

EN - Web API v7 Implementation Documentation Overview

Web API v7 Implementation Documentation

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1. Introduction

Software Overview

Web API version 7 represents a newly designed online application that enables automated retrieval and submission of product specifications. This version introduces important improvements and new functionalities:

- Support for both XML and JSON formats
- Enhanced performance and scalability
- Extensive validation capabilities
- Optimized data exchange

Target Audience

This documentation is specifically compiled for:

- Producers and wholesalers who want to implement the API
- Customers who need automated access to product information
- Technical teams responsible for integration
- Developers who will implement the API

2. Installation Guide

System Requirements

The following minimum requirements apply for using the Web API:

- A reliable and stable internet connection
- Knowledge of endpoints and authentication handling
- Access to the specific URL or network address
- Valid authentication credentials

Basic Settings

1. Obtain access to the API environment via PS
 2. Configure authentication credentials
 3. Test basic endpoints
 4. Implement error handling
-

3. Getting Started - Your First API Call

This section guides you step-by-step through the process of your first API call, from authentication to retrieving a product. Ideal for developers who want to get started immediately.

What Do You Need?

Before you begin, make sure you have the following:

- **API Base URL:** `<https://webapi.psinfoodservice.com>`
- **Username:** Received from PS in Foodservice
- **Password:** Received from PS in Foodservice
- **Product ID:** A valid product sheet ID (psId) to which you have access
- **HTTP client:** cURL, Postman, or programming code in your favorite language

Step 1: Login and Obtain Token

To use the API, you first need a JWT token. You use this token for all subsequent API calls.

Endpoint

```
1 POST https://webapi.psinfoodservice.com/v7/json/account/login
```

Request Headers

```
1 Content-Type: application/json
```

Request Body

```
1 {
2   "username": "your_username",
3   "password": "your_password"
4 }
```

Response Success - 200 OK

```
1 {
2   "accesstoken": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...",
3   "refreshToken": "a8d9f7e6c5b4a3d2e1f0...",
4   "expiresin": 3600
5 }
```

Important:

- The `accesstoken` is valid for the number of seconds indicated in `expiresin` (default 3600 seconds = 1 hour)
- Store the `refreshToken` securely - you can use it to request a new accesstoken without logging in again
- NEVER store tokens in source code or public repositories

Step 2: Retrieve Product with Token

Now that you have a token, you can retrieve product information.

Endpoint

```
1 GET https://webapi.psinfoodservice.com/v7/json/productsheet/{psId}
```

or with specific language:

```
1 GET
  https://webapi.psinfoodservice.com/v7/json/productsheet/{language}/{psId}
```

Parameters:

- `{psId}` : Product ID (for example: 1234567)
- `{language}` : (optional) Language code: `nl`, `en`, `de`, or `fr`

Request Headers

```
1 Authorization: Bearer {your_accesstoken}
2 Content-Type: application/json
```

Response Success - 200 OK

```
1 {
2   "logistic": {
3     "psId": 1234567,
4     "gtince": "8712345678901",
5     "gtinhe": "18712345678908",
6     "productName": "Example Product"
7   },
8   "product": {
9     "articleNumber": "ART12345",
10    "brand": "Example Brand"
11  },
12  "specification": {
13  }
14 }
```

Complete Examples in Different Languages

cURL (Command Line)

Step 1: Login

```
1 curl -X POST https://webapi.psinfoodservice.com/v7/json/account/login \
2   -H "Content-Type: application/json" \
3   -d '{
4     "username": "your_username",
5     "password": "your_password"
6   }'
```

Step 2: Retrieve product

```
1 curl -X GET
  https://webapi.psinfoodservice.com/v7/json/productsheet/1234567 \
2   -H "Authorization: Bearer {TOKEN}" \
3   -H "Content-Type: application/json"
```

C# (.NET 6+)

```
1 using System;
2 using System.Net.Http;
3 using System.Net.Http.Headers;
4 using System.Net.Http.Json;
5 using System.Threading.Tasks;
6
7 public class Program
8 {
9     private static readonly HttpClient client = new HttpClient();
10    private const string BaseUrl =
11    "https://webapi.psinfoodservice.com/v7/json";
12
13    public static async Task Main(string[] args)
14    {
15        try
16        {
17            var loginData = new
18            {
19                username = "your_username",
20                password = "your_password"
21            };
22
23            var loginResponse = await client.PostAsJsonAsync(
24                $"{BaseUrl}/account/login",
25                loginData
```

```

25     );
26
27     loginResponse.EnsureSuccessStatusCode();
28
29     var tokenResponse = await
loginResponse.Content.ReadFromJsonAsync<TokenResponse>();
30     Console.WriteLine($"Token obtained, valid for
{tokenResponse.ExpiresIn} seconds");
31
32     client.DefaultRequestHeaders.Authorization =
33     new AuthenticationHeaderValue("Bearer",
tokenResponse.AccessToken);
34
35     int productId = 1234567;
36     var productResponse = await client.GetAsync(
37     $"{BaseUrl}/productsheet/{productId}"
38     );
39
40     productResponse.EnsureSuccessStatusCode();
41
42     var productSheet = await
productResponse.Content.ReadAsStringAsync();
43     Console.WriteLine("Product retrieved:");
44     Console.WriteLine(productSheet);
45 }
46 catch (HttpRequestException e)
47 {
48     Console.WriteLine($"Request error: {e.Message}");
49 }
50 }
51 }
52
53 public class TokenResponse
54 {
55     public string AccessToken { get; set; }
56     public string RefreshToken { get; set; }
57     public int ExpiresIn { get; set; }
58 }

```

JavaScript/Node.js (with fetch)

```

1 const baseUrl = 'https://webapi.psinfoodservice.com/v7/json';
2
3 async function getProduct() {
4     try {
5         const loginResponse = await fetch(`${baseUrl}/account/login`, {
6             method: 'POST',
7             headers: {
8                 'Content-Type': 'application/json',
9             },
10            body: JSON.stringify({
11                username: 'your_username',
12                password: 'your_password'
13            })
14        });
15
16        if (!loginResponse.ok) {
17            throw new Error(`Login failed: ${loginResponse.status}`);
18        }
19
20        const tokenData = await loginResponse.json();
21        console.log(`Token obtained, valid for ${tokenData.expiresin}
seconds`);
22
23        const productId = 1234567;
24        const productResponse = await fetch(
25            `${baseUrl}/productsheet/${productId}`,
26            {
27                method: 'GET',
28                headers: {
29                    'Authorization': `Bearer ${tokenData.accesstoken}`,
30                    'Content-Type': 'application/json'
31                }
32            }
33        );
34
35        if (!productResponse.ok) {
36            throw new Error(`Product retrieval failed:
${productResponse.status}`);
37        }
38
39        const productData = await productResponse.json();
40        console.log('Product retrieved:', productData);
41
42        return productData;
43    }
44    catch (error) {
45        console.error('Error:', error.message);

```

```

46     throw error;
47 }
48 }
49
50 getProduct();

```

Python (with requests library)

```

1  import requests
2  import json
3
4  BASE_URL = "https://webapi.psinfoodservice.com/v7/json"
5
6  def get_product():
7      try:
8          login_data = {
9              "username": "your_username",
10             "password": "your_password"
11         }
12
13         login_response = requests.post(
14             f"{BASE_URL}/account/login",
15             json=login_data,
16             headers={"Content-Type": "application/json"})
17
18         login_response.raise_for_status()
19         token_data = login_response.json()
20
21         access_token = token_data["accesstoken"]
22         print(f"Token obtained, valid for {token_data['expiresin']}
23 seconds")
24
25         product_id = 1234567
26         headers = {
27             "Authorization": f"Bearer {access_token}",
28             "Content-Type": "application/json"
29         }
30
31         product_response = requests.get(
32             f"{BASE_URL}/productsheet/{product_id}",
33             headers=headers
34         )
35
36         product_response.raise_for_status()
37         product_data = product_response.json()
38
39         print("Product retrieved:")
40         print(json.dumps(product_data, indent=2))
41
42         return product_data
43
44     except requests.exceptions.RequestException as e:
45         print(f"Error: {e}")
46         raise
47
48 if __name__ == "__main__":
49     get_product()

```

PHP

```

1  <?php
2
3  $baseUrl = "https://webapi.psinfoodservice.com/v7/json";
4
5  function getProduct() {
6      global $baseUrl;
7
8      try {
9          $loginData = [
10             'username' => 'your_username',
11             'password' => 'your_password'
12         ];
13
14         $loginOptions = [
15             'http' => [
16                 'method' => 'POST',
17                 'header' => 'Content-Type: application/json',
18                 'content' => json_encode($loginData)
19             ]
20         ];
21
22         $loginContext = stream_context_create($loginOptions);
23         $loginResponse = file_get_contents(
24             "$baseUrl/account/login",
25             false,
26             $loginContext
27         );

```

```

28
29     if ($loginResponse === false) {
30         throw new Exception("Login failed");
31     }
32
33     $tokenData = json_decode($loginResponse, true);
34     $accessToken = $tokenData['access_token'];
35
36     echo "Token obtained, valid for {$tokenData['expires_in']}
seconds\n";
37
38     $productId = 1234567;
39
40     $productOptions = [
41         'http' => [
42             'method' => 'GET',
43             'header' => "Authorization: Bearer $accessToken\r\n" .
"Content-Type: application/json"
44         ]
45     ];
46
47
48     $productContext = stream_context_create($productOptions);
49     $productResponse = file_get_contents(
50         "$baseUrl/productsheet/$productId",
51         false,
52         $productContext
53     );
54
55     if ($productResponse === false) {
56         throw new Exception("Product retrieval failed");
57     }
58
59     $productData = json_decode($productResponse, true);
60
61     echo "Product retrieved:\n";
62     echo json_encode($productData, JSON_PRETTY_PRINT) . "\n";
63
64     return $productData;
65
66     } catch (Exception $e) {
67         echo "Error: " . $e->getMessage() . "\n";
68         throw $e;
69     }
70 }
71
72 getProduct();
73
74 ?>

```

Using XML Format

If you want to use XML format instead of JSON, replace `/json/` with `/xml/` in the URLs:

Login (XML):

```

1 POST https://webapi.psinfoodservice.com/v7/xml/account/login
2 Content-Type: application/json

```

Retrieve product (XML):

```

1 GET https://webapi.psinfoodservice.com/v7/xml/productsheet/1234567
2 Authorization: Bearer {token}

```

Note: The request body for login remains JSON, but the response will be in XML format.

Token Refresh (Refresh Token)

When your access token is about to expire, you can request a new token without logging in again:

Endpoint

```

1 POST https://webapi.psinfoodservice.com/v7/json/account/refreshToken

```

Request Body

```

1 {
2     "accessToken": "your_current_accesstoken",
3     "refreshToken": "your_refreshToken"
4 }

```

Response

```
1 {  
2   "accessToken": "new_accessToken",  
3   "refreshToken": "new_refreshToken",  
4   "expiresin": 3600  
5 }
```

Troubleshooting

Problem: 401 Unauthorized during login

Possible causes:

- Incorrect username or password
- IP address is blocked after multiple failed login attempts (24 hour block)
- Account is not active

Solution:

- Check your credentials
- Wait 24 hours if your IP is blocked
- Contact support: info@psinfoodservice.com

Problem: 401 Unauthorized when retrieving product

Possible causes:

- Token has expired
- Token is not correctly included in the Authorization header
- Format of the Authorization header is incorrect

Solution:

```
1 # Correct format:  
2 Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...  
3  
4 # NOT:  
5 Authorization: eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...
```

Problem: 403 Forbidden when retrieving product

Possible causes:

- You don't have access to this specific product
- Product ID doesn't exist
- Your account doesn't have the correct permissions

Solution:

- Check if the product ID is correct
- Check if your account has access to this product
- Contact support for access questions

Problem: 404 Not Found

Possible causes:

- Product doesn't exist in the system
- Wrong endpoint used
- Typo in URL

Solution:

- Check URL spelling
- Verify that the product ID exists

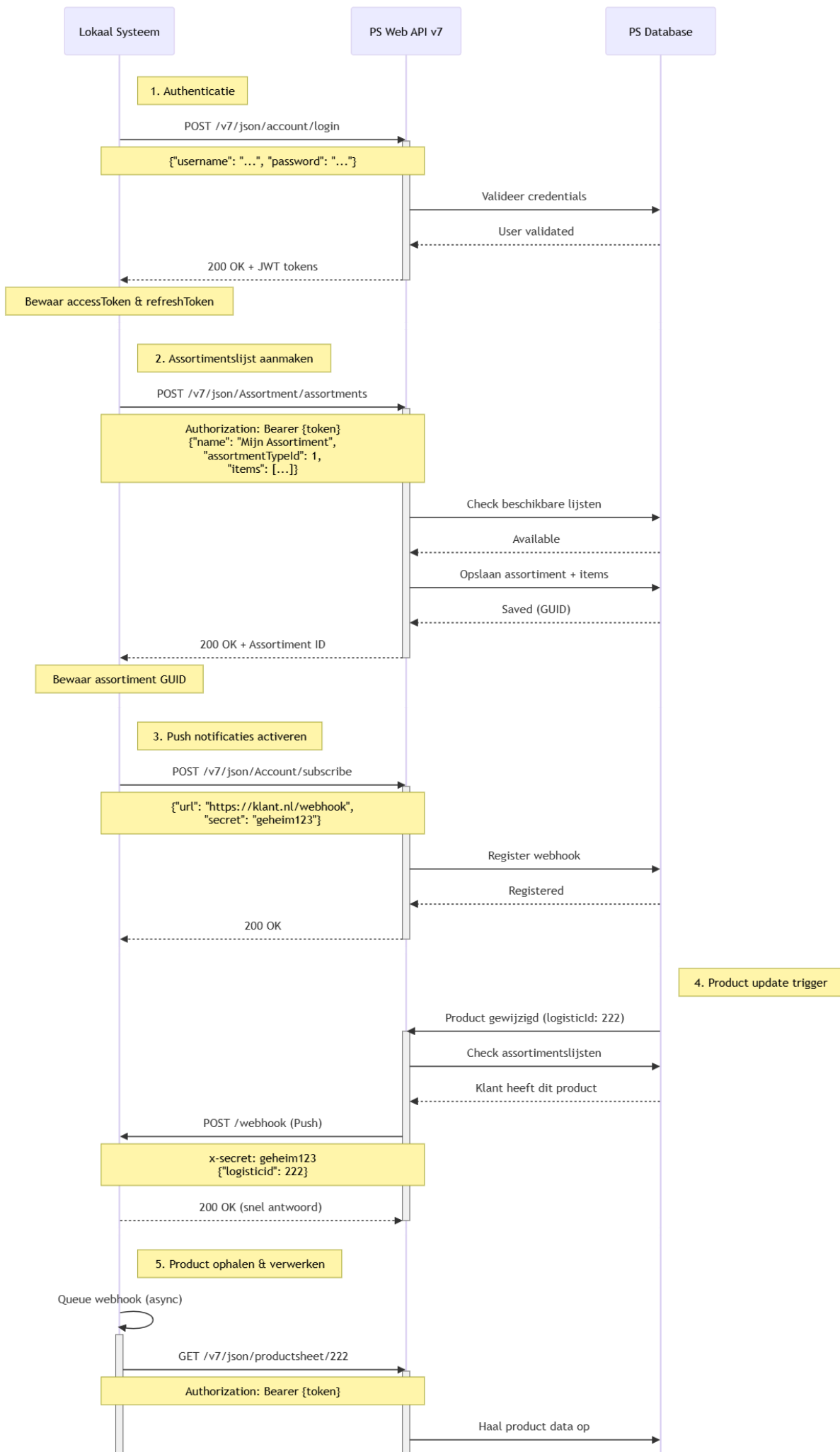
- Check the API documentation for correct endpoints

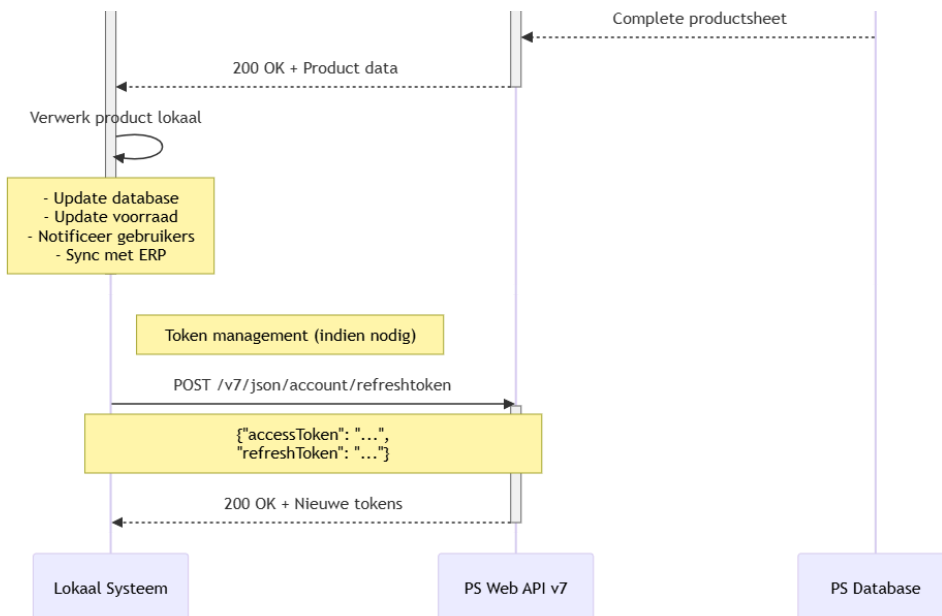
Problem: 400 Bad Request

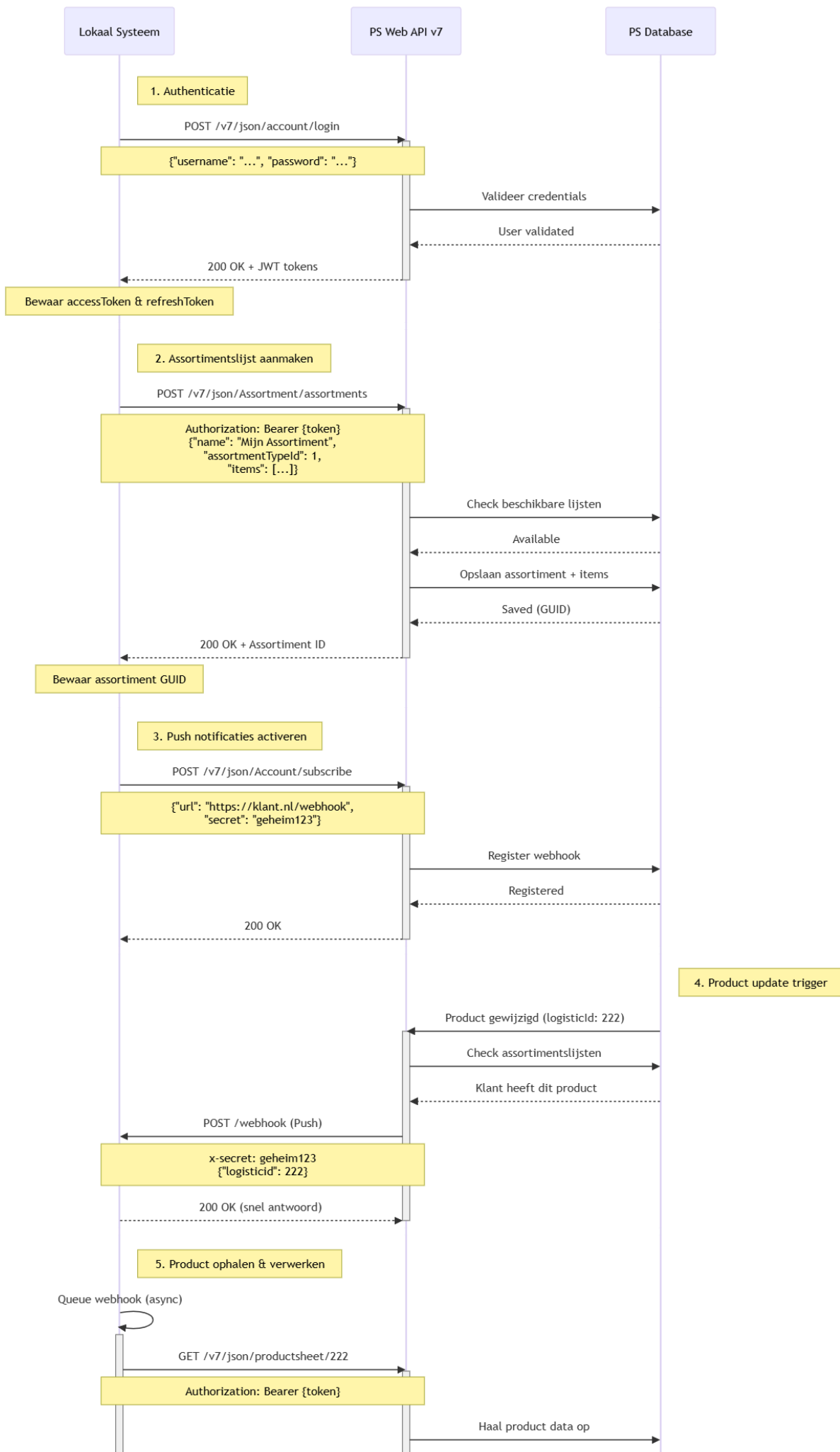
Possible causes:

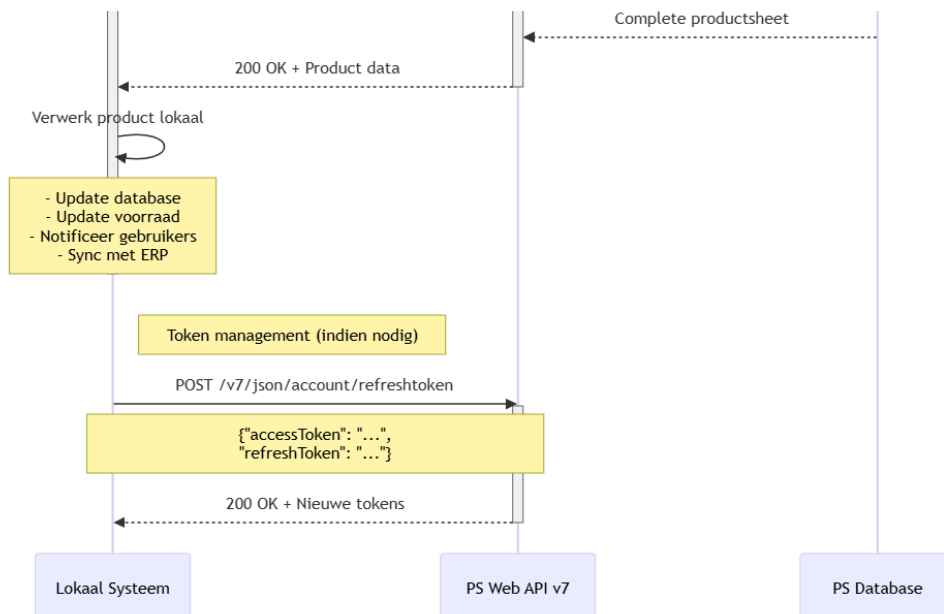
- Invalid JSON in request body
- Missing required fields
- Wrong data types
- Invalid language code (must be: nl, en, de, or fr)

Best Practices for Getting Started









1. Token Management

- Store tokens securely (e.g., environment variables, secure storage)
- Implement token refresh logic for expired tokens
- NEVER log tokens in console or log files

2. Error Handling

- Implement try-catch blocks for all API calls
- Handle different HTTP status codes separately
- Log errors for debugging, but without sensitive information

3. Testing

- Test first with Postman or cURL before writing code
- Use the Swagger documentation for endpoint details
- Test both success and error scenarios

4. Rate Limiting

- The API has rate limiting per endpoint
- Implement exponential backoff for rate limit errors
- Cache results where possible

5. Production Deployment

- Always use HTTPS (never HTTP)
- Store credentials in environment variables
- Implement logging and monitoring
- Test thoroughly in staging environment

Next Steps

Now that you've successfully made your first API call, you can continue with:

- **Section 5:** Learn more about all available endpoints
- **Section 6:** Discover product sheet functionality in detail
- **Section 9:** Implement assortment lists
- **Section 10:** Configure webhooks for real-time notifications
- **Section 12:** Best practices for production use

For more detailed information about specific endpoints, see the Swagger documentation:

[Swagger UI](#)

4. Authentication & Security

Authentication Flow

The authentication process proceeds through the following steps:

1. Login with username/password
2. Receipt of JWT token
3. Use token for subsequent calls

Authorization Token

Tokens contain the following information:

- User identity
- Permissions
- Validity duration

Important: Tokens have a limited validity duration and must be renewed via the authentication process.

5. API Endpoints & Functionality

Available Endpoints

Base URL structure:

```
1 https://webapi.psinfoodservice.com/v7/{format}/{endpoint}/{parameters}
```

Where:

- `{format}` = 'json' or 'xml'
- `{endpoint}` = specific functionality
- `{parameters}` = additional parameters

Important Endpoints

Product Sheet

```
1 GET /ProductSheet/{id}
2 GET /ProductSheet/{language}/{id}
```

Master Data

```
1 GET /master/all
2 GET /master/{type}
```

Updates

```
1 POST /Update/EAN
```

My Products

```
1 GET /myproducts
```

Data Formats

XML Format

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <root>
3   <logistic>
4     <!-- Logistic data -->
5   </logistic>
6   <product>
7     <!-- General product data -->
8   </product>
```

```

9      <specification>
10      <!-- Product specifications (optional) -->
11      </specification>
12 </root>

```

JSON Format

```

1 {
2   "logistic": {
3   },
4   "product": {
5   },
6   "specification": {
7   }
8 }

```

Request & Response Examples

Check Updates

Request:

```

1 {
2   "searchCriteria": [
3     "870000000000",
4     "870000000001",
5     "870000000002"
6   ],
7   "lastUpdatedAfter": "2023-12-22",
8   "isPrivateLabel": true,
9   "isPubliclyVisible": true,
10  "targetMarket": "All"
11 }

```

Response:

```

1 [
2   {
3     "LogisticId": 1690881,
4     "TargetMarketId": 1,
5     "LastChanged": "2023-08-24T12:53:24.823"
6   }
7 ]

```

6. Product Sheet Functionality

Structure

The product sheet consists of three main sections:

1. Logistic Section (required)

- Packaging data
- Logistic information

2. Product Section (required)

- General product data
- Product identification

3. Specification Section (optional)

- Food/Non-food specific data
- Additional product information

Language Support

- Default: all available languages
- Specific language via URL parameter
- Translated fields via master lists

Output Options

- **all**: complete product information
 - **summary**: brief summary
 - **productcontent**: product content only
 - **logistics**: logistic data only
-

7. Updates & Synchronization

Checking Updates

The update process includes:

1. Check for changes since date
2. Comparison with existing data
3. Processing of differences
4. Feedback of results

Submitting Data

When submitting data, the following is checked:

- Validity of the data
- Referential integrity
- Required fields
- Data type correctness

Validation Process

1. Syntactic validation
 2. Semantic validation
 3. Business rules validation
 4. Master data reference control
-

8. Master Data Management

Available Master Lists

- Units
- Allergens
- Countries
- Translations
- Packaging materials
- Additional product details

Usage and Implementation

1. Retrieving master lists
2. Implementation of updates
3. Processing in own system
4. Synchronization strategy

Caching Strategy

- Implement local cache
- Regular updates

- Version control
- Cache invalidation

9. Assortment Lists

Purpose and Functionality

Assortment lists make it possible to:

- Link products to customers
- Manage assortments
- Create relationships between suppliers and customers
- Manage articles structurally in categories

Customers can create and manage multiple assortment lists, add and remove articles, and request and view assortments.

API Endpoints

All assortment list endpoints require authentication with JWT token and the Read role. The endpoints automatically filter based on the RelationId from the token.

9.1 POST /v7/{format}/Assortment/assortments

Create a new assortment list

Creates a new assortment list with optional items. First checks if there are still available lists for the relation.

Parameters:

- `{format}` : Response format (json/xml)

Request Body:

```
1 {
2   "id": "guid",
3   "name": "string (required)",
4   "assortmentTypeId": "int (required, > 0)",
5   "items": [
6     {
7       "id": 0,
8       "articleNumber": "string",
9       "articleName": "string",
10      "articleBrand": "string",
11      "gtince": "string",
12      "gtinhe": "string",
13      "relationGln": "string",
14      "relationName": "string",
15      "relationArticleNumber": "string"
16    }
17  ]
18 }
```

Response Codes:

- **200 OK:** Assortment list successfully created
- **400 Bad Request:** Invalid input data
- **409 Conflict:** "No available lists" - no more available lists

9.2 GET /v7/{format}/Assortment/assortments

Retrieve all assortment lists

Retrieves all assortment lists belonging to the logged-in relation, including all items per list.

Parameters:

- `{format}` : Response format (json/xml)

Response Codes:

- **200 OK:** List of assortments
- **204 No Content:** No assortments found

9.3 PUT /v7/{format}/Assortment/assortments/items

Add items to an assortment list

Adds new items to an existing assortment list. Existing items are preserved.

Parameters:

- `{format}` : Response format (json/xml)

Request Body:

```

1 {
2   "id": "guid (required)",
3   "items": [
4     {
5       "id": 0,
6       "articleNumber": "string",
7       "articleName": "string",
8       "articleBrand": "string",
9       "gtince": "string",
10      "gtinhe": "string",
11      "relationGln": "string",
12      "relationName": "string",
13      "relationArticleNumber": "string"
14    }
15  ]
16 }
```

Response Codes:

- **200 OK:** Items successfully added
- **400 Bad Request:** Invalid input data
- **409 Conflict:** "No assortment list with Id {id} found."

9.4 DELETE /v7/{format}/Assortment/assortments/{id}/items

Remove items from an assortment list

Removes specific items from an existing assortment list. The list itself remains.

Parameters:

- `{format}` : Response format (json/xml)
- `{id}` : GUID of the assortment list (route parameter, required)

Response Codes:

- **200 OK:** Items successfully removed
- **400 Bad Request:** Invalid input data
- **409 Conflict:** "No assortment list with name {name} found."

9.5 GET /v7/{format}/Assortment/assortments/{id}/items

Retrieve a specific assortment list

Retrieves a specific assortment list including all items and metadata.

Parameters:

- `{format}` : Response format (json/xml)

- `{id}` : GUID of the assortment list (required)

Response Codes:

- **200 OK**: Assortment list found
- **204 No Content**: No assortment list found with this ID

9.6 DELETE /v7/{format}/Assortment/assortment/{id}

Delete a complete assortment list

Permanently deletes a complete assortment list including all items.

Parameters:

- `{format}` : Response format (json/xml)
- `{id}` : GUID of the assortment list (required)

Response Codes:

- **200 OK**: Assortment list successfully deleted
- **400 Bad Request**: Invalid ID
- **401 Unauthorized**: Not authorized
- **403 Forbidden**: No access to this list

Data Models

AssortmentDto (Output)

Represents a complete assortment list with all metadata and items.

```
1 public class AssortmentDto {
2     public Guid Id { get; set; }
3     public string Name { get; set; }
4     public AssortmentTypeDto AssortmentType { get; set; }
5     public List<AssortmentItemDto> Items { get; set; }
6 }
```

AssortmentInsertDto (Input)

For creating a new assortment list.

```
1 public class AssortmentInsertDto {
2     public Guid Id { get; set; }
3     public string Name { get; set; }
4     public int AssortmentTypeId { get; set; }
5     public List<AssortmentItemUpdateDto> Items { get; set; }
6 }
```

AssortmentItemDto

Represents an article within an assortment list.

```
1 public class AssortmentItemDto {
2     public int Id { get; set; }
3     public string ArticleNumber { get; set; }
4     public string ArticleName { get; set; }
5     public string ArticleBrand { get; set; }
6     public string GTINCE { get; set; }
7     public string GTINHE { get; set; }
8     public string RelationGln { get; set; }
9     public string RelationName { get; set; }
10    public string RelationArticleNumber { get; set; }
11 }
```

AssortmentTypeDto

Represents a type/category of assortment with multilingual names.

```
1 public class AssortmentTypeDto {
2     public int Id { get; set; }
3     public List<TranslationDto> Name { get; set; }
4 }
```

Implementation

Steps for implementation:

1. **Compile List** - Determine the assortment type, collect article data, validate required fields
2. **Create List** - POST to /v7/json/Assortment/assortments, check availability, store the generated ID
3. **Manage Items** - Add items via PUT, remove via DELETE
4. **Request List** - GET for all lists or specific list
5. **Delete List** - DELETE for complete list

Authentication & Authorization

Requirements for all endpoints:

- JWT Token in Authorization header
- Role: Read role required
- Token contains: RelationId and UserId for filtering

Token structure:

```
1 Authorization: Bearer <jwt-token>
```

Rate Limiting & Size Limits

POST and PUT endpoints:

- Request size limit: **100 MB**
- Enables large bulk uploads
- Suitable for complete assortment lists

10. Webhooks

Overview

Webhooks provide the ability to receive real-time notifications when products in your assortment list are changed. Instead of periodically polling the API for updates, you automatically receive a push message as soon as a change occurs.

How Does It Work?

Whenever a product from your assortment list is updated, the Web API automatically sends a POST request to your registered webhook URL.

Webhook Endpoints

Subscribe - Register for push notifications

Endpoint:

```
1 POST /v7/{format}/Account/subscribe
```

Description:

Register a webhook URL to receive notifications when products change.

Parameters:

- **{format}** : Response format (json/xml)

Request Body:

```
1 {
2   "url": "https://your-domain.com/webhook/productupdate",
3   "secret": "your-secret-key" // optional
```

```
4 }
```

Response Codes:

- **200 OK:** Webhook successfully registered
- **400 Bad Request:** Invalid URL or request
- **401 Unauthorized:** Not authorized

Unsubscribe - Unregister from push notifications

Endpoint:

```
1 POST /v7/{format}/Account/unsubscribe
```

Description:

Remove the registered webhook URL to stop receiving notifications.

Parameters:

- **{format}** : Response format (json/xml)

Response Codes:

- **200 OK:** Webhook successfully removed
- **400 Bad Request:** No webhook registered
- **401 Unauthorized:** Not authorized

Webhook Payload

When a product in your assortment list is changed, you will receive a POST request to your registered webhook URL with the following payload:

Request Method: POST

Content-Type: application/json

Headers:

```
1 {  
2   "x-secret": "your-secret-key" // if secret is specified at subscribe  
3 }
```

Body:

```
1 {  
2   "logisticid": 222  
3 }
```

Using Secret

When you specify a secret when subscribing, this value will be included in the x-secret header of each push message. Use this to verify the authenticity of incoming webhook messages.

Processing Webhook Messages

After receiving a webhook message, you can retrieve the full product data using the received **logisticid** :

Step 1: Receive webhook notification

```
1 {  
2   "logisticid": 222  
3 }
```

Step 2: Retrieve product data via the API

```
1 GET  
https://webapi.psinfoodservice.com/v7/json/productsheet/{logisticid}
```

```
2 Authorization: Bearer {your_accesstoken}
```

Implementation Example

Webhook Endpoint (C# / [ASP.NET Core, an open-source web development framework | .NET Core](#))

```
1 [ApiController]
2 [Route("webhook")]
3 public class WebhookController : ControllerBase
4 {
5     private readonly IProductService _productService;
6     private readonly ILogger<WebhookController> _logger;
7
8     public WebhookController(IProductService productService,
9         ILogger<WebhookController> logger)
10     {
11         _productService = productService;
12         _logger = logger;
13     }
14     [HttpPost("productupdate")]
15     public async Task<IActionResult> HandleProductUpdate([FromBody]
16         WebhookPayload payload)
17     {
18         // Validate webhook secret
19         if (!ValidateWebhookSecret())
20         {
21             _logger.LogWarning("Received webhook with invalid
22             secret");
23             return Unauthorized();
24         }
25         _logger.LogInformation($"Webhook received for logisticid:
26         {payload.LogisticId}");
27
28         try
29         {
30             var product = await
31             _productService.GetProductByIdAsync(payload.LogisticId);
32             await _productService.ProcessProductUpdateAsync(product);
33             return Ok();
34         }
35         catch (Exception ex)
36         {
37             _logger.LogError(ex, $"Error processing webhook for
38             logisticid: {payload.LogisticId}");
39             return StatusCode(500);
40         }
41     }
42     private bool ValidateWebhookSecret()
43     {
44         var expectedSecret = _configuration["Webhook:Secret"];
45         if (string.IsNullOrEmpty(expectedSecret))
46         {
47             _logger.LogWarning("Geen webhook secret geconfigureerd");
48             return true;
49         }
50         if (!Request.Headers.TryGetValue("x-secret", out var
51             receivedSecret))
52         {
53             return false;
54         }
55         return CryptographicOperations.FixedTimeEquals(
56             Encoding.UTF8.GetBytes(expectedSecret),
57             Encoding.UTF8.GetBytes(receivedSecret.ToString()));
58     }
59 }
```

```
1 public class WebhookPayload
2 {
3     public int LogisticId { get; set; }
4 }
```

Webhook Endpoint (Node.js / Express)

```
1 const express = require('express');
2 const crypto = require('crypto');
3 const app = express();
4
5 app.use(express.json());
6
7 // Configuration
8 const WEBHOOK_SECRET = process.env.WEBHOOK_SECRET || 'your-secret-
9 key';
10 const ACCESS_TOKEN = process.env.ACCESS_TOKEN;
11 // Middleware voor webhook secret verificatie
```

```

12 function validateWebhookSecret(req, res, next) {
13   const receivedSecret = req.headers['x-secret'];
14   if (!WEBHOOK_SECRET) {
15     console.warn('No webhook secret configured');
16     return next();
17   }
18   if (!receivedSecret) {
19     console.warn('Webhook ontvangen zonder secret header');
20     return res.status(401).send('Unauthorized');
21   }
22   const expectedBuffer = Buffer.from(WEBHOOK_SECRET);
23   const receivedBuffer = Buffer.from(receivedSecret);
24   if (expectedBuffer.length !== receivedBuffer.length ||
25       !crypto.timingSafeEqual(expectedBuffer, receivedBuffer)) {
26     console.warn('Received webhook with invalid secret');
27     return res.status(401).send('Unauthorized');
28   }
29   next();
30 }
31
32 app.post('/webhook/productupdate', async (req, res) => {
33   const { logisticid } = req.body;
34
35   console.log(`Webhook received for logisticid: ${logisticid}`);
36
37   try {
38     const productResponse = await fetch(
39       `https://webapi.psinfoodservice.com/v7/json/productsheet/${logisticid}`,
40       {
41         headers: {
42           'Authorization': `Bearer ${accessToken}`,
43           'Content-Type': 'application/json'
44         }
45       }
46     );
47     if (!productResponse.ok) {
48       throw new Error(`API error: ${productResponse.status}`);
49     }
50
51     const productData = await productResponse.json();
52     await processProductUpdate(productData);
53
54     res.status(200).send('OK');
55   } catch (error) {
56     console.error(`Error processing webhook: ${error.message}`);
57     res.status(500).send('Error');
58   }
59 });
60
61 app.listen(3000, () => {
62   console.log('Webhook server running on port 3000');
63 });
64
65 async function processProductUpdate(productData) {
66   // Implementeer hier uw eigen logica
67   console.log('Product update verwerken:', productData);
68 }
69
70 /**Environment variables (.env bestand):**
71 ...
72 WEBHOOK_SECRET=uw-geheime-sleutel
73 ACCESS_TOKEN=uw-access-token

```

Best Practices for Webhooks

1. Security

- Use HTTPS for your webhook endpoint
- Validate incoming requests
- Implement rate limiting on your endpoint

2. Reliability

- Return a 200 OK response quickly
- Process the actual update asynchronously
- Implement a queue for incoming webhooks

3. Error Handling

- Log all incoming webhook requests
- Implement retry logic for failed API calls

- Monitor your webhook endpoint for errors

4. Idempotency

- Design your processing to be idempotent (processing the same update multiple times gives the same result)
- Track which updates have already been processed

5. Timeout Handling

- Respond within 30 seconds to webhook requests
- Use background processing for long-running operations

11. Error Handling

HTTP Status Codes

Code	Meaning	When
200	OK	Successful operation
204	No Content	No data found
400	Bad Request	Invalid request or parameters
401	Unauthorized	Not authorized, token missing/invalid
403	Forbidden	Access denied, insufficient rights
404	Not Found	Resource not found
409	Conflict	Conflict with existing data
500	Internal Server Error	Server error

Error Messages

Error messages contain:

- Unique error code
- Descriptive message in clear language
- Additional details about the error
- Logging reference for support

Example error response:

```
1 {  
2   "error": "ValidationError",  
3   "message": "No assortment list with Id {guid} found.",  
4   "statusCode": 409,  
5   "timestamp": "2024-01-15T10:30:00Z"  
6 }
```

Troubleshooting

Common problems:

1. Connection problems

- Check network connectivity
- Verify SSL/TLS configuration

- Check firewall settings
- Test with ping/traceroute

2. Authentication problems

- Check API key/token validity
- Verify expired credentials
- Check IP whitelist settings
- Validate user rights

3. Validation errors

- Check required fields
- Validate data types
- Check data format (JSON/XML)
- Verify character encoding

4. Rate limiting

- Monitor number of API calls
 - Implement backoff strategy
 - Use caching where possible
 - Optimize batch sizes
-

12. Best Practices

Implementation Guidelines

1. Use the right endpoints

- Choose the right HTTP method (GET/POST/PUT/DELETE)
- Use correct URL structure
- Specify desired format (json/xml)

2. Implement error handling

- Try-catch blocks
- Retry logic for network errors
- Logging of errors
- User-friendly error messages

3. Validate input data

- Client-side validation
- Check required fields
- Validate data types
- Sanitize user input

4. Monitor performance

- Track response times
- Log API call volume
- Monitor error rates
- Set up alerts

5. Document changes

- Code comments
- API documentation

- Change logs
- Version control

Performance Optimization

1. Implement caching

- Cache master data locally
- Use HTTP caching headers
- Implement client-side cache
- Set appropriate TTL

2. Limit number of calls

- Batch requests where possible
- Use pagination
- Filter data server-side
- Minimize payload size

3. Optimize data traffic

- Use compression (gzip)
- Minimize response data
- Select only needed fields
- Use efficient data formats

4. Monitor response times

- Set performance baselines
- Track trends over time
- Identify bottlenecks
- Optimize slow endpoints

Caching Strategies

Master data caching:

- Cache duration: 24 hours
- Update trigger: version control
- Invalidation: on new version

Product data caching:

- Cache duration: 1-4 hours
- Update trigger: timestamp control
- Invalidation: on change detection

Token management:

- Refresh before expiration
- Secure storage
- Auto-renewal
- Error recovery

Cache invalidation:

- Time-based (TTL)
- Event-based (updates)
- Manual (force refresh)
- Version-based (API updates)

13. Support

Contact Information

Email technical questions: ict@psinfoodservice.com

Email commercial questions: info@psinfoodservice.com

Phone: +31 085 044 18 96

Support hours:

- Monday to Friday: 09:00 - 17:00 CET
- Emergency support: via email

FAQ

Frequently asked questions and answers are available on the support website.

Common topics:

- Authentication problems
- Rate limiting
- Data format questions
- Implementation tips
- Error handling

Additional Resources

Swagger documentation:

[Swagger UI](#)

Available resources:

- Postman collection for testing
- Code examples (C#, PHP, Python)
- Implementation guides

Appendix

Glossary

Term	Definition
JWT	JSON Web Token - authentication token format
GTIN	Global Trade Item Number - product identification
GLN	Global Location Number - location identification
EAN	European Article Number - barcode standard
TTL	Time To Live - cache validity duration

DTO	Data Transfer Object - data transport model
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