

# Auction EPP Extension for the .nrw TLD

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## 1. Schema Definition (Formal Syntax)

```

<?xml version="1.0" encoding="UTF-8"?>

<schema targetNamespace="http://xmlns.tango-rs.net/epp/auction-1.0"
  xmlns:auction="http://xmlns.tango-rs.net/epp/auction-1.0"
  xmlns:eppcom="urn:ietf:params:xml:ns:eppcom-1.0"
  xmlns="http://www.w3.org/2001/XMLSchema">

  <annotation>
    <documentation>
      Extensible Provisioning Protocol v1.0
      domain name extension schema for auction data
      processing for the .nrw registry.
    </documentation>
  </annotation>

  <!-- child elements found in EPP commands -->

  <element name="create" type="auction:requestType"/>
  <element name="update" type="auction:requestType"/>

  <!-- child elements of the transform commands -->
  <complexType name="requestType">
    <sequence>
      <element name="bid" type="auction:bidType"/>
    </sequence>
  </complexType>

  <!-- child response elements -->

  <element name="infData" type="auction:infDataType"/>

  <!-- response elements -->
  <complexType name="infDataType">
    <sequence>
      <element name="bid" type="auction:bidType"/>
    </sequence>
  </complexType>

  <!-- common types -->

  <simpleType name="nonNegAmount">
    <restriction base="decimal">
      <minInclusive value="0"/>
      <fractionDigits value="2"/>
    </restriction>
  </simpleType>

  <!-- a currency specified by its ISO 4217 country code -->
  <simpleType name="currencyType">
    <restriction base="token">
      <length value="3"/>
    </restriction>
  </simpleType>

  <!-- a bid -->
  <complexType name="bidType">
    <simpleContent>

```

```
<extension base="auction:nonNegAmount">  
  <attribute name="currency" type="auction:currencyType"  
    use="required"/>  
</extension>  
</simpleContent>  
</complexType>  
</schema>
```

## 2. Examples

In the following examples, "C:" represents lines sent by an EPP client and "S:" represents lines returned by the Minds + Machines GmbH EPP server.

### 2.1. EPP <info> Command

#### 2.1.1. Example <info> response with a bid:

```
S:<?xml version='1.0' encoding='UTF-8'?>
S:<epp xmlns='urn:ietf:params:xml:ns:epp-1.0'
S:  xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance'
S:  xsi:schemaLocation='urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd'>
S: <response>
S:   <result code='1000'>
S:     <msg lang='en-US'>Command completed successfully</msg>
S:   </result>
S:   <resData>
S:     <domain:infData xmlns:domain='urn:ietf:params:xml:ns:domain-1.0'
S:       xsi:schemaLocation='urn:ietf:params:xml:ns:domain-1.0
S:         domain-1.0.xsd'>
S:       <domain:name>example.nrw</domain:name>
S:       <domain:roid>D123456789-COM</domain:roid>
S:       <domain:status s='active' />
S:       <domain:registrar>abc123</domain:registrar>
S:       <domain:contact type='admin'>def456</domain:contact>
S:       <domain:contacttype='tech'>ghi789</domain:contact>
S:       <domain:ns>
S:         <domain:hostObj>ns1.example.net</domain:hostObj>
S:         <domain:hostObj>ns2.example.net</domain:hostObj>
S:       </domain:ns>
S:       <domain:clID>registrar</domain:clID>
S:       <domain:crID>registrar</domain:crID>
S:       <domain:crDate>2010-09-08T07:06:05.0Z</domain:crDate>
S:       <domain:exDate>2012-09-08T23:59:59.0Z</domain:exDate>
S:       <domain:authInfo>
S:         <domain:pw>secret</domain:pw>
S:       </domain:authInfo>
S:     </domain:infData>
S:   </resData>
S:   <extension>
S:     <auction:infData
S:       xmlns:auction="http://xmlns.tango-rs.net/epp/auction-1.0"
S:       xsi:schemaLocation="http://xmlns.tango-rs.net/epp/auction-1.0
S:         auction-1.0.xsd">
S:       <auction:bid currency="EUR">10000.00</auction:bid>
S:     </auction:infData>
S:   </extension>
S:   <trID>
S:     <clTRID>abc-00042</clTRID>
S:     <svTRID>ZYX-99958</svTRID>
S:   </trID>
S: </response>
S:</epp>
```

## 2.2. EPP <create> Command

### 2.2.1. Example <create> command:

```
C:<?xml version="1.0" encoding="UTF-8"?>
C:<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
C:  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
C:  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd">
C: <command>
C:   <create>
C:     <domain:create xmlns:domain="urn:ietf:params:xml:ns:domain-1.0"
C:       xsi:schemaLocation="urn:ietf:params:xml:ns:domain-1.0
C:         domain-1.0.xsd">
C:       <domain:name>example.nrw</domain:name>
C:       <domain:period unit="y">1</domain:period>
C:       <domain:ns>
C:         <domain:hostObj>ns1.example.net</domain:hostObj>
C:         <domain:hostObj>ns2.example.net</domain:hostObj>
C:       </domain:ns>
C:       <domain:registrar>abc123</domain:registrar>
C:       <domain:contact type="admin">def456</domain:contact>
C:       <domain:contact type="tech">ghi789</domain:contact>
C:       <domain:authInfo>
C:         <domain:pw>secret42</domain:pw>
C:       </domain:authInfo>
C:     </domain:create>
C:   </create>
C:   <extension>
C:     <auction:create
C:       xmlns:auction="http://xmlns.tango-rs.net/epp/auction-1.0"
C:       xsi:schemaLocation="http://xmlns.tango-rs.net/epp/auction-1.0
C:         auction-1.0.xsd">
C:       <auction:bid currency="EUR">5000.00</auction:bid>
C:     </auction:create>
C:   </extension>
C:   <clTRID>abc-00042</clTRID>
C: </command>
C:</epp>
```

## 2.3. EPP <update> Command

### 2.3.1. Example <update> command:

```
C:<?xml version="1.0" encoding="UTF-8"?>
C:<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
C:  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
C:  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd">
C: <command>
C:   <update>
C:     <domain:update xmlns:domain="urn:ietf:params:xml:ns:domain-1.0"
C:       xsi:schemaLocation="urn:ietf:params:xml:ns:domain-1.0
C:         domain-1.0.xsd">
C:       <domain:name>example.nrw</domain:name>
C:       <domain:add>
C:         <domain:ns>
C:           <domain:hostObj>ns3.example.net</domain:hostObj>
C:         </domain:ns>
C:       </domain:add>
C:     </domain:update>
C:   </update>
C: </command>
```

```
C:      </domain:add>
C:      <domain:rem>
C:          <domain:ns>
C:              <domain:hostObj>ns1.example.net</domain:hostObj>
C:          </domain:ns>
C:      </domain:rem>
C:  </domain:update>
C: </update>
C: <extension>
C:   <auction:update
C:     xmlns:auction="http://xmlns.tango-rs.net/epp/auction-1.0"
C:     xsi:schemaLocation="http://xmlns.tango-rs.net/epp/auction-1.0
C:       auction-1.0.xsd">
C:       <auction:bid currency="EUR">7500.00</auction:bid>
C:     </auction:update>
C:   </extension>
C:   <c1TRID>abc-00042</c1TRID>
C: </command>
C: </epp>
```