Ultimo REST connector Reservations

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ULTIMO

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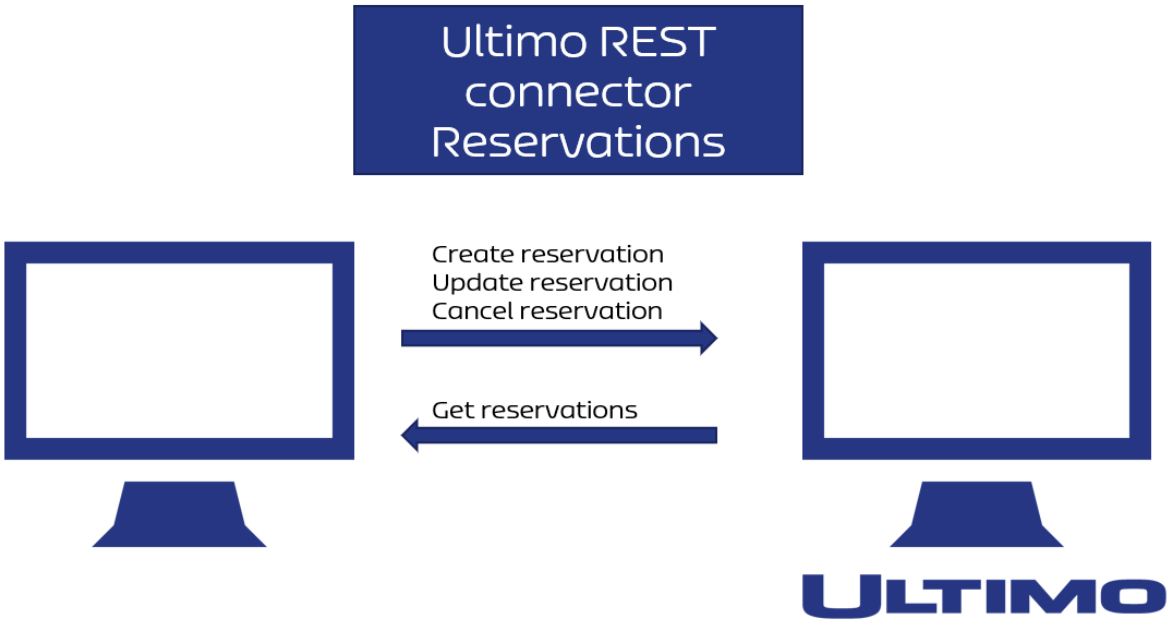
1 Functional details

There are basically two flows in the connector. One flow sends data to Ultimo and one flow gets data from Ultimo. Ultimo always acts as a server in this regard. The flows are depicted below:



1.1 Create reservation

This workflow allows third parties to send a new reservation for a specific room with specified times.

The following parameters are used in the request. These are all required.

ExternalId	This is the Id used for the reservation in the system of the third party.
Description	The description of the reservation for the room.
SpaceId	This is the internal Ultimo Id of a room/space (entity).
StartTime	The start time (datetime) of reservation. Allowed formats: - yyyy-MM-dd hh:mm:ss (i.e. 2018-08-21 15:21:59) - UTC: yyyy-MM-ddThh:mm:ssZ (i.e. 2018-08-20T15:17:59Z)
EndTime	The end time (datetime) of reservation. Allowed formats: - yyyy-MM-dd hh:mm:ss (i.e. 2018-08-21 15:21:59) - UTC: yyyy-MM-ddThh:mm:ssZ (i.e. 2018-08-20T15:17:59Z)
ApplicantId	The Id from the applicant of the reservation (entity employee in Ultimo).

When these parameters are properly filled in, Ultimo will give a HTTP 200 response with the following properties:

UltimoId	The internal Ultimo Id of a reservation for the room (ReservationLine Id).

1.2 Update reservation

This workflow allows third parties to update an existing reservation for a specific room with specified times.

The following parameters are used in the request. These are all required.

UltimoId	The internal Ultimo Id of a reservation for the room (ReservationLine Id).
StartTime	The start time (datetime) of reservation. Allowed formats: - yyyy-MM-dd hh:mm:ss (i.e. 2018-08-21 15:21:59) - UTC: yyyy-MM-ddThh:mm:ssZ (i.e. 2018-08-20T15:17:59Z)
EndTime	The end time (datetime) of reservation. Allowed formats: - yyyy-MM-dd hh:mm:ss (i.e. 2018-08-21 15:21:59) - UTC: yyyy-MM-ddThh:mm:ssZ (i.e. 2018-08-20T15:17:59Z)

1.3 Cancel reservation

This workflow allows third parties to cancel an existing reservation for a specific room with specified times.

The following required parameter is used in the request.

UltimoId	The internal Ultimo Id of a reservation for the room.

1.4 Get reservations

This workflow allows third parties to get reservations for a specific room during a specified timespan from Ultimo.

The following parameters are used in the request. These are all required.

SpaceId	This is the internal Ultimo Id of a room/space (entity).
From	The start time (datetime) of the specified timespan. Allowed formats: - yyyy-MM-dd hh:mm:ss (i.e. 2018-08-21 15:21:59) - UTC: yyyy-MM-ddThh:mm:ssZ (i.e. 2018-08-20T15:17:59Z)
Till	The end time (datetime) of the specified timespan. The allowed formats are the same as the ones specified above.

When these parameters are properly filled in, Ultimo will give a HTTP 200 response with the following properties:

UltimoId	The internal Ultimo Id of a reservation for the room (ReservationLine Id).
Description	The description of the reservation for the room.
ApplicantId	The Id from the applicant of the reservation.
ApplicantName	The name of the applicant of the reservation.
StartTime	The start time of the reservation for the room.
EndTime	The end time of the reservation for the room.
StartTimeIncludingPreparationTime	The start time including the preparation time for the room.
EndTimeIncludingCleanupTime	The end time including the cleanup time for the room.
Status	The status of the reservation.

2 Technical details

2.1 Create reservation

Basic URL (POST):

https://customer.ultimo.com/api/V1/Action/REST_CreateReservation

Header data:

ApiKey	Request an API key at (application manager or consultant)
ApplicationElementId	Fixed value "0167a94a-5dae-4efe-bf13-029a47728b97"

Body (example):

```
{
      "ExternalId": "DEMO01",
      "Description": "Team meeting Front office",
      "SpaceId": "C-25",
      "StartTime": "2021-06-14 12:00:00",
      "EndTime": "2021-06-14 13:00:00",
      "Applicant": "ULTIMO"
}
```

Normal response:

Status: 200 OK

```
{
    "properties": {
        "UltimoId": "00000006712"
    }
}
```

Response when the action is not allowed:

```
Status: 400 Bad Request
```


```
{
    "message": "Room reservation cannot be requested or processed.\r\nCause: Meeting room 2 is not available.",
    "type": 3,
    "code": "1015"
}
```


In this case it is not allowed to make a reservation for a room that already has a reservation at the specified time. Ultimo will not process this action.

Response when the API-key is invalid:

```
Status: 401 Unauthorized
```


```
{
    "message": "Missing API key",
    "code": "MissingApiKey"
}
```

2.2 Update reservation

Basic URL (POST):

https://customer.ultimo.com/api/V1/Action/REST_UpdateReservation

Header data:

ApiKey	Request an API key at (application manager or consultant)
ApplicationElementId	Fixed value "3736d834-fa5e-4edc-9abd-f38962ff8afd"

Body (example):

```
{
      "UltimoId": "00000006712",
      "StartTime": "2020-06-14 12:00:00",
      "EndTime": "2020-06-14 13:30:00"
}
```

Normal response:

Status: 200 OK

```
{
    "properties": {}
}
```

Responses when the action is not allowed:

Status: 400 Bad Request


```
{
    "message": "Room reservation cannot be requested or processed.\r\nCause: Meeting room 2 is not available.",
    "type": 3,
    "code": "1015"
}
```


In this case it is not allowed to make a reservation for a room that already has a reservation at the specified time. Ultimo will not process this action.

Status: 400 Bad Request


```
{
    "message": "Room reservation cannot be modified.\r\nCause: Room reservation is in the past.",
    "type": 3,
    "code": "1166"
}
```


In this case it is not allowed to modify a room reservation that lies in the past. Ultimo will not process this action.

Response when the API-key is invalid:

Status: 401 Unauthorized


```
{
    "message": "Missing API key",
    "code": "MissingApiKey"
}
```

2.3 Cancel reservation

Basic URL (POST):

`https://customer.ultimo.com/api/V1/Action/REST_CancelReservation`

Header data:

ApiKey	Request an API key at (application manager or consultant)
ApplicationElementId	Fixed value "5d5a10ee-7b14-4dd4-8683-33822ea56f12"

Body (example):

```
{
    "UltimoId": "00000006712"
}
```

Normal response:

Status: 200 OK

```
{
    "properties": {}
}
```

Response when the API-key is invalid:

Status: 401 Unauthorized

```
{
    "message": "Missing API key",
    "code": "MissingApiKey"
}
```

2.4 Get reservations

Basic URL (POST):

`https://customer.ultimo.com/api/V1/Action/REST_GetReservationsForSpace`

Header data:

ApiKey	Request an API key at (application manager or consultant)
ApplicationElementId	Fixed value "860ea091-4d76-47d9-a733-c3bb18440dde"

Body (example):

```
{
    "From": "2020-03-10 08:00:00",
    "Till": "2020-03-10 17:00:00",
    "SpaceId": "C-25"
}
```

Normal response:

`Status: 200 OK`


```
{
    "properties": {
        "Output": {
            "collection": [
                {
                    "UltimoId": "00000006711",
                    "Description": "Team meeting Front office",
                    "ApplicantId": "ULTIMO",
                    "ApplicantName": "Fasse, J.",
                    "StartTime": "2020-03-10T09:00:00.000000+01:00",
                    "EndTime": "2020-03-10T10:30:00.000000+01:00",
                    "StartTimeIncludingPreparationTime": "2020-03-10T08:50:00.000000+01:00",
                    "EndTimeIncludingCleanupTime": "2020-03-10T10:40:00.000000+01:00",
                    "Status": "Processed"
                }
            ]
        }
    }
}
```


Response when the API-key is invalid:

`Status: 401 Unauthorized`

```
{
    "message": "Missing API key",
    "code": "MissingApiKey"
}
```

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