

# NCPDP Connector

NCPDP telecommunication standard is a standard format for the electronic submission of third-party drug claims and other transactions between pharmacy providers, insurance carriers, third-party administrators, and other responsible parties. The Telecommunication Standard includes transactions for eligibility verification, claim and service billing, predetermination of benefits, prior authorization, and information reporting.

The NCPDP connector allows you to parse the NCPDP data format into XML. For general information on using connectors and their operations in your EI configurations, see [Using a Connector](#). Then you can follow this [documentation](#) to add and enable the connector via the Management Console in your EI instance. If you want to work with connectors via EI tooling, see [Working with Connectors via Tooling](#).

## Configuring NCPDP Operation

Add the following `<ncdp.ncdpToXml>` method in your configuration:

```
<ncdp.ncdpToXml>
  <message>{$ctx:message}</message>
</ncdp.ncdpToXml>
```

### Properties

- message - The NCPDP message to be parsed.

## Sample configuration

Following example illustrates how to work with NCPDP connector.

1. Create a sample proxy as below :

```

<?xml version="1.0" encoding="UTF-8"?>
<proxy xmlns="http://ws.apache.org/ns/synapse" name="ncdpd"
  transports="https,http" statistics="disable" trace="disable"
  startOnLoad="true">
  <target>
    <inSequence onError="faultHandlerSeq">
      <enrich>
        <source type="custom"
          xpath="//m0:text/text()"
          xmlns:m0="http://ws.apache.org/commons/ns/payload"/>
        <target property="message" type="property"/>
      </enrich>
      <ncdpd.ncdpdToXml>
        <message>{$ctx:message}</message>
      </ncdpd.ncdpdToXml>
      <respond/>
    </inSequence>
    <outSequence>
      <send/>
    </outSequence>
  </target>
  <description/>
</proxy>

```

2. Execute the following curl command:

```

curl http://localhost:8280/services/ncdpd -H "Content-Type: text/plain;
charset=UTF-8" -d "004915D0B1 1011972698702 20120103
<1E><1C>AM01<1C>CX99<1C>CY814667213<1C>C419480306<1C>C52<1C>CA
Linda<1C>CBCamacho<1C>CM5813 GLORYVINE CT APT
103<1C>CNRICHMOND<1C>COVA<1C>CP23234<1C>CQ5555555555<1C>C71<
1C>4X0<1E><1C>AM04<1C>C2814667213<1C>CCLinda<1C>CDCamacho<1C>C
171370012<1C>C3000<1C>C62<1D><1E><1C>AM07<1C>EM1<1C>D201000875
7692<1C>E103<1C>D700186504082<1C>E790000<1C>D34<1C>D590<1C>D61<1
C>D80<1C>DE20110119<1C>DF3<1C>DJ1<1C>EJ03<1C>EA00186504082<1C>E
B90000<1C>28EA<1E><1C>AM03<1C>EZ12<1C>DBAH7437812<1C>DRHARV
EY<1C>2K199 MOUNT LEO HEIGHTS ST<1C>2MMC
MINNVILLE<1C>2NTN<1C>2P37110<1E><1C>AM06<1C>DY0<1C>CG9548
103RD AVE
NE<1C>CHLANGDON<1C>CIND<1C>CJ58249<1C>CK5555555555<1C>TT9999
99999<1E><1C>AM11<1C>D97196E<1C>DQ7196E<1C>DU7196E<1C>DN01"

```

3. EI returns a XML response similar to the one shown below:

```
<ns:result xmlns:ns="http://org.wso2.esbconnectors.ncdpconnector">
  <NCPDP_D0_Billing_Request>
    <TransactionHeaderRequest>
      <BinNumber>004915</BinNumber>
      <VersionReleaseNumber>D0</VersionReleaseNumber>
      <TransactionCode>B1</TransactionCode>
      <ProcessorControlNumber>      </ProcessorControlNumber>
      <TransactionCount>1</TransactionCount>
      <ServiceProviderIdQualifier>01</ServiceProviderIdQualifier>
      <ServiceProviderId>1972698702  </ServiceProviderId>
      <DateOfService>20120103</DateOfService>
      <SoftwareVendorCertificationId>      </SoftwareVendorCertificationId>
    </TransactionHeaderRequest>
    <Patient>
      <PatientIdQualifier>99</PatientIdQualifier>
      <PatientId>814667213</PatientId>
      <DateOfBirth>19480306</DateOfBirth>
      <PatientGenderCode>2</PatientGenderCode>
      <PatientFirstName>Linda</PatientFirstName>
      <PatientLastName>Camacho</PatientLastName>
      <PatientStreetAddress>5813 GLORYVINE CT APT
103</PatientStreetAddress>
      <PatientCityAddress>RICHMOND</PatientCityAddress>
      <PatientStateProvinceAddress>VA</PatientStateProvinceAddress>
      <PatientZipPostalZone>23234</PatientZipPostalZone>
      <PatientPhoneNumber>5555555555</PatientPhoneNumber>
      <PlaceOfService>1</PlaceOfService>
      <PatientResidence>0</PatientResidence>
    </Patient>
    <Insurance>
      <CardholderId>814667213</CardholderId>
      <CardholderFirstName>Linda</CardholderFirstName>
      <CardholderLastName>Camacho</CardholderLastName>
      <GroupId>71370012</GroupId>
      <PersonCode>000</PersonCode>
      <PatientRelationshipCode>2</PatientRelationshipCode>
    </Insurance>
    <Transactions>
      <Transaction counter="1">
```

<Claim>

<PrescriptionServiceReferenceNumberQualifier>1</PrescriptionServiceReferenceNumberQualifier>

<PrescriptionServiceReferenceNumber>010008757692</PrescriptionServiceReferenceNumber>

<ProductServiceIdQualifier>03</ProductServiceIdQualifier>

<ProductServiceId>00186504082</ProductServiceId>

<QuantityDispensed>90000</QuantityDispensed>

<FillNumber>4</FillNumber>

<DaysSupply>90</DaysSupply>

<CompoundCode>1</CompoundCode>

<DispenseAsWrittenProductSelectionCode>0</DispenseAsWrittenProductSelectionCode>

<DatePrescriptionWritten>20110119</DatePrescriptionWritten>

<NumberOfRefillsAuthorized>3</NumberOfRefillsAuthorized>

<PrescriptionOriginCode>1</PrescriptionOriginCode>

<OrigPrescribedProductServiceIdQualifier>03</OrigPrescribedProductServiceIdQualifier>

<OriginallyPrescribedProductServiceCode>00186504082</OriginallyPrescribedProductServiceCode>

<OriginallyPrescribedQuantity>90000</OriginallyPrescribedQuantity>

<UnitOfMeasure>EA</UnitOfMeasure>

</Claim>

<Prescriber>

<PrescriberIdQualifier>12</PrescriberIdQualifier>

<PrescriberId>AH7437812</PrescriberId>

<PrescriberLastName>HARVEY</PrescriberLastName>

<PrescriberStreetAddress>199 MOUNT LEO HEIGHTS  
ST</PrescriberStreetAddress>

<PrescriberCityAddress>MC MINNVILLE</PrescriberCityAddress>

<PrescriberStateAddress>TN</PrescriberStateAddress>

<PrescriberZipAddress>37110</PrescriberZipAddress>

</Prescriber>

<WorkersCompensation>

<DateOfInjury>0</DateOfInjury>

<EmployerStreetAddress>9548 103RD AVE  
NE</EmployerStreetAddress>

<EmployerCityAddress>LANGDON</EmployerCityAddress>

<EmployerStateProvinceAddress>ND</EmployerStateProvinceAddress>

```
<EmployerZipPostalZone>58249</EmployerZipPostalZone>
<EmployerPhoneNumber>5555555555</EmployerPhoneNumber>
<PayToId>999999999</PayToId>
</WorkersCompensation>
<Pricing>
  <IngredientCostSubmitted>7196E</IngredientCostSubmitted>
  <UsualAndCustomaryCharge>7196E</UsualAndCustomaryCharge>
  <GrossAmountDue>7196E</GrossAmountDue>
  <BasisOfCostDetermination>01</BasisOfCostDetermination>
</Pricing>
</Transaction>
</Transactions>
</NCPDP_D0_Billing_Request>
</ns:result>
```