure will return an error response. The format of the responses are defined below.

## Parameters

Try it out

| Name | Description |
|------|-------------|
| service__uid * required<br>string<br>(path) | The service UID identifying the service to retrieve/update its capacity status information.<br><br>service__uid - The service UID identifying the service to retrie |

## Responses

Response content type  application/json

| Code | Description |
|------|-------------|

**200**

Example Value | Model

```
{
  "serviceUid": 0,
  "serviceName": "string",
  "capacityStatus": "string",
  "resetDateTime": "2020-03-10T13:55:37.580Z",
  "notes": "string",
  "modifiedBy": "string",
  "modifiedDate": "2020-03-10T13:55:37.580Z"
}
```

**401**

Unauthorized - when a user is either no longer active in DoS or is not authenticated to use this API. An authentication error response would look like:

```
{
    "detail": "Authentication credentials were not provided."
}
```

**404**

Not Found - when the requested service is either not active or could not be found in DoS.

| PUT | `/services/{service__uid}/capacitystatus/` | 🔓 |
|-----|--------------------------------------------|----|

This endpoint will update the capacity (RAG) status of a single service in DoS as specified in the request body JSON payload. The format of the JSON payload is described further down in this document.

### Business Logic

Upon processing a successful request, the API will return a success response containing the capacity status information for the given service and will update DoS with the following information:

- **Capacity status** - the capacity status of the service that is updated to the capacity status given in the request payload. The capacity status can be set to Red, Amber, or Green.
- **Reset time** - the date and time when the service will automatically transition back to a Green capacity status having been set to either Amber or Red by the request. The reset time will be set to the date and time when the capacity status is updated (or maintained) plus the amount of time in minutes as defined by the resetStatusIn value given in the request payload. If this value is not provided, the reset time will default to 4 hours from the time the capacity status is updated. A capacity status change to Red or Amber for a service can be set to persist for a maximum period of 24 hours per request before automatically being reset back to Green. This means that if a service needs to be Red or Amber for over 24 hours, multiple requests through this API for that service will be required.
- **Notes** - a free text field providing the opportunity for any additional notes to be logged regarding the capacity status change. Notes given in the request payload will be appended to the text: Capacity status set by the Capacity Service API -.
- **Last updated date/time** - a timestamp of when the service was updated by the API.
- **Modified by** - the name of the DoS User (associated with the API key) who last updated the capacity information of the service.

Requests that fail the request validation rules will not be processed and will return a validation error response (see below for the validation rules).

Requests that fail to be processed due to an error or failure will return an error response. The format of the responses are defined below

### Request Validation

Values specified in the request payload will be validated by the API. The following business validation rules are in place:

- **VAL-0001** - A Capacity Status (capacityStatus) has not been given - returned when no Capacity Status is given.
- **VAL-0002** - Invalid CapacityStatus value - returned when a capacity status other than that defined by the CapacityStatusRequestPayload model is given.
- **VAL-0003** - Invalid ResetStatusIn value - returned when a reset time other than that defined by the CapacityStatusRequestPayload model is given.
- **VAL-0004** - ResetStatusIn outside of limits - returned when the reset time given is outside of the minimum or maximum limits defined by the CapacityStatusRequestPayload model.
- **VAL-0005** - Notes outside of limits - returned when the notes given are outside of the maximum limit defined by the CapacityStatusRequestPayload model.

### Response Formats

Please refer to the Response section of this document for the response formats.

**Parameters**                                                          | **Try it out** |

| Name | Description |
| --- | --- |

**data** * required

object

*(body)*

**Example Value** | Model

```
{
  "capacityStatus": "RED",
  "notes": "string",
  "resetStatusIn": 0
}
```

**Parameter content type**

application/json ⌄

**service__uid** * required

string

*(path)*

The service UID identifying the service to retrieve/update its capacity status information.

service__uid - The service UID identifying the service to retrie

**Responses**                          **Response content type**   application/json ⌄

| Code | Description |
| --- | --- |

200

**Example Value** | Model

```
{
  "serviceUid": 0,
  "serviceName": "string",
  "capacityStatus": "string",
  "resetDateTime": "2020-03-10T13:55:37.592Z",
  "notes": "string",
  "modifiedBy": "string",
  "modifiedDate": "2020-03-10T13:55:37.592Z"
}
```

400

Bad Request - when the request fails one or more validation rules specified by the API. Validation errors are grouped together by request payload field. An example validation error response for an invalid capacity status and reset status in value would therefore look like:

```
{
    "capacityStatus": [
        "VAL-0002 - The given CapacityStatus value is invalid and must be a
value as defined by the CapacityStatusRequestPayload model."
    ],
    "resetStatusIn": [
        "VAL-0004 - ResetStatusIn outside of limits - the reset time given is
outside the minimum limit (0 minutes) defined by the
CapacityStatusRequestPayload model."
    ]
}
```

| Code | Description |
|------|-------------|
| 401 | Unauthorized - when a user is either no longer active in DoS or is not authenticated to use this API. An authentication error response would look like: <br><br> `{`<br>    `"detail": "Authentication credentials were not provided."`<br>`}` |
| 403 | Forbidden - when a user does not have permissions to update capacity information for the requested service. |
| 404 | Not Found - when the requested service to update is either not active, or could not be found in DoS. |
| 500 | Internal Server Error - when an unexpected error is encountered whilst processing the request. |

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**PATCH**   `/services/{service__uid}/capacitystatus/`   🔓

This endpoint will update the capacity (RAG) status of a single service in DoS as specified in the request body JSON payload. The format of the JSON payload is described further down in this document.

**Business Logic**

Upon processing a successful request, the API will return a success response containing the capacity status information for the given service and will update DoS with the following information:

- **Capacity status** - the capacity status of the service that is updated to the capacity status given in the request payload. The capacity status can be set to Red, Amber, or Green.
- **Reset time** - the date and time when the service will automatically transition back to a Green capacity status having been set to either Amber or Red by the request. The reset time will be set to the date and time when the capacity status is updated (or maintained) plus the amount of time in minutes as defined by the resetStatusIn value given in the request payload. If this value is not provided, the reset time will default to 4 hours from the time the capacity status is updated. A capacity status change to Red or Amber for a service can be set to persist for a maximum period of 24 hours per request before automatically being reset back to Green. This means that if a service needs to be Red or Amber for over 24 hours, multiple requests through this API for that service will be required.
- **Notes** - a free text field providing the opportunity for any additional notes to be logged regarding the capacity status change. Notes given in the request payload will be appended to the text: Capacity status set by the Capacity Service API -.
- **Last updated date/time** - a timestamp of when the service was updated by the API.
- **Modified by** - the name of the DoS User (associated with the API key) who last updated the capacity information of the service.

Requests that fail the request validation rules will not be processed and will return a validation error response (see below for the validation rules).

Requests that fail to be processed due to an error or failure will return an error response. The format of the responses are defined below
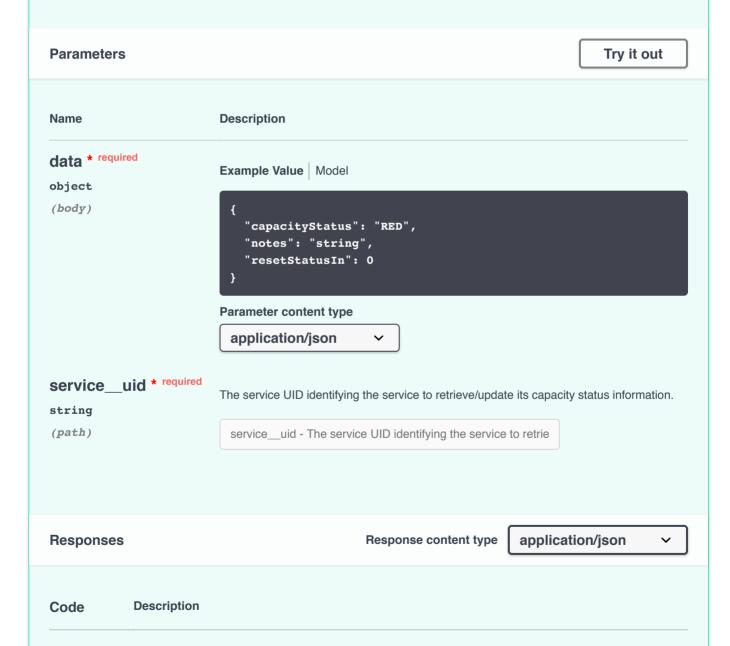
**Request Validation**

Values specified in the request payload will be validated by the API. The following business validation rules are in place:

- **VAL-0001** - A Capacity Status (capacityStatus) has not been given - returned when no Capacity Status is given.
- **VAL-0002** - Invalid CapacityStatus value - returned when a capacity status other than that defined by the CapacityStatusRequestPayload model is given.
- **VAL-0003** - Invalid ResetStatusIn value - returned when a reset time other than that defined by the CapacityStatusRequestPayload model is given.
- **VAL-0004** - ResetStatusIn outside of limits - returned when the reset time given is outside of the minimum or maximum limits defined by the CapacityStatusRequestPayload model.
- **VAL-0005** - Notes outside of limits - returned when the notes given are outside of the maximum limit defined by the CapacityStatusRequestPayload model.

**Response Formats**

Please refer to the Response section of this document for the response formats.

## Parameters

Try it out

| Name | Description |
|---|---|
| **data** * required<br>**object**<br>*(body)* | **Example Value** \| Model<br><br>```{<br>  "capacityStatus": "RED",<br>  "notes": "string",<br>  "resetStatusIn": 0<br>}```<br><br>**Parameter content type**<br>application/json ⌄ |
| **service__uid** * required<br>**string**<br>*(path)* | The service UID identifying the service to retrieve/update its capacity status information.<br><br>service__uid - The service UID identifying the service to retrie |

## Responses

Response content type    application/json ⌄

| Code | Description |
|---|---|

| Code | Description | ∨ |
|------|-------------|---|
| 200  | **Example Value** \| Model | |

```
{
  "serviceUid": 0,
  "serviceName": "string",
  "capacityStatus": "string",
  "resetDateTime": "2020-03-10T13:55:37.602Z",
  "notes": "string",
  "modifiedBy": "string",
  "modifiedDate": "2020-03-10T13:55:37.602Z"
}
```

**400**

Bad Request - when the request fails one or more validation rules specified by the API. Validation errors are grouped together by request payload field. An example validation error response for an invalid capacity status and reset status in value would therefore look like:

```
{
    "capacityStatus": [
        "VAL-0002 - The given CapacityStatus value is invalid and must be a
value as defined by the CapacityStatusRequestPayload model."
    ],
    "resetStatusIn": [
        "VAL-0004 - ResetStatusIn outside of limits - the reset time given is
outside the minimum limit (0 minutes) defined by the
CapacityStatusRequestPayload model."
    ]
}
```

**401**

Unauthorized - when a user is either no longer active in DoS or is not authenticated to use this API. An authentication error response would look like:

```
{
    "detail": "Authentication credentials were not provided."
}
```

**403**

Forbidden - when a user does not have permissions to update capacity information for the requested service.

**404**

Not Found - when the requested service to update is either not active, or could not be found in DoS.

**500**

Internal Server Error - when an unexpected error is encountered whilst processing the request.

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## Models                                                                    ∨

↩

## CapacityStatusResponse ⌄ {

    **serviceUid\***               **integer**
                                     *title: Serviceuid*

                                     **The UID identifier of the service.**

    **serviceName\***            **string**
                                       *title: Servicename*
                                     *minLength: 1*

                                     **The name of the service.**

    **capacityStatus\***       **string**
                                       *title: Capacitystatus*
                                     *minLength: 1*

                                     **The current capacity status of the service.**

    **resetDateTime**           **string**($date-time)
                                     *title: Resetdatetime*

                                     **The time when the capacity status will automatically revert back to a GREEN state if the current capacity status is anything other than GREEN.**

    **notes**                    **string**
                                       *title: Notes*
                                     *minLength: 1*

                                     **Notes associated with the capacity status of the service.**

    **modifiedBy**                **string**
                                     *title: Modifiedby*
                                     *minLength: 1*

                                     **The user who last updated the capacity status of the service.**

    **modifiedDate**           **string**($date-time)
                                     *title: Modifieddate*

                                     **The date and time of when the capacity status of the service was last updated.**

}

↩

## CapacityStatusRequestPayload ⌄ {

**capacityStatus\***      **string**
*title: Capacitystatus*

**The capacity status (RAG status) to set the service to.
This value is not case sensitive.**

**Enum:**

> **Array [ 3 ]**

**notes**      **string**
*title: Notes*
*default: Capacity status set by Capacity Status API*
*maxLength: 900*
*minLength: 1*

**Optional field of up to 900 characters to add ad-hoc notes
to this status update action. Any notes provided will be
appended to the end of the default notes set by the API,
e.g. Capacity status set by the Capacity Status API –
additional notes here.**

**resetStatusIn**      **integer**
*title: Resetstatusin*
*default: 240*
*maximum: 1440*
*minimum: 0*

**The amount of time, specified in 1 minute blocks up to and
including 24 hours (1440 minutes), from the time the
capacity status is updated by the request to reset the
capacity status of the service back to GREEN. If no value
or 0 is provided, the reset time will default to 4 hours
(240 minutes).**

}