Creating webhook subscriptions

EduMS implements webhooks that provide valuable information about changes in data, e.g. in orders and their statuses. These webhooks can be subscribed to, in order to receive these notifications.

Subscribing to these webhook events is very easy:

1. Determine which webhook you want to subscribe to. Pay attention to both its resource and action, which ultimately define exactly what resource you'll get notifications about and for what operations (e.g. if to be notified about order changes, pick the webhook with resource "orders" and action "modified").
   For this, the **GET webhooks endpoint** should be used, which can be found on the EduMS Developer Portal.
2. To subscribe to webhooks, the POST webhook subscription endpoint should be used.
   The following properties need to be specified on the request payload:

Property name	Notes
webhookId	The ID of the webhook chosen on step 1.
clientId	The client ID used to acquire the token needed to access these endpoints.
callbackUrl	The URL that should be used to send the notification to. This endpoint should be implement the POST action.
sharedSecret	Any secret string. This will allow callback receivers to validate the authenticity of every notification.
accountReference	The account reference that should be used to filter the notifications that are sent (e.g. if specified, only notifications for the specified account will be sent). **Check the table below for applicability.**
providerReference	The provider reference that should be used to filter the notifications that are sent (e.g. if specified, only notifications for the specified provider will be sent). **Check the table below for applicability.**

Because specifying account and/or provider references are not applicable for every available webhook, the table below depicts which webhook supports each of the filters. Wherever supported, both filters can be specified.

Resource	Action	AccountReference	ProviderReference
assorted-products	Created	✅	❌
	Modified	✅	❌
	Deleted	✅	❌
educational-fulfillments	Created	✅	✅
	Modified	✅	✅
orders	Modified	✅	✅
order-status-transitions	Created	✅	✅

The webhook callback security is calculated with the following formula: Base64Encoded(SHA256(dateNotification + action + urlReference + nonce + sharedSecret)).

The sharedSecret is not returned in the response while the other properties are, the following is an example of a callback:

```
{
    "webhookSubscriptionId": "c27dc171-471e-4cf9-99bc-8d2e521a213e",
    "resource": "assorted-products",
    "action": "Created",
    "dateNotification": "2021-03-12T06:04:13.4299091Z",
    "urlReference": "https://api-edums-nl-tst.evi.cloud/account/v1
/assorted-products/55e1d8e1-5cd7-43ae-b89c-3f94749cd26c",
    "eventData": {
        "productReference": "course:2b9e3315-5b8d-413b-81f3-
c9212df2a6e4",
        "accountId": "73f677af-2626-447b-8b98-fa0f8b9b02d1",
        "assortmentId": "696065c0-a5b6-463a-96a0-9e7d6cdadc57",
        "id": "55e1d8e1-5cd7-43ae-b89c-3f94749cd26c"
    },
    "modifiedFields": null,
    "webhookCallbackSecurity": {
        "nonce": "2891881e-1ea6-46b5-8e76-71d91e43439c",
        "hash": "ciRIvZRTiEee2+q/oxJtHQR11TE76OuHtSvxphbavpU="
    }
}
```