

ISBN Validation SOAP API Documentation

Version: 1.0

API Type: SOAP 1.1

Base URL: <http://webservices.daehosting.com/services/isbnservice.ws>

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1. Introduction

The ISBN Validation SOAP API provides a simple and reliable way to validate ISBN-13 numbers. This service verifies whether a provided ISBN-13 string is valid according to the ISBN-13 standard checksum algorithm. This documentation describes how to integrate with and use this API in your applications.

1.1 What is ISBN-13?

ISBN-13 (International Standard Book Number) is a 13-digit numerical identifier for books. The ISBN-13 includes a check digit that validates the authenticity of the number using a specific algorithm.

2. API Overview

Aspect	Details
Protocol	SOAP 1.1
Transport	HTTP POST
Content-Type	text/xml; charset=utf-8
Response Format	XML
Authentication	None Required
Rate Limiting	Not Specified

3. Service Details

3.1 Operation Name

IsValidISBN13 - Validates if a given ISBN-13 number is valid.

3.2 Namespace

<http://webservices.daehosting.com/ISBN>

3.3 Service Endpoint

Property	Value
Host	webservices.daehosting.com
Path	/services/isbnservice.wso
HTTP Method	POST
URL	http://webservices.daehosting.com/services/isbnservice.wso

4. Request Details

4.1 HTTP Request Headers

Header	Value	Required
Host	webservices.daehosting.com	Yes
Content-Type	text/xml; charset=utf-8	Yes
Content-Length	Varies	Yes
SOAPAction	(empty)	No

4.2 Request Parameters

Parameter	Data Type	Required	Description	Max Length
sISBN	String	Yes	The ISBN-13 number to validate	13 characters

4.3 Request Body Structure

The SOAP request envelope contains the operation call with the ISBN parameter:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  soap:Body
    string
  </soap:Body>
</soap:Envelope>
```

4.4 Request XML Elements

Element	Parent	Type	Description
soap:Envelope	Root	Container	SOAP envelope wrapping the entire message
soap:Body	soap:Envelope	Container	Contains the actual request operation
IsValidISBN13	soap:Body	Operation	The SOAP operation being called
sISBN	IsValidISBN13	String	The ISBN-13 number to validate

5. Response Details

5.1 HTTP Response Headers

Header	Value
HTTP Status Code	200 OK (on success)
Content-Type	text/xml; charset=utf-8
Content-Length	Varies

5.2 Response Body Structure

The SOAP response contains the validation result:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  soap:Body
    boolean
  </soap:Body>
</soap:Envelope>
```

5.3 Response XML Elements

Element	Parent	Type	Description
soap:Envelope	Root	Container	SOAP envelope wrapping the response
soap:Body	soap:Envelope	Container	Contains the response operation
IsValidISBN13Response	soap:Body	Operation	Response from the SOAP operation
IsValidISBN13Result	IsValidISBN13Response	Boolean	Validation result: true (valid) or false (invalid)

5.4 Response Codes

HTTP Status	SOAP Fault	Meaning	Description
200 OK	None	Success	The request was processed successfully, regardless of validation result
400 Bad Request	Client Fault	Invalid Request	Malformed SOAP envelope or missing required parameters

HTTP Status	SOAP Fault	Meaning	Description
500 Internal Server Error	Server Fault	Server Error	An error occurred on the server while processing the request

6. Data Types

6.1 Supported Data Types

Type	Description		Example
String	Text value representing the ISBN		"9780134685991"
Boolean	True or False response		true, false

7. Request Examples

7.1 Valid ISBN-13 Request

Scenario: Validating a known valid ISBN-13 number for a technical book.

POST /services/isbnservice.wso HTTP/1.1

Host: webservices.daehosting.com

Content-Type: text/xml; charset=utf-8

Content-Length: 385

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    9780134685991
  </soap:Body>
</soap:Envelope>
```

7.2 Invalid ISBN-13 Request

Scenario: Validating an invalid ISBN-13 number (incorrect check digit).

POST /services/isbnservice.wso HTTP/1.1

Host: webservices.daehosting.com

Content-Type: text/xml; charset=utf-8

Content-Length: 375

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    9780134685992
  </soap:Body>
</soap:Envelope>
```

8. Response Examples

8.1 Valid ISBN Response

Response when the ISBN-13 is valid:

HTTP/1.1 200 OK

Content-Type: text/xml; charset=utf-8

Content-Length: 345

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    true
  </soap:Body>
</soap:Envelope>
```

8.2 Invalid ISBN Response

Response when the ISBN-13 is invalid:

HTTP/1.1 200 OK

Content-Type: text/xml; charset=utf-8

Content-Length: 346

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    false
  </soap:Body>
</soap:Envelope>
```

9. Error Handling

9.1 Common Errors

Error Type	HTTP Status	SOAP Fault Code	Likely Cause	Resolution
Missing Parameter	400	Client	sISBN parameter not provided	Include the sISBN parameter in request
Invalid Format	400	Client	SOAP envelope structure incorrect	Verify XML structure matches SOAP 1.1 specification
Empty String	400	Client	sISBN value is empty or null	Provide a valid ISBN-13 string (13 digits)
Server Error	500	Server	Server-side processing error	Retry request after a delay

9.2 SOAP Fault Response Example

Scenario: Missing required parameter

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <soap:Fault>
      soap:Client Missing required parameter: sISBN
    </soap:Fault>
```

```
</soap:Body>
</soap:Envelope>
```

10. Best Practices

10.1 Implementation Guidelines

- **Validate Input:** Always validate ISBN format before sending requests (13 digits)
- **Handle Timeouts:** Implement timeout handling for network requests
- **Error Handling:** Properly handle HTTP status codes and SOAP faults
- **Content-Type:** Always specify text/xml; charset=utf-8 in request headers
- **XML Encoding:** Maintain UTF-8 encoding throughout the request/response cycle
- **Namespace Awareness:** Use correct namespace:
<http://webservices.daehosting.com/ISBN>

10.2 Request Optimization

- Cache validation results when appropriate
 - Batch multiple ISBN validations when possible
 - Implement exponential backoff for retry logic
 - Use persistent connections (HTTP Keep-Alive)
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11. Integration Examples

11.1 cURL Example

```
curl -X POST http://webservices.daehosting.com/services/isbnservice.wso
-H "Content-Type: text/xml; charset=utf-8"
-d '
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    9780134685991
  </soap:Body>
</soap:Envelope>'
```

11.2 Python Example

```
import requests

isbn_to_validate = "9780134685991"
soap_request = f"""
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    {isbn_to_validate}
  </soap:Body>
</soap:Envelope>"""

headers = {"Content-Type": "text/xml; charset=utf-8"}
response = requests.post(
  "http://webservices.daehosting.com/services/isbnservice.wso",
  data=soap_request,
```

```
headers=headers  
)  
  
print(response.status_code)  
print(response.text)
```

12. Support and Contact

For technical support, issues, or questions regarding this API:

Category	Details
Documentation	https://webservices.daehosting.com/docs
Service Status	https://webservices.daehosting.com/status
Email Support	support@daehosting.com

13. Revision History

Version	Date	Changes
1.0	November 26, 2025	Initial documentation release

14. License and Disclaimer

This API documentation is provided "as-is" for integration purposes. The service is provided without warranty. Users are responsible for implementing appropriate error handling and validation in their applications.

Document Information

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