

Using Transactions with soapUI

The following tutorial demonstrates how SOA Gateway can be used with Adabas transactions. It is assumed you are already familiar with the following

- soapUi (see here)
- Creating SOA Gateway web services from Adabas (see here)
- Familiar with SOAP Header usage concepts (see here)

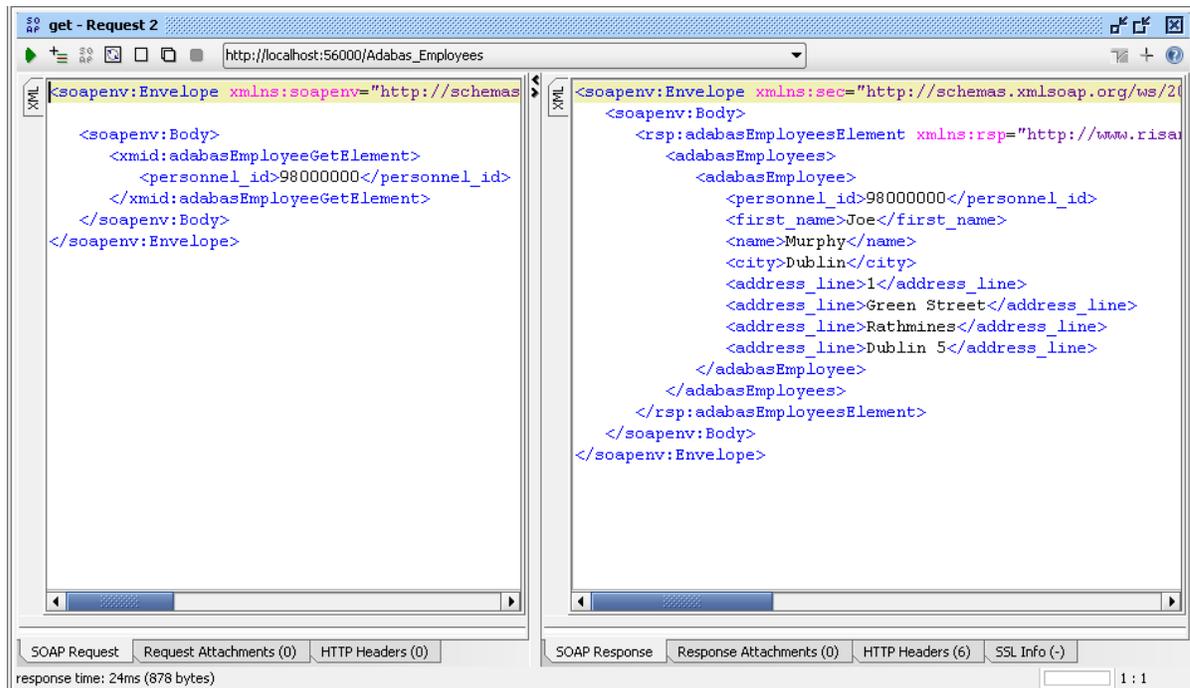
For this tutorial, we will use the Employees demo file (usually file number 11) that comes with Adabas, and the **adabas_employees_mini_view** data view. It is assumed you have already created a web service for your Adabas file.

Important:

By default, SOA Gateway will time-out and kill existing Conversations after a period of time. This is can be configured using the Control Centre. with a maximum value of 3600 (10 minutes). See here for more information.

1. Import the WSDL into soapUi.
2. Choose the request for the add operation, and in the XML set the ConversationState to "New" and the TransactionState to "New". Also remove the other Header values. Send the request to SOA Gateway

E.g



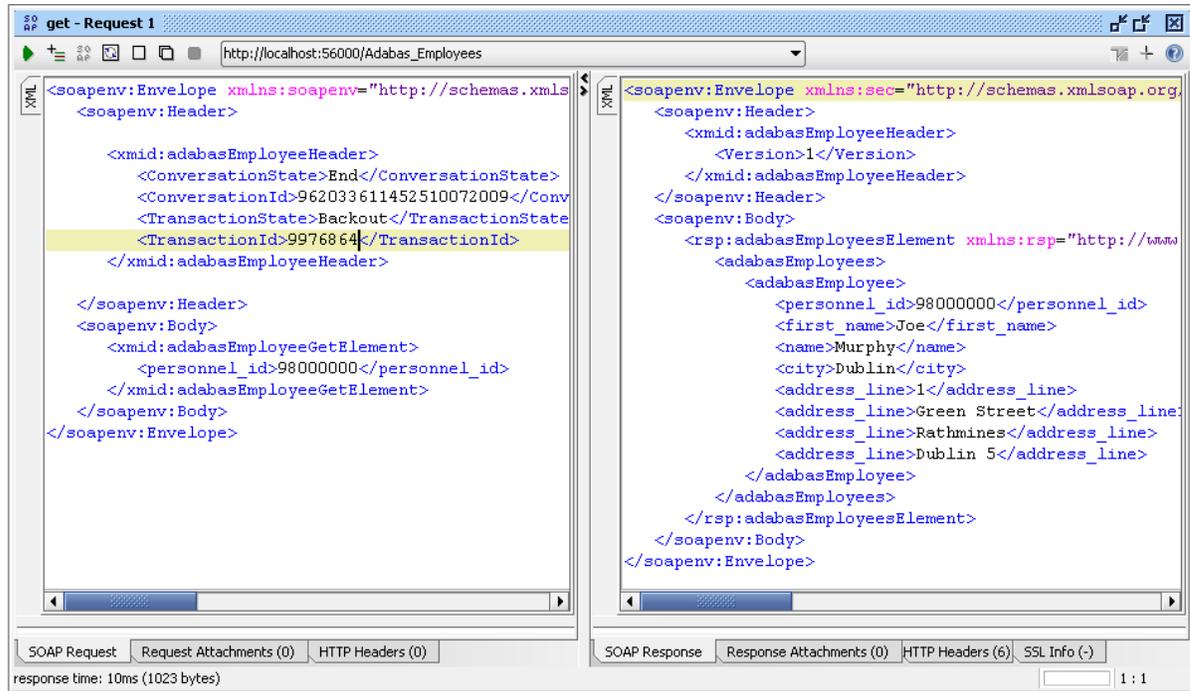
The record has been added, but not yet committed. Because Adabas' isolation level is "Read Uncommitted" (also known as "dirty read"), a request from a non-conversational request will still return the added, but-yet-uncommitted, record.

4. Now backout the transaction.

Choose a get request, and enter the following:

- ConversationState to "End"
- ConversationID to the value returned in the add response
- TransactionState to "Backout"
- TransactionID to the value returned in the add response

E.g



- Now, if you re-run the request from Step 3, the item does not exist as the previous add has been backed out.

E.g.

The screenshot displays the soapUI interface for a SOAP transaction. The window title is "get - Request 2" and the address bar shows "http://localhost:56000/Adabas_Employees".

SOAP Request:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <xmid:adabasEmployeeGetElement>
      <personnel_id>98000000</personnel_id>
    </xmid:adabasEmployeeGetElement>
  </soapenv:Body>
</soapenv:Envelope>
```

SOAP Response:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <soap:Fault>
      <soap:faultcode>-31009</soap:faultcode>
      <soap:faultstring>
        Fri Jul 10 11:51:23.00359390, pid: 00001032, tid: 00001336.
        ERROR: in file .\v001\src\adabasDriver.cpp, at line 2584.

        adabasDriver::getData() returned -31009, indicating
        the requested record/item does not exist.
      </soap:faultstring>
    </soap:Fault>
  </soap:Body>
</soap:Envelope>
```

At the bottom of the window, the status bar shows "SOAP Request", "Request Attachments (0)", "HTTP Headers (0)", "SOAP Response", "Response Attachments (0)", "HTTP Headers (6)", "SSL Info (-)", and "response time: 24ms (471 bytes)". The system clock in the bottom right corner shows "15 : 17".