



PAYE Modernisation

SOAP & REST: Error Message Structure Guide

Version
Version Date

1.0 Release Candidate 2
08/08/2018

Version History			
Version	Change Date	Section	Change Description
1.0 Release Candidate 2	08/08/2018	New Document	

Audience

This document is for any user/software provider who wishes understand Revenue's error message structure in more detail.

Document context

This document provides details of SOAP and REST error message structure.

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INTRODUCTION

The PAYE Modernisation web service can have two types of response for an invalid request. The first are those where the response is sent over a valid HTTP code. For example, the payslip level validation, whose details are available on the check payroll submission endpoint, sends the response with a valid HTTP code.

This document only discusses the cases where the Webservice sends invalid error codes. That is 4xx/5xx in REST and SOAP.

There can be three such cases

1. Schema error
2. Valid schema but bad request
3. Server Fault

The error response structure for all three cases are shown below. The response can have one or more error objects.

An error object has three fields, they are:

1. **Description:** a short description of the error message.
2. **Code:** Validation code for the error, this is only available for bad requests.
3. **Path:** The path in the request where the error is found, this is only available for bad requests as well.

Following table gives example for each type of error:

SOAP	REST
Type: Schema Problem with Request: No Submission Id Response Code – 400 Actual Message : SOAP Schema Error	Type: Schema Problem with Request: No PPSN Response Code – 400 Actual Message : REST Schema Error
Type: Correct schema but bad request Problem with Request: Duplicate Submission Id Response Code 400 Actual Message : SOAP Bad Request	Type: Correct schema but bad request Problem with Request: Duplicate Submission Id Response code 400 Actual Message : REST Bad Request
Type: Server Fault Problem: Any problem with server Response Code 500 Actual Message : SOAP Server Fault	Type: Server Fault Problem: Any problem with server Response code 500 Actual Message : REST Server Fault

Table showing the error responses in different scenarios

SOAP Schema Error

```
<?xml version="1.0" encoding="UTF-8"?><env:Fault xmlns:env="http://www.w3.org/2003/05/soap-envelope">
  <env:Code>
    <env:Value>env:Sender</env:Value>
  </env:Code>
  <env:Reason>
    <env:Text xml:lang="en">Schema Error</env:Text>
  </env:Reason>
  <env:Detail>
    <ApplicationFaultDetails>
      <ValidationErrors>
        <Error>
          <description>cvc-complex-type.2.4.a: Invalid content was found starting with element 'pay:Header'. One of
{'http://www.ros.ie/schemas/payee-employers/v1/payroll/':SubmissionID}' is expected.</description>
          <code>N/A</code>
          <path>N/A</path>
        </Error>
      </ValidationErrors>
    </ApplicationFaultDetails>
  </env:Detail>
</env:Fault>
```

REST Schema Error

```
{
  "validationErrors" : [ {
    "description" : "The value null for property payslips[0].employeeID.employeePpsn is not valid because may not be
null.",
    "code" : "N/A",
    "path" : "N/A"
  } ]
}
```

SOAP Bad Request

```
<?xml version="1.0" encoding="UTF-8"?><env:Fault xmlns:env="http://www.w3.org/2003/05/soap-envelope">
<env:Code>
<env:Value>env:Sender</env:Value>
</env:Code>
<env:Reason>
<env:Text xml:lang="en">Validation Error</env:Text>
</env:Reason>
<env:Detail>
<ApplicationFaultDetails>
<ValidationErrors>
<Error>
<description>Duplicate submission across Submission ID, Batch Index (if applicable) and Employer Registration
Number.</description>
<code>2001</code>
<path>SubmissionID</path>
</Error>
</ValidationErrors>
</ApplicationFaultDetails>
</env:Detail>
</env:Fault>
```

REST Bad Request

```
{
  "validationErrors" : [ {
    "description" : "Duplicate submission across Submission ID, Batch Index (if applicable) and Employer Registration
Number.",
    "code" : "2001",
    "path" : "SubmissionID"
  } ]
}
```

SOAP Server Fault

```
<?xml version="1.0" encoding="UTF-8"?><env:Fault xmlns:env="http://www.w3.org/2003/05/soap-envelope">
  <env:Code>
    <env:Value>env:Receiver</env:Value>
  </env:Code>
  <env:Reason>
    <env:Text xml:lang="en">Server Fault</env:Text>
  </env:Reason>
  <env:Detail>
    <ApplicationFaultDetails>
      <ValidationErrors>
        <Error>
          <description>There was an internal error while calling the service</description>
          <code>N/A</code>
          <path>N/A</path>
        </Error>
      </ValidationErrors>
    </ApplicationFaultDetails>
  </env:Detail>
</env:Fault>
```

REST Server Fault

```
{
  "validationErrors" : [ {
    "description" : "There was an internal error while calling the service",
    "code" : "null",
    "path" : "N/A"
  } ]
}
```