

# Troubleshooting - OAuth 2.0 NW ABAP token service return HTTP 500 Internal Server Error

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## Problem

After sending a request to the access token endpoint `/sap/bc/sec/oauth2/token` you get an internal server error 500.

## Investigation

Tx: SA38 Program: SEC\_TRACE\_ANALYZER

Run program.

Select OAuth varian: click on Get Variants

Click on Activate

Trace is active.

Reproduce the issue. The log trace for the user will show the cause of the error:

```
Error while parsing an XML stream: undeclared namespace prefix.
```

## Root cause

The XML send by the IdP in the SAMLResponse parameter is invalid. A sample assertion to send by the IdP can be found in [SAP Help](#). In my case, Keycloak returned:

---

```
Destination="https://vhcalnplci:44300/sap/saml2/sp/acs/001"  
ID="ID_7716c053-3127-4569-ba8b-0b8ac71b5b46"  
InResponseTo="S08002777-0476-1eda-81c0-9be5c3b6e0d8"  
IssueInstant="2019-11-13T14:21:21.799Z" Version="2.0">

\[...\]


```

```
ID="ID_f9bce362-950a-4845-a962-338861b8586d" IssueInstant="2019-11-13T14:21:21.798Z"  
Version="2.0">http://localhost:8080/auth/realms/masteroidclient[...]
```

---

The SAML assertions are in the namespace `xmlns:saml`. This namespace must be passed with the Assertion to Gateway. If not, the XML is invalid. When sending the SAMLResponse to the OAuth token issuer service from SAP NetWeaver ABAP, make sure that the XML file is valid.

A valid XML for the above example looks like:

---

```
ID="ID_f9bce362-950a-4845-a962-338861b8586d" IssueInstant="2019-11-13T14:21:21.798Z"  
Version="2.0">http://localhost:8080/auth/realms/masteroidclient[...]
```

---

What Keycloak delivers is:

What is needed is:

## Solution

The `xmlns:saml` part is missing in `xmlns`. As you are only going to send the assertion to NW, include the `saml` namespace: `xmlns:saml`.