

API Integration Guide

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Axelta Systems API Integration Guide

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1. Executive Summary

This document provides a detailed description of steps involved to integrate devices with Osmosis Gateway.

This document is divided into 4 sections:

1. Pre-integration activities
2. Custom headers configuration
3. Security Configuration
4. Integration touch-points. Each integration touch-point will have
 - a. Request Method
 - b. Request Method parameters
 - c. Request URL
 - d. Status Codes and Messages
 - e. Sample Request and Response

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2. Pre-integration Activities

- Register as a new client at www.axelta.com
- Create gateway and device using Axelta Osmosis UI
- You need gateway and device numbers to be able to use this Web Service.
- You can follow the rest of the documentation on how to use the APIs, you can use very simple HTTP Get and POST requests to perform all your operations, and it's very simple and straight forward.
- No SOAP requests/knowledge required. Axelta has got strict policy on unwanted hits/load from any of the API users and screen scrapers.
- To protect from your IP getting black listed, please follow the Best Practices – for your integration section.

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3. Security Configuration

Authentication is verified by using the Device Number, Gateway Number and Gateway Key.

This can be done in the following ways:

- Passing Keys in JSON object as part of Http Request

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4. Integration Touch-Points

Each integration touch-point will have

1. Request Method
2. Request Method parameters
3. Request URL
4. Status Codes and Messages
5. Sample Request and Response

4.1. Send Device Data

This method returns the Http response code.

This API method needs to be called whenever device passes the data to the OSMOSIS Gateway.

4.1.1.1. Request Method

Http POST protocol

4.1.1.2. Request Method Parameters

Parameter	Data Type	Required	Description
gateway_no	String	Yes	Gateway Number
device_no	String	Yes	Device Number
gateway_key	String	Yes	Gateway Secret key

4.1.1.3. Request URL

<http://axwsdemo.elasticbeanstalk.com/services/data/>

4.1.1.4. Status Codes and Messages

Code	Message	Description
200	Success	This is for successful completion of a request.
401	Access Denied	Required parameters blank or Invalid
500	Internal Server Error	Errors, Exceptions if any occurs in Server Side while processing a request

4.1.1.5. Sample Request and Response

4.1.1.5.1. Request

Sample Request URL :

<http://axwsdemo.elasticbeanstalk.com/services/data/>

Sample Request Body :

```
{"device_sno":"001","gateway_sno":"WSP123","gateway_key":  
" XJ1K40SBEK3NPSDOL177","Temperature":"25"}
```

4.1.1.5.2. Response

200

To view the above passed json data, follow the below steps:

- Login into Your Account on www.axelta.com
- Then click on "**devices**"
- Click on gateway key (**XJ1K40SBEK3NPSDOL177**) → Edit → Device Data → Time Stamp

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