



Umler Web Services User Guide



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Table of Contents

| | |
|--|-----------|
| Overview | 1 |
| Production URLs..... | 1 |
| Equipment Transaction Service..... | 1 |
| SSL | 1 |
| Security Header | 1 |
| Equipment Query Service | 27 |
| Transaction Log Service (Component Support) | 31 |
| Equipment Transaction Log | 32 |
| Umler Web Services..... | 33 |
| Assign Equipment To Company Specific Group | 35 |
| Pool Assignment Service..... | 36 |
| Pool Header Update..... | 37 |
| Create Pool Header..... | 37 |
| Delete Pool Header..... | 39 |
| Modify Pool Header | 40 |
| Addition and Betterment – New..... | 41 |
| Addition and Betterment – Update..... | 44 |

Exhibits

| | |
|--|----|
| Exhibit 1 Equipment Add Request..... | 2 |
| Exhibit 2 Equipment Modify Request..... | 14 |
| Exhibit 3 Equipment AddBack Request..... | 16 |
| Exhibit 4 Equipment AddBack Details Request | 17 |
| Exhibit 5 Equipment Query Full View Request..... | 27 |
| Exhibit 6 Equipment Select Elements Request | 29 |
| Exhibit 7 Transaction Log Request..... | 31 |
| Exhibit 8 Equipment Transaction Log Request | 32 |
| Exhibit 9 Operation and Paramter Elements for Each Service | 33 |
| Exhibit 10 Assign Equipment to Company Specific Group..... | 35 |
| Exhibit 11 Pool Assignment..... | 36 |
| Exhibit 12 Create Pool Header..... | 37 |
| Exhibit 13 Delete Pool Header..... | 39 |
| Exhibit 14 Modify Pool Header | 40 |
| Exhibit 15 Addition and Betterment – New..... | 41 |
| Exhibit 16 Addition and Betterment – Update..... | 44 |

Overview

Umler Web Services include [Equipment Transaction Services](#) (Add, Modify, Delete, AddBack), [Equipment Query Services](#) (Select, Full) and an updated [Transaction Log Service](#). All the operations within each service are distinguished by the XML wrapper request corresponding to the service, e.g., **UmlerEquipmentAddRequest** for ECA and **UmlerEquipmentChangeRequest** for EC.

Production URLs

<https://services.railinc.com/EMISQueryServiceWeb/services/UmlerEquipmentQueryService>

https://services.railinc.com/RAILINC_EMIS_SERVICES/services/UmlerEquipmentService

Equipment Transaction Service

WSDL Umler Release Test URL

https://servicestst.railinc.com/RAILINC_EMIS_SERVICES/services/UmlerEquipmentService.wsdl

URL for Endpoint

https://servicestst.railinc.com/RAILINC_EMIS_SERVICES/services/UmlerEquipmentService

SSL

Use your browser to navigate to the WSDL Endpoint and install the certificate then using your browser export the certificate (**after downloading the certificate, the extension needs to be changed from .txt to .crt**) so you can import it into your runtime (e.g., using keytool for Java).

Security Header

Configure your runtime to insert the standard Oasis WSSE security header with a UsernameToken. Import the SSL certificate into your local computer store / keystore. Include a valid SSO user that has one of the following roles for your reporting mark:

- Umler Access for Query
- Umler Access for Maintenance
- Umler Access for Advanced Query

If you do not have a SSO user yet, register for a UAT user at <https://stage.public.railinc.com/>.

Register for a Prod user at <https://public.railinc.com/>.

It is recommended you use a separate user than your normal SSO user for this service.

Exhibit 1 Equipment Add Request

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:srcv="http://schemas.railinc.com/eq/umler/service/dynamic/equipmentservice"
xmlns:head="http://schemas.railinc.com/eq/umler/service/header"
xmlns:eq="http://schemas.railinc.com/eq/umler/equipment/dynamic"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Header>
    <wsse:Security soapenv:mustUnderstand="1" xmlns:wsse="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd">
      <wsse:UsernameToken>
        <wsse:Username>USERID</wsse:Username>
        <wsse:Password>PASSWORD</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
    <srcv:UmlerEquipmentAddRequest>
      <srcv:DocumentHeader>
        <head:Sender>
          <head:OrganizationContact>
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              <head:OrganizationIdentifier>RAIL</head:OrganizationIdentifier>
            </head:OrganizationIdentification>
          </head:OrganizationContact>
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        <head:Receiver>
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            <head:OrganizationIdentification>
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      <srcv:ServiceContext>
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    <eq:elementLabel>Coupler Code</eq:elementLabel>
    <eq:elementValue>FF205E</eq:elementValue>
    <eq:componentID>DRAFTSYS</eq:componentID>
    <eq:componentLocation>A</eq:componentLocation>
    <eq:parentComponentID>BASE</eq:parentComponentID>
    <eq:parentComponentLocation>1</eq:parentComponentLocation>
  </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
  <eq:componentElement>
    <eq:elementID>B058</eq:elementID>
    <eq:elementLabel>Coupler Style</eq:elementLabel>
    <eq:elementValue>P</eq:elementValue>
    <eq:componentID>DRAFTSYS</eq:componentID>
```

```
        <eq:componentLocation>A</eq:componentLocation>
        <eq:parentComponentID>BASE</eq:parentComponentID>
        <eq:parentComponentLocation>1</eq:parentComponentLocation>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>B073</eq:elementID>
        <eq:elementLabel>Draft Gear Type</eq:elementLabel>
        <eq:elementValue>S</eq:elementValue>
        <eq:componentID>DRAFTSYS</eq:componentID>
        <eq:componentLocation>A</eq:componentLocation>
        <eq:parentComponentID>BASE</eq:parentComponentID>
        <eq:parentComponentLocation>1</eq:parentComponentLocation>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>A057</eq:elementID>
        <eq:elementLabel>Coupler Code</eq:elementLabel>
        <eq:elementValue>E60CHT</eq:elementValue>
        <eq:componentID>DRAFTSYS</eq:componentID>
        <eq:componentLocation>B</eq:componentLocation>
        <eq:parentComponentID>BASE</eq:parentComponentID>
        <eq:parentComponentLocation>1</eq:parentComponentLocation>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>B058</eq:elementID>
        <eq:elementLabel>Coupler Style</eq:elementLabel>
        <eq:elementValue>P</eq:elementValue>
        <eq:componentID>DRAFTSYS</eq:componentID>
        <eq:componentLocation>B</eq:componentLocation>
        <eq:parentComponentID>BASE</eq:parentComponentID>
        <eq:parentComponentLocation>1</eq:parentComponentLocation>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>A035</eq:elementID>
        <eq:elementLabel>Equipment Builder</eq:elementLabel>
        <eq:elementValue>GUN4</eq:elementValue>
        <eq:componentID>BASE</eq:componentID>
        <eq:componentLocation>1</eq:componentLocation>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>B073</eq:elementID>
        <eq:elementLabel>Draft Gear Type</eq:elementLabel>
        <eq:elementValue>S</eq:elementValue>
        <eq:componentID>DRAFTSYS</eq:componentID>
        <eq:componentLocation>B</eq:componentLocation>
        <eq:parentComponentID>BASE</eq:parentComponentID>
        <eq:parentComponentLocation>1</eq:parentComponentLocation>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>B020</eq:elementID>
        <eq:elementLabel>Axles Spacing Distance</eq:elementLabel>
        <eq:elementValue>60</eq:elementValue>
```

```
        <eq:componentID>AXLESPACE</eq:componentID>
        <eq:componentLocation>01</eq:componentLocation>
        <eq:parentComponentID>TRUCKSYS</eq:parentComponentID>
        <eq:parentComponentLocation>B</eq:parentComponentLocation>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>B252</eq:elementID>
        <eq:elementLabel>Truck Axle Count</eq:elementLabel>
        <eq:elementValue>2</eq:elementValue>
        <eq:componentID>TRUCK</eq:componentID>
        <eq:componentLocation>B</eq:componentLocation>
        <eq:parentComponentID>TRUCKSYS</eq:parentComponentID>
        <eq:parentComponentLocation>B</eq:parentComponentLocation>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>A147</eq:elementID>
        <eq:elementLabel>Journal Size</eq:elementLabel>
        <eq:elementValue>E</eq:elementValue>
        <eq:componentID>TRUCK</eq:componentID>
        <eq:componentLocation>B</eq:componentLocation>
        <eq:parentComponentID>TRUCKSYS</eq:parentComponentID>
        <eq:parentComponentLocation>B</eq:parentComponentLocation>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>A294</eq:elementID>
        <eq:elementLabel>Wheel Diameter</eq:elementLabel>
        <eq:elementValue>36</eq:elementValue>
        <eq:componentID>TRUCK</eq:componentID>
        <eq:componentLocation>B</eq:componentLocation>
        <eq:parentComponentID>TRUCKSYS</eq:parentComponentID>
        <eq:parentComponentLocation>B</eq:parentComponentLocation>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>B020</eq:elementID>
        <eq:elementLabel>Axles Spacing Distance</eq:elementLabel>
        <eq:elementValue>60</eq:elementValue>
        <eq:componentID>AXLESPACE</eq:componentID>
        <eq:componentLocation>02</eq:componentLocation>
        <eq:parentComponentID>TRUCKSYS</eq:parentComponentID>
        <eq:parentComponentLocation>A</eq:parentComponentLocation>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>B252</eq:elementID>
        <eq:elementLabel>Truck Axle Count</eq:elementLabel>
        <eq:elementValue>2</eq:elementValue>
        <eq:componentID>TRUCK</eq:componentID>
        <eq:componentLocation>A</eq:componentLocation>
        <eq:parentComponentID>TRUCKSYS</eq:parentComponentID>
        <eq:parentComponentLocation>A</eq:parentComponentLocation>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
```

```
<eq:elementID>A147</eq:elementID>
<eq:elementLabel>Journal Size</eq:elementLabel>
<eq:elementValue>E</eq:elementValue>
<eq:componentID>TRUCK</eq:componentID>
<eq:componentLocation>A</eq:componentLocation>
<eq:parentComponentID>TRUCKSYS</eq:parentComponentID>
<eq:parentComponentLocation>A</eq:parentComponentLocation>
</eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponent">
  <eq:addComponent>
    <eq:componentID>AXLESPACE</eq:componentID>
    <eq:componentLocation>02</eq:componentLocation>
    <eq:parentComponentID>TRUCKSYS</eq:parentComponentID>
    <eq:parentComponentLocation>A</eq:parentComponentLocation>
  </eq:addComponent>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
  <eq:componentElement>
    <eq:elementID>A294</eq:elementID>
    <eq:elementLabel>Wheel Diameter</eq:elementLabel>
    <eq:elementValue>36</eq:elementValue>
    <eq:componentID>TRUCK</eq:componentID>
    <eq:componentLocation>A</eq:componentLocation>
    <eq:parentComponentID>TRUCKSYS</eq:parentComponentID>
    <eq:parentComponentLocation>A</eq:parentComponentLocation>
  </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponent">
  <eq:addComponent>
    <eq:componentID>DRAFTSYS</eq:componentID>
    <eq:componentLocation>A</eq:componentLocation>
    <eq:parentComponentID>BASE</eq:parentComponentID>
    <eq:parentComponentLocation>1</eq:parentComponentLocation>
  </eq:addComponent>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponent">
  <eq:addComponent>
    <eq:componentID>DRAFTSYS</eq:componentID>
    <eq:componentLocation>B</eq:componentLocation>
    <eq:parentComponentID>BASE</eq:parentComponentID>
    <eq:parentComponentLocation>1</eq:parentComponentLocation>
  </eq:addComponent>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponent">
  <eq:addComponent>
    <eq:componentID>TRUCKSYS</eq:componentID>
    <eq:componentLocation>B</eq:componentLocation>
    <eq:parentComponentID>BASE</eq:parentComponentID>
    <eq:parentComponentLocation>1</eq:parentComponentLocation>
  </eq:addComponent>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponent">
  <eq:addComponent>
    <eq:componentID>TRUCKSYS</eq:componentID>
    <eq:componentLocation>A</eq:componentLocation>
    <eq:parentComponentID>BASE</eq:parentComponentID>
    <eq:parentComponentLocation>1</eq:parentComponentLocation>
  </eq:addComponent>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponent">
  <eq:addComponent>
    <eq:componentID>TRUCK</eq:componentID>
```

```
        <eq:componentLocation>B</eq:componentLocation>
        <eq:parentComponentID>TRUCKSYS</eq:parentComponentID>
        <eq:parentComponentLocation>B</eq:parentComponentLocation>
    </eq:addComponent>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponent">
    <eq:addComponent>
        <eq:componentID>TRUCK</eq:componentID>
        <eq:componentLocation>A</eq:componentLocation>
        <eq:parentComponentID>TRUCKSYS</eq:parentComponentID>
        <eq:parentComponentLocation>A</eq:parentComponentLocation>
    </eq:addComponent>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponent">
    <eq:addComponent>
        <eq:componentID>AXLESPACE</eq:componentID>
        <eq:componentLocation>01</eq:componentLocation>
        <eq:parentComponentID>TRUCKSYS</eq:parentComponentID>
        <eq:parentComponentLocation>B</eq:parentComponentLocation>
    </eq:addComponent>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>A184</eq:elementID>
        <eq:elementLabel>Original Cost</eq:elementLabel>
        <eq:elementValue>10000</eq:elementValue>
        <eq:componentID>BASE</eq:componentID>
        <eq:componentLocation>1</eq:componentLocation>
    </eq:componentElement>
</eq:AddOperation>
</eq:EquipmentUnitCharacteristics>
</srvc:EquipmentUnit>
</srvc:UmlerEquipmentAddRequest>
</soapenv:Body>
</soapenv:Envelope>
```

Exhibit 2 Equipment Modify Request

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
  <soapenv:Header>
    <wsse:Security soapenv:mustUnderstand="1" xmlns:wsse="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd">
      <wsse:UsernameToken>
        <wsse:Username>USERID</wsse:Username>
        <wsse:Password>PASSWORD</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
    <p132:UmlerEquipmentChangeRequest
xmlns:p132="http://schemas.railinc.com/eq/umler/service/dynamic/equipmentservice">
      <p132:DocumentHeader>
        <p566:Sender xmlns:p566="http://schemas.railinc.com/eq/umler/service/header">
          <p566:OrganizationContact>
            <p566:OrganizationIdentification>
              <p566:OrganizationIdentifier>RAIL</p566:OrganizationIdentifier>
            </p566:OrganizationIdentification>
          </p566:OrganizationContact>
        </p566:Sender>
        <p566:Receiver xmlns:p566="http://schemas.railinc.com/eq/umler/service/header">
          <p566:OrganizationContact>
            <p566:OrganizationIdentification>
              <p566:OrganizationIdentifier>RRDC</p566:OrganizationIdentifier>
            </p566:OrganizationIdentification>
          </p566:OrganizationContact>
        </p566:Receiver>
        <p566:DocumentDetail
xmlns:p566="http://schemas.railinc.com/eq/umler/service/header">
          <p566:CreateDateAndTime>2009-03-28T15:08:44.383Z</p566:CreateDateAndTime>
          <p566:InstanceIdentifier>1238252924383</p566:InstanceIdentifier>
        </p566:DocumentDetail>
      </p132:DocumentHeader>
      <p132:ServiceContext>
        <p566:CustomerIdentity
xmlns:p566="http://schemas.railinc.com/eq/umler/service/header">
          <p566:Customer>
            <p566:SCAC>RAIL</p566:SCAC>
          </p566:Customer>
        </p566:CustomerIdentity>
        <p566:SubmitMode xmlns:p566="http://schemas.railinc.com/eq/umler/service/header">
          <p566:SubmitModeType>SUBMIT</p566:SubmitModeType>
        </p566:SubmitMode>
        <p566:ClientContext
xmlns:p566="http://schemas.railinc.com/eq/umler/service/header">
          <p566:TraceID>109.2.28.10.8.44.</p566:TraceID>
          <p566:EnvironmentType>TEST</p566:EnvironmentType>
        </p566:ClientContext>
      </p132:ServiceContext>
      <p132:EquipmentUnit>
        <p717:EquipmentUnitIdentifier
xmlns:p717="http://schemas.railinc.com/eq/umler/equipment/dynamic">
          <p717:EquipmentInitial>RAIL</p717:EquipmentInitial>
          <p717:EquipmentNumber>0000900301</p717:EquipmentNumber>
        </p717:EquipmentUnitIdentifier>
        <p717:EquipmentUnitCharacteristics
xmlns:p717="http://schemas.railinc.com/eq/umler/equipment/dynamic">
          <p717:ECCOperation xsi:type="p717:ChangeComponentElement">
```



```
        <p717:componentElement>
          <p717:elementID>B030</p717:elementID>
          <p717:elementValue>115</p717:elementValue>
          <p717:componentID>BASE</p717:componentID>
          <p717:componentLocation>1</p717:componentLocation>
        </p717:componentElement>
      </p717:ECCOperation>
    </p717:EquipmentUnitCharacteristics>
  </p132:EquipmentUnit>
</p132:UmlerEquipmentChangeRequest>
</soapenv:Body>
</soapenv:Envelope>
```

Exhibit 3 Equipment AddBack Request

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:equ="http://schemas.railinc.com/eq/umler/service/dynamic/equipmentservice"
xmlns:head="http://schemas.railinc.com/eq/umler/service/header"
xmlns:dyn="http://schemas.railinc.com/eq/umler/equipment/dynamic">
  <soapenv:Header>
    <wsse:Security soapenv:mustUnderstand="1" xmlns:wsse="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss- wssecurity-secext-1.0.xsd">
      <wsse:UsernameToken>
        <wsse:Username>USERID</wsse:Username>
        <wsse:Password>PASSWORD</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
    <equ:UmlerEquipmentAddBackRequest>
      <equ:DocumentHeader>
        <head:Sender>
          <head:OrganizationContact>
            <head:OrganizationIdentification>
              <head:OrganizationIdentifier>AARE</head:OrganizationIdentifier>
            </head:OrganizationIdentification>
          </head:OrganizationContact>
        </head:Sender>
        <head:Receiver>
          <head:OrganizationContact>
            <head:OrganizationIdentification>
              <head:OrganizationIdentifier>RAIL</head:OrganizationIdentifier>
            </head:OrganizationIdentification>
          </head:OrganizationContact>
        </head:Receiver>
        <head:DocumentDetail>
          <head:CreateDateAndTime>2001-12-31T12:00:00</head:CreateDateAndTime>
          <head:InstanceIdentifier>22323</head:InstanceIdentifier>
        </head:DocumentDetail>
      </equ:DocumentHeader>
      <equ:ServiceContext>
        <head:CustomerIdentity>
          <head:Customer>
            <head:SCAC>AARE</head:SCAC>
          </head:Customer>
        </head:CustomerIdentity>
        <head:SubmitMode>
          <head:SubmitModeType>VALIDATE</head:SubmitModeType>
        </head:SubmitMode>
      </equ:ServiceContext>
      <!--1 to 50 repetitions-->
      <equ:EquipmentUnit>
        <dyn:EquipmentUnitIdentifier>
          <dyn:EquipmentInitial>RAIL</dyn:EquipmentInitial>
          <dyn:EquipmentNumber>0000999993</dyn:EquipmentNumber>
        </dyn:EquipmentUnitIdentifier>
        <dyn:BuiltDate>20001001</dyn:BuiltDate>
      </equ:EquipmentUnit>
    </equ:UmlerEquipmentAddBackRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

Exhibit 4 Equipment AddBack Details Request

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:srcv="http://schemas.railinc.com/eq/umler/service/dynamic/equipmentservice"
xmlns:head="http://schemas.railinc.com/eq/umler/service/header"
xmlns:eq="http://schemas.railinc.com/eq/umler/equipment/dynamic"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Header>
    <wsse:Security soapenv:mustUnderstand="1" xmlns:wsse="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd">
      <wsse:UsernameToken>
        <wsse:Username>USERID</wsse:Username>
        <wsse:Password>PASSWORD</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
    <srcv:UmlerEquipmentAddBackDetailsRequest>
      <srcv:DocumentHeader>
        <head:Sender>
          <head:OrganizationContact>
            <head:OrganizationIdentification>
              <head:OrganizationIdentifier>AARE</head:OrganizationIdentifier>
            </head:OrganizationIdentification>
          </head:OrganizationContact>
        </head:Sender>
        <head:Receiver>
          <head:OrganizationContact>
            <head:OrganizationIdentification>
              <head:OrganizationIdentifier>RRDC</head:OrganizationIdentifier>
            </head:OrganizationIdentification>
          </head:OrganizationContact>
        </head:Receiver>
        <head:DocumentDetail>
          <head:CreateDateAndTime>2001-12-31T12:00:00</head:CreateDateAndTime>
          <head:InstanceIdentifier>4565454</head:InstanceIdentifier>
        </head:DocumentDetail>
      </srcv:DocumentHeader>
      <srcv:ServiceContext>
        <head:CustomerIdentity>
          <head:Customer>
            <head:SCAC>AARE</head:SCAC>
          </head:Customer>
        </head:CustomerIdentity>
        <head:SubmitMode>
          <head:SubmitModeType>SUBMIT</head:SubmitModeType>
        </head:SubmitMode>
        <head:ClientContext>
          <head:TraceID>1234332</head:TraceID>
          <head:EnvironmentType>PROD</head:EnvironmentType>
        </head:ClientContext>
      </srcv:ServiceContext>
      <srcv:EquipmentUnit>
        <eq:EquipmentUnitIdentifier>
          <eq:EquipmentInitial>RAIL</eq:EquipmentInitial>
          <eq:EquipmentNumber>0000999992</eq:EquipmentNumber>
        </eq:EquipmentUnitIdentifier>
        <eq:EquipmentGroup>BOXC</eq:EquipmentGroup>
        <eq:BuiltDate>20001001</eq:BuiltDate>
        <eq:EquipmentUnitCharacteristics>
          <eq:AddOperation xsi:type="eq:AddComponentElement">
            <eq:componentElement>
              <eq:elementID>0002</eq:elementID>
              <eq:elementLabel>Equipment Group</eq:elementLabel>
            </eq:componentElement>
          </eq:AddOperation>
        </eq:EquipmentUnitCharacteristics>
      </srcv:EquipmentUnit>
    </srcv:UmlerEquipmentAddBackDetailsRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

```
        <eq:elementValue>BOXC</eq:elementValue>
        <eq:componentID>BASE</eq:componentID>
        <eq:componentLocation>1</eq:componentLocation>
        <eq:parentComponentID/>
        <eq:parentComponentLocation/>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>A024</eq:elementID>
        <eq:elementLabel>Axle Count</eq:elementLabel>
        <eq:elementValue>5</eq:elementValue>
        <eq:componentID>BASE</eq:componentID>
        <eq:componentLocation>1</eq:componentLocation>
        <eq:parentComponentID/>
        <eq:parentComponentLocation/>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>A030</eq:elementID>
        <eq:elementLabel>Body Material</eq:elementLabel>
        <eq:elementValue>01</eq:elementValue>
        <eq:componentID>BASE</eq:componentID>
        <eq:componentLocation>1</eq:componentLocation>
        <eq:parentComponentID/>
        <eq:parentComponentLocation/>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>A046</eq:elementID>
        <eq:elementLabel>Plate Code</eq:elementLabel>
        <eq:elementValue>E</eq:elementValue>
        <eq:componentID>BASE</eq:componentID>
        <eq:componentLocation>1</eq:componentLocation>
        <eq:parentComponentID/>
        <eq:parentComponentLocation/>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>A135</eq:elementID>
        <eq:elementLabel>Inside Length/Inside Platform Length</eq:elementLabel>
        <eq:elementValue>720</eq:elementValue>
        <eq:componentID>BASE</eq:componentID>
        <eq:componentLocation>1</eq:componentLocation>
        <eq:parentComponentID/>
        <eq:parentComponentLocation/>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>A138</eq:elementID>
        <eq:elementLabel>Inside Width/Inside Platform Width</eq:elementLabel>
        <eq:elementValue>116</eq:elementValue>
        <eq:componentID>BASE</eq:componentID>
        <eq:componentLocation>1</eq:componentLocation>
        <eq:parentComponentID/>
        <eq:parentComponentLocation/>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
```

```
<eq:componentElement>
  <eq:elementID>A185</eq:elementID>
  <eq:elementLabel>Outside Extreme Height</eq:elementLabel>
  <eq:elementValue>165</eq:elementValue>
  <eq:componentID>BASE</eq:componentID>
  <eq:componentLocation>1</eq:componentLocation>
  <eq:parentComponentID/>
  <eq:parentComponentLocation/>
</eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
  <eq:componentElement>
    <eq:elementID>A186</eq:elementID>
    <eq:elementLabel>Outside Extreme Width</eq:elementLabel>
    <eq:elementValue>128</eq:elementValue>
    <eq:componentID>BASE</eq:componentID>
    <eq:componentLocation>1</eq:componentLocation>
    <eq:parentComponentID/>
    <eq:parentComponentLocation/>
  </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
  <eq:componentElement>
    <eq:elementID>A187</eq:elementID>
    <eq:elementLabel>Outside Height Extr Width</eq:elementLabel>
    <eq:elementValue>132</eq:elementValue>
    <eq:componentID>BASE</eq:componentID>
    <eq:componentLocation>1</eq:componentLocation>
    <eq:parentComponentID/>
    <eq:parentComponentLocation/>
  </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
  <eq:componentElement>
    <eq:elementID>A193</eq:elementID>
    <eq:elementLabel>Outside Upper Eaves Height</eq:elementLabel>
    <eq:elementValue>157</eq:elementValue>
    <eq:componentID>BASE</eq:componentID>
    <eq:componentLocation>1</eq:componentLocation>
    <eq:parentComponentID/>
    <eq:parentComponentLocation/>
  </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
  <eq:componentElement>
    <eq:elementID>A238</eq:elementID>
    <eq:elementLabel>Side Door Height</eq:elementLabel>
    <eq:elementValue>144</eq:elementValue>
    <eq:componentID>BASE</eq:componentID>
    <eq:componentLocation>1</eq:componentLocation>
    <eq:parentComponentID/>
    <eq:parentComponentLocation/>
  </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
  <eq:componentElement>
    <eq:elementID>A240</eq:elementID>
    <eq:elementLabel>Side Door Width</eq:elementLabel>
    <eq:elementValue>120</eq:elementValue>
    <eq:componentID>BASE</eq:componentID>
    <eq:componentLocation>1</eq:componentLocation>
    <eq:parentComponentID/>
    <eq:parentComponentLocation/>
  </eq:componentElement>
</eq>AddOperation>
```

```
</eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
  <eq:componentElement>
    <eq:elementID>A247</eq:elementID>
    <eq:elementLabel>Star Code</eq:elementLabel>
    <eq:elementValue>S</eq:elementValue>
    <eq:componentID>BASE</eq:componentID>
    <eq:componentLocation>1</eq:componentLocation>
    <eq:parentComponentID/>
    <eq:parentComponentLocation/>
  </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
  <eq:componentElement>
    <eq:elementID>A259</eq:elementID>
    <eq:elementLabel>Tare Weight</eq:elementLabel>
    <eq:elementValue>80000</eq:elementValue>
    <eq:componentID>BASE</eq:componentID>
    <eq:componentLocation>1</eq:componentLocation>
    <eq:parentComponentID/>
    <eq:parentComponentLocation/>
  </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
  <eq:componentElement>
    <eq:elementID>A266</eq:elementID>
    <eq:elementLabel>Gross Rail Load/Gross Weight</eq:elementLabel>
    <eq:elementValue>160000</eq:elementValue>
    <eq:componentID>BASE</eq:componentID>
    <eq:componentLocation>1</eq:componentLocation>
    <eq:parentComponentID/>
    <eq:parentComponentLocation/>
  </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
  <eq:componentElement>
    <eq:elementID>A276</eq:elementID>
    <eq:elementLabel>Truck Center Length</eq:elementLabel>
    <eq:elementValue>488</eq:elementValue>
    <eq:componentID>BASE</eq:componentID>
    <eq:componentLocation>1</eq:componentLocation>
    <eq:parentComponentID/>
    <eq:parentComponentLocation/>
  </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
  <eq:componentElement>
    <eq:elementID>A289</eq:elementID>
    <eq:elementLabel>Weighing Status</eq:elementLabel>
    <eq:elementValue>E</eq:elementValue>
    <eq:componentID>BASE</eq:componentID>
    <eq:componentLocation>1</eq:componentLocation>
    <eq:parentComponentID/>
    <eq:parentComponentLocation/>
  </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
  <eq:componentElement>
    <eq:elementID>B026</eq:elementID>
    <eq:elementLabel>Brake Shoe Type</eq:elementLabel>
    <eq:elementValue>H</eq:elementValue>
    <eq:componentID>BASE</eq:componentID>
```

```
        <eq:componentLocation>1</eq:componentLocation>
        <eq:parentComponentID/>
        <eq:parentComponentLocation/>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>B191</eq:elementID>
        <eq:elementLabel>Wheel Bearing Type</eq:elementLabel>
        <eq:elementValue>P</eq:elementValue>
        <eq:componentID>BASE</eq:componentID>
        <eq:componentLocation>1</eq:componentLocation>
        <eq:parentComponentID/>
        <eq:parentComponentLocation/>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>B192</eq:elementID>
        <eq:elementLabel>Box Side Door Orientation</eq:elementLabel>
        <eq:elementValue>S</eq:elementValue>
        <eq:componentID>BASE</eq:componentID>
        <eq:componentLocation>1</eq:componentLocation>
        <eq:parentComponentID/>
        <eq:parentComponentLocation/>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>B193</eq:elementID>
        <eq:elementLabel>Box Side Door Type</eq:elementLabel>
        <eq:elementValue>01</eq:elementValue>
        <eq:componentID>BASE</eq:componentID>
        <eq:componentLocation>1</eq:componentLocation>
        <eq:parentComponentID/>
        <eq:parentComponentLocation/>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>BLDT</eq:elementID>
        <eq:elementLabel>Built Date (Tank Underframe)</eq:elementLabel>
        <eq:elementValue>20001001</eq:elementValue>
        <eq:componentID>BASE</eq:componentID>
        <eq:componentLocation>1</eq:componentLocation>
        <eq:parentComponentID/>
        <eq:parentComponentLocation/>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>LDLT</eq:elementID>
        <eq:elementLabel>Load Limit</eq:elementLabel>
        <eq:elementValue>80000</eq:elementValue>
        <eq:componentID>BASE</eq:componentID>
        <eq:componentLocation>1</eq:componentLocation>
        <eq:parentComponentID/>
        <eq:parentComponentLocation/>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>OSLG</eq:elementID>
```

```
        <eq:elementLabel>Outside Length</eq:elementLabel>
        <eq:elementValue>834</eq:elementValue>
        <eq:componentID>BASE</eq:componentID>
        <eq:componentLocation>1</eq:componentLocation>
        <eq:parentComponentID/>
        <eq:parentComponentLocation/>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>UMMD</eq:elementID>
        <eq:elementLabel>Mechanical Designation</eq:elementLabel>
        <eq:elementValue>RBL</eq:elementValue>
        <eq:componentID>BASE</eq:componentID>
        <eq:componentLocation>1</eq:componentLocation>
        <eq:parentComponentID/>
        <eq:parentComponentLocation/>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>UMOW</eq:elementID>
        <eq:elementLabel>Umler Owner</eq:elementLabel>
        <eq:elementValue>RAIL</eq:elementValue>
        <eq:componentID>BASE</eq:componentID>
        <eq:componentLocation>1</eq:componentLocation>
        <eq:parentComponentID/>
        <eq:parentComponentLocation/>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>A096</eq:elementID>
        <eq:elementLabel>Umler Owner</eq:elementLabel>
        <eq:elementValue>E</eq:elementValue>
        <eq:componentID>BASE</eq:componentID>
        <eq:componentLocation>1</eq:componentLocation>
        <eq:parentComponentID/>
        <eq:parentComponentLocation/>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>USCD</eq:elementID>
        <eq:elementLabel>Status Code</eq:elementLabel>
        <eq:elementValue>A</eq:elementValue>
        <eq:componentID>BASE</eq:componentID>
        <eq:componentLocation>1</eq:componentLocation>
        <eq:parentComponentID/>
        <eq:parentComponentLocation/>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>A057</eq:elementID>
        <eq:elementLabel>Coupler Code</eq:elementLabel>
        <eq:elementValue>E60CHT</eq:elementValue>
        <eq:componentID>DRAFTSYS</eq:componentID>
        <eq:componentLocation>A</eq:componentLocation>
        <eq:parentComponentID>BASE</eq:parentComponentID>
        <eq:parentComponentLocation>1</eq:parentComponentLocation>
    </eq:componentElement>
</eq:AddOperation>
```



```
<eq:AddOperation xsi:type="eq:AddComponentElement">
  <eq:componentElement>
    <eq:elementID>B058</eq:elementID>
    <eq:elementLabel>Coupler Style</eq:elementLabel>
    <eq:elementValue>P</eq:elementValue>
    <eq:componentID>DRAFTSYS</eq:componentID>
    <eq:componentLocation>A</eq:componentLocation>
    <eq:parentComponentID>BASE</eq:parentComponentID>
    <eq:parentComponentLocation>1</eq:parentComponentLocation>
  </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
  <eq:componentElement>
    <eq:elementID>B073</eq:elementID>
    <eq:elementLabel>Draft Gear Type</eq:elementLabel>
    <eq:elementValue>S</eq:elementValue>
    <eq:componentID>DRAFTSYS</eq:componentID>
    <eq:componentLocation>A</eq:componentLocation>
    <eq:parentComponentID>BASE</eq:parentComponentID>
    <eq:parentComponentLocation>1</eq:parentComponentLocation>
  </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
  <eq:componentElement>
    <eq:elementID>A057</eq:elementID>
    <eq:elementLabel>Coupler Code</eq:elementLabel>
    <eq:elementValue>E60CHT</eq:elementValue>
    <eq:componentID>DRAFTSYS</eq:componentID>
    <eq:componentLocation>B</eq:componentLocation>
    <eq:parentComponentID>BASE</eq:parentComponentID>
    <eq:parentComponentLocation>1</eq:parentComponentLocation>
  </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
  <eq:componentElement>
    <eq:elementID>B058</eq:elementID>
    <eq:elementLabel>Coupler Style</eq:elementLabel>
    <eq:elementValue>P</eq:elementValue>
    <eq:componentID>DRAFTSYS</eq:componentID>
    <eq:componentLocation>B</eq:componentLocation>
    <eq:parentComponentID>BASE</eq:parentComponentID>
    <eq:parentComponentLocation>1</eq:parentComponentLocation>
  </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
  <eq:componentElement>
    <eq:elementID>B073</eq:elementID>
    <eq:elementLabel>Draft Gear Type</eq:elementLabel>
    <eq:elementValue>S</eq:elementValue>
    <eq:componentID>DRAFTSYS</eq:componentID>
    <eq:componentLocation>B</eq:componentLocation>
    <eq:parentComponentID>BASE</eq:parentComponentID>
    <eq:parentComponentLocation>1</eq:parentComponentLocation>
  </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
  <eq:componentElement>
    <eq:elementID>B020</eq:elementID>
    <eq:elementLabel>Axles Spacing Distance</eq:elementLabel>
    <eq:elementValue>60</eq:elementValue>
    <eq:componentID>AXLESPACE</eq:componentID>
    <eq:componentLocation>01</eq:componentLocation>
    <eq:parentComponentID>TRUCKSYS</eq:parentComponentID>
```

```

        <eq:parentComponentLocation>B</eq:parentComponentLocation>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>A147</eq:elementID>
        <eq:elementLabel>Journal Size</eq:elementLabel>
        <eq:elementValue>E</eq:elementValue>
        <eq:componentID>TRUCK</eq:componentID>
        <eq:componentLocation>B</eq:componentLocation>
        <eq:parentComponentID>TRUCKSYS</eq:parentComponentID>
        <eq:parentComponentLocation>B</eq:parentComponentLocation>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>A294</eq:elementID>
        <eq:elementLabel>Wheel Diameter</eq:elementLabel>
        <eq:elementValue>36</eq:elementValue>
        <eq:componentID>TRUCK</eq:componentID>
        <eq:componentLocation>B</eq:componentLocation>
        <eq:parentComponentID>TRUCKSYS</eq:parentComponentID>
        <eq:parentComponentLocation>B</eq:parentComponentLocation>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>B020</eq:elementID>
        <eq:elementLabel>Axles Spacing Distance</eq:elementLabel>
        <eq:elementValue>60</eq:elementValue>
        <eq:componentID>AXLESPACE</eq:componentID>
        <eq:componentLocation>02</eq:componentLocation>
        <eq:parentComponentID>TRUCKSYS</eq:parentComponentID>
        <eq:parentComponentLocation>A</eq:parentComponentLocation>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>A147</eq:elementID>
        <eq:elementLabel>Journal Size</eq:elementLabel>
        <eq:elementValue>E</eq:elementValue>
        <eq:componentID>TRUCK</eq:componentID>
        <eq:componentLocation>A</eq:componentLocation>
        <eq:parentComponentID>TRUCKSYS</eq:parentComponentID>
        <eq:parentComponentLocation>A</eq:parentComponentLocation>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponent">
    <eq:addComponent>
        <eq:componentID>AXLESPACE</eq:componentID>
        <eq:componentLocation>02</eq:componentLocation>
        <eq:parentComponentID>TRUCKSYS</eq:parentComponentID>
        <eq:parentComponentLocation>A</eq:parentComponentLocation>
    </eq:addComponent>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>A294</eq:elementID>
        <eq:elementLabel>Wheel Diameter</eq:elementLabel>
        <eq:elementValue>36</eq:elementValue>
        <eq:componentID>TRUCK</eq:componentID>
        <eq:componentLocation>A</eq:componentLocation>
        <eq:parentComponentID>TRUCKSYS</eq:parentComponentID>

```

```
        <eq:parentComponentLocation>A</eq:parentComponentLocation>
    </eq:componentElement>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponent">
    <eq:addComponent>
        <eq:componentID>DRAFTSYS</eq:componentID>
        <eq:componentLocation>A</eq:componentLocation>
        <eq:parentComponentID>BASE</eq:parentComponentID>
        <eq:parentComponentLocation>1</eq:parentComponentLocation>
    </eq:addComponent>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponent">
    <eq:addComponent>
        <eq:componentID>DRAFTSYS</eq:componentID>
        <eq:componentLocation>B</eq:componentLocation>
        <eq:parentComponentID>BASE</eq:parentComponentID>
        <eq:parentComponentLocation>1</eq:parentComponentLocation>
    </eq:addComponent>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponent">
    <eq:addComponent>
        <eq:componentID>TRUCKSYS</eq:componentID>
        <eq:componentLocation>B</eq:componentLocation>
        <eq:parentComponentID>BASE</eq:parentComponentID>
        <eq:parentComponentLocation>1</eq:parentComponentLocation>
    </eq:addComponent>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponent">
    <eq:addComponent>
        <eq:componentID>TRUCKSYS</eq:componentID>
        <eq:componentLocation>A</eq:componentLocation>
        <eq:parentComponentID>BASE</eq:parentComponentID>
        <eq:parentComponentLocation>1</eq:parentComponentLocation>
    </eq:addComponent>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponent">
    <eq:addComponent>
        <eq:componentID>TRUCK</eq:componentID>
        <eq:componentLocation>B</eq:componentLocation>
        <eq:parentComponentID>TRUCKSYS</eq:parentComponentID>
        <eq:parentComponentLocation>B</eq:parentComponentLocation>
    </eq:addComponent>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponent">
    <eq:addComponent>
        <eq:componentID>TRUCK</eq:componentID>
        <eq:componentLocation>A</eq:componentLocation>
        <eq:parentComponentID>TRUCKSYS</eq:parentComponentID>
        <eq:parentComponentLocation>A</eq:parentComponentLocation>
    </eq:addComponent>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponent">
    <eq:addComponent>
        <eq:componentID>AXLESPACE</eq:componentID>
        <eq:componentLocation>01</eq:componentLocation>
        <eq:parentComponentID>TRUCKSYS</eq:parentComponentID>
        <eq:parentComponentLocation>B</eq:parentComponentLocation>
    </eq:addComponent>
</eq:AddOperation>
<eq:AddOperation xsi:type="eq:AddComponentElement">
    <eq:componentElement>
        <eq:elementID>A184</eq:elementID>
        <eq:elementValue>10000</eq:elementValue>
    </eq:componentElement>
</eq:AddOperation>
```

```
        <eq:componentID>BASE</eq:componentID>
        <eq:componentLocation>1</eq:componentLocation>
    </eq:componentElement>
</eq:AddOperation>
    </eq:EquipmentUnitCharacteristics>
</srvc:EquipmentUnit>
</srvc:UmlerEquipmentAddBackDetailsRequest>
</soapenv:Body>
</soapenv:Envelope>
```

Equipment Query Service

WSDL Umler Release Test URL

<https://servicestst.railinc.com/EMISQueryServiceWeb/services/UmlerEquipmentQueryService.wsdl>

URL for Endpoint

<https://servicestst.railinc.com/EMISQueryServiceWeb/services/UmlerEquipmentQueryService>

Exhibit 5 Equipment Query Full View Request

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:equ="http://schemas.railinc.com/eq/umler/2020R1V1/equipmentfullviewrequest"
xmlns:head="http://schemas.railinc.com/eq/umler/2020R1V1/header"
xmlns:equ1="http://schemas.railinc.com/eq/umler/2020R1V1/equipment">
  <soapenv:Header>
    <wsse:Security soapenv:mustUnderstand="1" xmlns:wsse="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd">
      <wsse:UsernameToken>
        <wsse:Username>USERID</wsse:Username>
        <wsse:Password>PASSWORD</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
    <equ:EquipmentQueryFullViewRequest>
      <equ:DocumentHeader>
        <head:Sender>
          <head:OrganizationContact>
            <head:OrganizationIdentification>
              <head:OrganizationName>AARE</head:OrganizationName>
              <head:OrganizationIdentifier>AARE</head:OrganizationIdentifier>
            </head:OrganizationIdentification>
          </head:OrganizationContact>
          <head:IndividualContact>
            <head:IndividualLocation>
              <head:ElectronicLocation>
                <head:EmailAddress>?</head:EmailAddress>
              </head:ElectronicLocation>
              <head:Telephone>
                <head:TelephoneNumber>?</head:TelephoneNumber>
              </head:Telephone>
            </head:IndividualLocation>
          </head:IndividualContact>
        </head:Sender>
        <head:Receiver>
          <head:OrganizationContact>
            <head:OrganizationIdentification>
              <head:OrganizationName>RAIL</head:OrganizationName>
              <head:OrganizationIdentifier>RAIL</head:OrganizationIdentifier>
            </head:OrganizationIdentification>
          </head:OrganizationContact>
          <head:IndividualContact>
            <head:IndividualLocation>
              <head:ElectronicLocation>
                <head:EmailAddress>?</head:EmailAddress>
              </head:ElectronicLocation>
              <head:Telephone>
                <head:TelephoneNumber>?</head:TelephoneNumber>
              </head:Telephone>
            </head:IndividualLocation>
          </head:IndividualContact>
        </head:Receiver>
      </equ:DocumentHeader>
    </equ:EquipmentQueryFullViewRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

```
</head:Receiver>
<head:DocumentDetail>
  <head:CreateDateAndTime>2020-10-31T12:00:00</head:CreateDateAndTime>
  <head:InstanceIdentifier>12345</head:InstanceIdentifier>
</head:DocumentDetail>
</equ:DocumentHeader>
<equ:ServiceRequestContext>
  <head:CustomerIdentity>
    <head:Customer>
      <head:SCAC>AARE</head:SCAC>
    </head:Customer>
    <head:User>
      <head:UserID>USERNAME</head:UserID>
    </head:User>
  </head:CustomerIdentity>
  <head:ClientContext>
    <head:TraceID>12345</head:TraceID>
    <head:EnvironmentType>DEV</head:EnvironmentType>
  </head:ClientContext>
</equ:ServiceRequestContext>
<equ:EquipmentQueryRequestDetail>
  <equ:EquipmentQuerySearchCriteria>
    <equ1:EquipmentID>
      <equ1:EquipmentInitial>RAIL</equ1:EquipmentInitial>
      <equ1:EquipmentNumber>000000456</equ1:EquipmentNumber>
    </equ1:EquipmentID>
  </equ:EquipmentQuerySearchCriteria>
  <equ:ExcludeConflictElements>false</equ:ExcludeConflictElements>
</equ:EquipmentQueryRequestDetail>
</equ:EquipmentQueryFullViewRequest>
</soapenv:Body>
</soapenv:Envelope>
```

Exhibit 6 Equipment Select Elements Request

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:equ="http://schemas.railinc.com/eq/umler/service/dynamic/equipmentservice"
xmlns:head="http://schemas.railinc.com/eq/umler/service/header"
xmlns:dyn="http://schemas.railinc.com/eq/umler/equipment/dynamic">
  <soapenv:Header>
    <wsse:Security soapenv:mustUnderstand="1" xmlns:wsse="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd">
      <wsse:UsernameToken>
        <wsse:Username>USERID</wsse:Username>
        <wsse:Password>PASSWORD</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
    <equ:EquipmentSelectElementsQueryRequest>
      <equ:DocumentHeader>
        <head:Sender>
          <head:OrganizationContact>
            <head:OrganizationIdentification>
              <head:OrganizationName>AARE</head:OrganizationName>
              <head:OrganizationIdentifier>AARE</head:OrganizationIdentifier>
            </head:OrganizationIdentification>
          </head:OrganizationContact>
        </head:Sender>
        <head:Receiver>
          <head:OrganizationContact>
            <head:OrganizationIdentification>
              <head:OrganizationName>AARE</head:OrganizationName>
              <head:OrganizationIdentifier>AARE</head:OrganizationIdentifier>
            </head:OrganizationIdentification>
          </head:OrganizationContact>
        </head:Receiver>
        <head:DocumentDetail>
          <head:CreateDateAndTime>2020-10-31T12:00:00</head:CreateDateAndTime>
          <head:InstanceIdentifier>12345</head:InstanceIdentifier>
        </head:DocumentDetail>
      </equ:DocumentHeader>
      <equ:ServiceContext>
        <head:CustomerIdentity>
          <head:Customer>
            <head:SCAC>AARE</head:SCAC>
          </head:Customer>
        </head:CustomerIdentity>
        <head:ClientContext>
          <head:TraceID>111234</head:TraceID>
          <head:EnvironmentType>TEST</head:EnvironmentType>
        </head:ClientContext>
      </equ:ServiceContext>
      <equ:EquipmentQueryRequestDetail>
        <dyn:EquipmentQuerySearchCriteria>
          <dyn:EquipmentID>
            <dyn:EquipmentInitial>RAIL</dyn:EquipmentInitial>
            <dyn:EquipmentNumber>000000266</dyn:EquipmentNumber>
          </dyn:EquipmentID>
        </dyn:EquipmentQuerySearchCriteria>
        <dyn:EquipmentQueryElementSelection>
          <dyn:ElementId>A252</dyn:ElementId>
          <dyn:ElementId>RBDT</dyn:ElementId>
        </dyn:EquipmentQueryElementSelection>
        <dyn:EquipmentQueryInspectionSelection>
          <dyn:InspectionType>ARI</dyn:InspectionType>
          <dyn:InspectionType>ABT</dyn:InspectionType>
        </dyn:EquipmentQueryInspectionSelection>
      </equ:EquipmentQueryRequestDetail>
    </equ:EquipmentSelectElementsQueryRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

```
        <dyn:InspectionType>FRA</dyn:InspectionType>
    </dyn:EquipmentQueryInspectionSelection>
    <dyn:IncludeConflictElements>true</dyn:IncludeConflictElements>
</equ:EquipmentQueryRequestDetail>
</equ:EquipmentSelectElementsQueryRequest>
</soapenv:Body>
</soapenv:Envelope>
```


Transaction Log Service (Component Support)

WSDL Umler Release Test URL

https://servicestst.railinc.com/RAILINC_EMIS_SERVICES/services/TransactionLogService.wsdl

URL for Endpoint

https://servicestst.railinc.com/RAILINC_EMIS_SERVICES/services/TransactionLogService

Transaction Log Service uses the same schema for request, except for the new security header, and the date supplied in the request has to be a valid xs:date type. For example, **2020-08-04T00:00:00.00000** is valid, but **Aug 04, 2020 12:00:00 AM** is not valid.

Exhibit 7 Transaction Log Request

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header>
    <wsse:Security xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"
      soapenv:mustUnderstand="1">
      <wsse:UsernameToken>
        <wsse:Username>USERID</wsse:Username>
        <wsse:Password>PASSWORD</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
    <trans:TransactionDetailQueryRequest xmlns:model="http://model.ws.railinc.com"
      xmlns:trans="http://transaction.model.emis.services.ws.railinc.com"
      xmlns:eq="http://equipment.model.emis.services.ws.railinc.com">
      <trans:submitter>
        <model:company>RAIL</model:company>
        <model:userID>userid</model:userID>
        <model:traceID>1001783</model:traceID>
        <model:userLocale>en_US</model:userLocale>
        <model:environment>dev</model:environment>
        <model:submitType>submit</model:submitType>
      </trans:submitter>
      <trans:transactionDetailQuery>
        <trans:maximumRecordCount>200</trans:maximumRecordCount>
        <trans:startDate>2020-06-25T00:00:00.00000</trans:startDate>
        <trans:endDate>2020-08-08T00:00:00.00000</trans:endDate>
      </trans:transactionDetailQuery>
    </trans:TransactionDetailQueryRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

Equipment Transaction Log

Transaction Log for a specific equipment can be retrieved using the same service as Transaction Log. The Equipment for which the transaction log is required has to be supplied in the criteria of the Transaction Log Service request. Transaction Log for an equipment is returned only between the specific date ranges provided in the request.

Exhibit 8 Equipment Transaction Log Request

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header>
    <wsse:Security xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"
      soapenv:mustUnderstand="1">
      <wsse:UsernameToken>
        <wsse:Username>USERID</wsse:Username>
        <wsse:Password>PASSWORD</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
    <trans:TransactionDetailQueryRequest xmlns:model="http://model.ws.railinc.com"
      xmlns:trans="http://transaction.model.emis.services.ws.railinc.com"
      xmlns:eq="http://equipment.model.emis.services.ws.railinc.com">
      <trans:submitter>
        <model:company>RAIL</model:company>
        <model:userID>userid</model:userID>
        <model:traceID>1001783</model:traceID>
        <model:userLocale>en_US</model:userLocale>
        <model:environment>dev</model:environment>
        <model:submitType>submit</model:submitType>
      </trans:submitter>
      <trans:transactionDetailQuery>
        <trans:maximumRecordCount>200</trans:maximumRecordCount>
        <trans:startDate>2020-06-25T00:00:00.00000</trans:startDate>
        <trans:endDate>2020-08-08T00:00:00.00000</trans:endDate>
        <trans:equipmentIds>
          <eq:equipmentIdValue>AARE 0000008513</eq:equipmentIdValue>
        </trans:equipmentIds>
      </trans:transactionDetailQuery>
    </trans:TransactionDetailQueryRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

Umler Web Services

Umler web service WSDLs can be accessed at the following URL. Client WSDLs can be found in the **Client WSDLs** section of the web page.

WSDL Umler Release Test URL

https://services.railinc.com/RAILINC_EMIS_SERVICES/services/UmlerEquipmentService.wsdl

All the endpoints that has RAILINC_EMIS_SERVICES is a 3.2 service. Below is the sample:

https://services.railinc.com/RAILINC_EMIS_SERVICES/services/UmlerEquipmentService

These WSDLs can be used to generate client application code, or generate requests using web services test client tools.

Umler Web Services uses dummy input parameters (ignoreRequest1, ignoreRequest2, etc...) to distinguish between web service operations provided by an end point, if more than one operation has the same input parameter signature. For example, **EquipmentChange** service has many operations with the same input element “EquipmentChange”, so to identify the operation “reportAirbrakeTest” a dummy input element “ignoreRequest1” was added, similarly for operation “reportAutorackCertification”, “ignoreRequest2” is used as the identifying input parameter.

The following table shows the operation name and the corresponding input elements that should be sent as part of the request:

Exhibit 9 Operation and Paramter Elements for Each Service

| Service | Operation | Input parameter Elements |
|------------------------|--|-----------------------------------|
| EquipmentChange | | |
| | reportAirbrakeTest | EquipmentChange ignoreRequest1 |
| | reportAutorackCertification | EquipmentChange ignoreRequest2 |
| | reportAutorackInspection | EquipmentChange ignoreRequest3 |
| | reportAutorackRepair | EquipmentChange ignoreRequest4 |
| | reportDoorLubeInspection | EquipmentChange ignoreRequest5 |
| | reportSixtyDayCabSignalInspection | EquipmentChange ignoreRequest6 |
| | reportQuarterlyFRALocomotiveInspection | EquipmentChange ignoreRequest7 |
| | reportAnnualFRALocomotiveInspection | EquipmentChange ignoreRequest8 |
| | reportBiennialFRALocomotiveInspection | EquipmentChange ignoreRequest9 |
| | reportFRALocomotiveAirBrakeInspection | EquipmentChange |

| Service | Operation | Input parameter Elements |
|---|---|------------------------------------|
| | | ignoreRequest10 |
| | reportLocomotiveStorageEvent | EquipmentChange ignoreRequest11 |
| | reportVehicularFlatCertification | EquipmentChange ignoreRequest12 |
| | reportReflectorizationEvent | EquipmentChange ignoreRequest13 |
| | reportAirbrakeNullification | EquipmentChange ignoreRequest14 |
| | reportEquipmentChange | EquipmentChange ignoreRequest14 |
| TransactionLog | | |
| | queryTransactionInformation | TransactionDetailQueryRequest |
| CompanySpecific EquipmentGroup | | |
| | assignEquipmentToCompanySpecificGroup | GroupAssignment ignoreRequest1 |
| | unassignEquipmentToCompanySpecificGroup | GroupAssignment ignoreRequest2 |

For example, **EquipmentChange** (in column 1 above) provides multiple operations. All requires the same input parameter “EquipmentChange” (column 3) to distinguish between one operation from the other. The client application must send ignoreRequest__ parameters that uniquely identifies each operation.

For example, to invoke the “reportEquipmentChange” operation, two elements should be sent within the request Body, EquipmentChange and ignoreRequest14, as shown below:

```

...
<soapenv:Body>
  <wseq:EquipmentChange>
    <wseq:submitter>
      ...
    </wseq:submitter>
    <wseq:equipmentUnit>
      ...
    </wseq:equipmentUnit>
  </wseq:EquipmentChange>
  <ignoreRequest1>1</ignoreRequest1>
</soapenv:Body>
...

```

Below are examples of fully function web services request messages for some of the most commonly used services: (except the userid/password have been removed, and equipment IDs changed.)

Assign Equipment To Company Specific Group

CompanySpecificEquipmentGroup.assignEquipmentToCompanySpecificGroup

https://servicestst.railinc.com/RAILINC_EMIS_WS/services/CompanySpecificEquipmentGroup

Exhibit 10 Assign Equipment to Company Specific Group

```
<soapenv:Envelope
  xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:gro="http://groupassignment.model.emis.services.ws.railinc.com"
  xmlns:mod="http://model.ws.railinc.com"
  xmlns:grol="http://group.model.emis.services.ws.railinc.com"
  xmlns:glob="http://global.ws.railinc.com"
  xmlns:equ="http://equipment.model.emis.services.ws.railinc.com">
  <soapenv:Header>
    <wsse:Security soapenv:mustUnderstand="1"
      xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
      xmlns:wsse="http://schemas.xmlsoap.org/ws/2003/06/secext">
      <wsse:UsernameToken>
        <wsse:Username>USERID</wsse:Username>
        <wsse:Password>PASSWORD</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
    <gro:GroupAssignment>
      <gro:submitter>
        <mod:company>AARE</mod:company>
        <mod:userID>userid</mod:userID>
        <mod:traceID>password</mod:traceID>
        <mod:userLocale>en_US</mod:userLocale>
        <mod:submitType>validate</mod:submitType>
      </gro:submitter>
      <!--Zero or more repetitions:-->
      <gro:groupAssign>
        <grol:groupId>
          <grol:groupIdValue>QATEST</grol:groupIdValue>
        </grol:groupId>
        <grol:equipmentId>
          <equ:equipmentIdValue>TEST0000000120</equ:equipmentIdValue>
        </grol:equipmentId>
      </gro:groupAssign>
    </gro:GroupAssignment>
    <ignoreRequest1>1</ignoreRequest1>
  </soapenv:Body>
</soapenv:Envelope>
```

Pool Assignment Service

https://servicestst.railinc.com/RAILINC_EMIS_WS/services/EquipmentAssignment

Exhibit 11 Pool Assignment

```
<soapenv:Envelope
  xmlns:q0="http://services.ws.emis.railinc.com"
  xmlns:q1="http://model.ws.railinc.com"
  xmlns:q2="http://poolassign.model.emis.services.ws.railinc.com"
  xmlns:q3="http://equipment.model.emis.services.ws.railinc.com"
  xmlns:q4="http://global.ws.railinc.com"
  xmlns:q5="http://pool.model.emis.services.ws.railinc.com"
  xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

  <soapenv:Header>
    <wsse:Security soapenv:mustUnderstand="1"
      xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
      xmlns:wsse="http://schemas.xmlsoap.org/ws/2003/06/secext">
      <wsse:UsernameToken>
        <wsse:Username>USERID</wsse:Username>
        <wsse:Password>PASSWORD</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>

  <soapenv:Body>
    <q0:assignEquipmentToPool>
      <q0:context>
        <q1:company>RAIL</q1:company>
        <q1:userID>USERID</q1:userID>
        <q1:traceID>1234</q1:traceID>
        <q1:userLocale>EN-US</q1:userLocale>
        <q1:environment>DEVELOPMENT</q1:environment>
        <q1:submitType>validate</q1:submitType>
      </q0:context>
      <q0:assignments>
        <q2:equipmentID>
          <q3:equipmentIdValue>AARE0000660000</q3:equipmentIdValue>
        </q2:equipmentID>
        <q2:poolID>
          <q5:poolIdValue>9990640</q5:poolIdValue>
        </q2:poolID>
      </q0:assignments>
    </q0:assignEquipmentToPool>
  </soapenv:Body>
</soapenv:Envelope>
```

Pool Header Update

https://servicestst.railinc.com/RAILINC_EMIS_WS/services/PoolHeader

Create Pool Header

Exhibit 12 Create Pool Header

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://services.ws.emis.railinc.com" xmlns:mod="http://model.ws.railinc.com"
xmlns:pool="http://pool.model.emis.services.ws.railinc.com"
xmlns:glob="http://global.ws.railinc.com">
  <soapenv:Header>
    <wsse:Security soapenv:mustUnderstand="1"
      xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
      xmlns:wsse="http://schemas.xmlsoap.org/ws/2003/06/secext">
      <wsse:UsernameToken>
        <wsse:Username>USERID</wsse:Username>
        <wsse:Password>PASSWORD</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
    <ser:createPoolHeader>
      <ser:context>
        <!--Optional:-->
        <mod:company>RAIL</mod:company>
        <!--Optional:-->
        <mod:userID>xxxxx</mod:userID>
        <!--Optional:-->
        <mod:traceID>1212</mod:traceID>
        <!--Optional:-->
        <mod:userLocale>en_us</mod:userLocale>
        <!--Optional:-->
        <mod:environment>production</mod:environment>
        <!--Optional:-->
        <mod:submitType>validate</mod:submitType>
      </ser:context>
      <ser:pool>
        <pool:poolId>
          <pool:poolIdValue>7777778</pool:poolIdValue>
          <!--Zero or more repetitions:-->
        </pool:poolId>
        <!--Optional:-->
        <pool:poolDescription>
          <!--Optional:-->
        </pool:poolDescription>
        <!--Optional:-->
        <pool:poolDescriptionValue>test</pool:poolDescriptionValue>
        </pool:poolDescription>
        <!--Optional:-->
        <pool:extendedPoolDescription>
          <pool:extendedPoolDescriptionValue>test</pool:extendedPoolDescriptionValue>
        </pool:extendedPoolDescription>
        <!--Optional:-->
        <pool:poolOperator1>
```

```
    <pool:poolOperatorValue>AARE</pool:poolOperatorValue>
  </pool:poolOperator1>
  <!--Optional:-->

  <pool:poolTypeCode>

    <pool:poolTypeCodeValue>P</pool:poolTypeCodeValue>
  </pool:poolTypeCode>
  <!--Optional:-->
  <pool:poolMaintenanceCode>

    <pool:poolMaintenanceCodeValue>1</pool:poolMaintenanceCodeValue>
  </pool:poolMaintenanceCode>
  <!--Optional:-->
  <pool:poolLoading>
    <pool:location>

      <pool:locationValue>MOYOCK</pool:locationValue>
    </pool:location>
    <!--Optional:-->
    <pool:stateProvince>

      <glob:stateProvinceValue>NC</glob:stateProvinceValue>
    </pool:stateProvince>
  </pool:poolLoading>
  <!--Optional:-->
</ser:pool>
</ser:createPoolHeader>
</soapenv:Body>
</soapenv:Envelope>
```


Delete Pool Header

Exhibit 13 Delete Pool Header

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://services.ws.emis.railinc.com" xmlns:mod="http://model.ws.railinc.com"
xmlns:pool="http://pool.model.emis.services.ws.railinc.com"
xmlns:glob="http://global.ws.railinc.com">
  <soapenv:Header>
    <wsse:Security soapenv:mustUnderstand="1"
      xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
      xmlns:wsse="http://schemas.xmlsoap.org/ws/2003/06/secext">
      <wsse:UsernameToken>
        <wsse:Username>USERID</wsse:Username>
        <wsse:Password>PASSWORD</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
    <ser:deletePoolHeader>

      <ser:context>
        <!--Optional:-->
        <mod:company>RAIL</mod:company>
        <!--Optional:-->
        <mod:userID>xxx</mod:userID>
        <!--Optional:-->
        <mod:traceID>1212</mod:traceID>
        <!--Optional:-->
        <mod:userLocale>en_us</mod:userLocale>
        <!--Optional:-->
        <mod:environment>production</mod:environment>
        <!--Optional:-->
        <mod:submitType>validate</mod:submitType>
      </ser:context>
      <ser:poolID>
        <pool:poolIdValue>7776694</pool:poolIdValue>

      </ser:poolID>
    </ser:deletePoolHeader>
  </soapenv:Body>
</soapenv:Envelope>
```

Modify Pool Header

Exhibit 14 Modify Pool Header

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://services.ws.emis.railinc.com" xmlns:mod="http://model.ws.railinc.com"
xmlns:pool="http://pool.model.emis.services.ws.railinc.com"
xmlns:glob="http://global.ws.railinc.com">
  <soapenv:Header>
    <wsse:Security soapenv:mustUnderstand="1"
      xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
      xmlns:wsse="http://schemas.xmlsoap.org/ws/2003/06/secext">
      <wsse:UsernameToken>
        <wsse:Username>USERID</wsse:Username>
        <wsse:Password>PASSWORD</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
    <ser:updatePoolHeader>
      <ser:context>
        <!--Optional:-->
        <mod:company>RAIL</mod:company>
        <!--Optional:-->
        <mod:userID>xxx</mod:userID>
        <!--Optional:-->
        <mod:traceID>1212</mod:traceID>
        <!--Optional:-->
        <mod:userLocale>en_us</mod:userLocale>
        <!--Optional:-->
        <mod:environment>production</mod:environment>
        <!--Optional:-->
        <mod:submitType>validate</mod:submitType>
      </ser:context>

      <ser:pool>

        <pool:poolId>
          <pool:poolIdValue>7776694</pool:poolIdValue>
          <!--Zero or more repetitions:-->

        </pool:poolId>
        <!--Optional:-->
        <pool:poolDescription>

          <pool:poolDescriptionValue>Pool Update test</pool:poolDescriptionValue>
        </pool:poolDescription>

        <!--Optional:-->

      </ser:pool>
    </ser:updatePoolHeader>
  </soapenv:Body>
</soapenv:Envelope>
```

Addition and Betterment – New

Exhibit 15 Addition and Betterment – New

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:eq="http://schemas.railinc.com/eq/umler/equipment/dynamic">
  <s:Header>
    <wsse:Security s:mustUnderstand="1" xmlns:wsse="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"
xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd">
      <wsse:UsernameToken wsu:Id="UsernameToken-3">
        <wsse:Username>USERID</wsse:Username>
        <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
username-token-profile-1.0#PasswordText">PASSWORD</wsse:Password>
        <wsse:Nonce EncodingType="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-soap-message-security-1.0#Base64Binary">pf7x5g59FWca7tX9JrPCzw==</wsse:Nonce>
        <wsu:Created>2013-02-06T22:43:30.565Z</wsu:Created>
      </wsse:UsernameToken>
    </wsse:Security>
  </s:Header>
  <s:Body xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <UmlerEquipmentChangeRequest
xmlns="http://schemas.railinc.com/eq/umler/service/dynamic/equipmentservice">
      <DocumentHeader>
        <Sender xmlns="http://schemas.railinc.com/eq/umler/service/header">
          <OrganizationContact>
            <OrganizationIdentification>
              <OrganizationName>AARE</OrganizationName>
              <OrganizationIdentifier>AARE</OrganizationIdentifier>
            </OrganizationIdentification>
          </OrganizationContact>
        </Sender>
        <Receiver xmlns="http://schemas.railinc.com/eq/umler/service/header">
          <OrganizationContact>
            <OrganizationIdentification>
              <OrganizationName>RAIL</OrganizationName>
              <OrganizationIdentifier>RAIL</OrganizationIdentifier>
            </OrganizationIdentification>
          </OrganizationContact>
        </Receiver>
        <DocumentDetail xmlns="http://schemas.railinc.com/eq/umler/service/header">
          <CreateDateAndTime>2020-08-16T10:11:19.779256-05:00</CreateDateAndTime>
          <InstanceIdentifier>42239702-eb34-492a-8a5b-28592f30b204</InstanceIdentifier>
        </DocumentDetail>
      </DocumentHeader>
      <ServiceContext>
        <CustomerIdentity xmlns="http://schemas.railinc.com/eq/umler/service/header">
          <Customer>
            <SCAC>RAIL</SCAC>
          </Customer>
        </CustomerIdentity>
        <SubmitMode xmlns="http://schemas.railinc.com/eq/umler/service/header">
          <SubmitModeType>VALIDATE</SubmitModeType>
        </SubmitMode>
        <ClientContext xmlns="http://schemas.railinc.com/eq/umler/service/header">
          <TraceID>XXX</TraceID>
          <EnvironmentType>TEST</EnvironmentType>
        </ClientContext>
      </ServiceContext>
    </UmlerEquipmentChangeRequest>
  </s:Body>
</s:Envelope>

```

```
<EquipmentUnitIdentifier
xmlns="http://schemas.railinc.com/eq/umler/equipment/dynamic">
  <EquipmentInitial>RAIL</EquipmentInitial>
  <EquipmentNumber>0000000010</EquipmentNumber>
</EquipmentUnitIdentifier>
<EquipmentUnitCharacteristics
xmlns="http://schemas.railinc.com/eq/umler/equipment/dynamic">
  <ECCOperation xsi:type="eq:ChangeComponentElement">
    <componentElement>
      <elementID>A150</elementID>
      <elementValue>9200</elementValue>
      <componentID>BASE</componentID>
      <componentLocation>1</componentLocation>
    </componentElement>
    <componentElement>
      <elementID>A184</elementID>
      <elementValue>9000</elementValue>
      <componentID>BASE</componentID>
      <componentLocation>1</componentLocation>
    </componentElement>
    <componentElement>
      <elementID>A316</elementID>
      <elementValue>P</elementValue>
      <componentID>ABIND</componentID>
      <componentLocation>AB2</componentLocation>
      <parentComponentID>BASE</parentComponentID>
      <parentComponentLocation>1</parentComponentLocation>
    </componentElement>
    <componentElement>
      <elementID>A317</elementID>
      <elementValue>100</elementValue>
      <componentID>ABIND</componentID>
      <componentLocation>AB2</componentLocation>
      <parentComponentID>BASE</parentComponentID>
      <parentComponentLocation>1</parentComponentLocation>
    </componentElement>
    <componentElement>
      <elementID>A318</elementID>
      <elementValue>GNRL</elementValue>
      <componentID>ABIND</componentID>
      <componentLocation>AB2</componentLocation>
      <parentComponentID>BASE</parentComponentID>
      <parentComponentLocation>1</parentComponentLocation>
    </componentElement>
    <componentElement>
      <lastUpdateTimestamp>2020-06-06T09:45:46</lastUpdateTimestamp>
      <elementID>A319</elementID>
      <elementValue>20130201</elementValue>
      <componentID>ABIND</componentID>
      <componentLocation>AB2</componentLocation>
      <parentComponentID>BASE</parentComponentID>
      <parentComponentLocation>1</parentComponentLocation>
    </componentElement>
    <componentElement>
      <elementID>A316</elementID>
      <elementValue>P</elementValue>
      <componentID>ABIND</componentID>
      <componentLocation>AB1</componentLocation>
      <parentComponentID>BASE</parentComponentID>
      <parentComponentLocation>1</parentComponentLocation>
    </componentElement>
    <componentElement>
      <elementID>A317</elementID>
```

```
<elementValue>100</elementValue>
<componentID>ABIND</componentID>
<componentLocation>AB1</componentLocation>
<parentComponentID>BASE</parentComponentID>
<parentComponentLocation>1</parentComponentLocation>
</componentElement>
<componentElement>
  <elementID>A318</elementID>
  <elementValue>GNRL</elementValue>
  <componentID>ABIND</componentID>
  <componentLocation>AB1</componentLocation>
  <parentComponentID>BASE</parentComponentID>
  <parentComponentLocation>1</parentComponentLocation>
</componentElement>
<componentElement>
  <lastUpdateTimestamp>2020-06-06T09:45:46</lastUpdateTimestamp>
  <elementID>A319</elementID>
  <elementValue>20200201</elementValue>
  <componentID>ABIND</componentID>
  <componentLocation>AB1</componentLocation>
  <parentComponentID>BASE</parentComponentID>
  <parentComponentLocation>1</parentComponentLocation>
</componentElement>
</ECCOperation>
<ECCOperation xsi:type="eq:ChangeComponent">
  <addComponent>
    <lastUpdateTimestamp>2020-06-06T09:45:46</lastUpdateTimestamp>
    <componentID>ABIND</componentID>
    <componentLocation>AB1</componentLocation>
    <parentComponentID>BASE</parentComponentID>
    <parentComponentLocation>1</parentComponentLocation>
  </addComponent>
  <addComponent>
    <lastUpdateTimestamp>2020-06-06T09:45:46</lastUpdateTimestamp>
    <componentID>ABIND</componentID>
    <componentLocation>AB2</componentLocation>
    <parentComponentID>BASE</parentComponentID>
    <parentComponentLocation>1</parentComponentLocation>
  </addComponent>
</ECCOperation>
</EquipmentUnitCharacteristics>
</EquipmentUnit>
</UmlerEquipmentChangeRequest>
</s:Body>
</s:Envelope>
```

Addition and Betterment – Update

Exhibit 16 Addition and Betterment – Update

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:eq="http://schemas.railinc.com/eq/umler/equipment/dynamic">
  <s:Header>
    <wsse:Security s:mustUnderstand="1" xmlns:wsse="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"
xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd">
      <wsse:UsernameToken wsu:Id="UsernameToken-3">
        <wsse:Username>USERID</wsse:Username>
        <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
username-token-profile-1.0#PasswordText">PASSWORD</wsse:Password>
        <wsse:Nonce EncodingType="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-soap-message-security-1.0#Base64Binary">pf7x5g59FWca7tX9JrPCzw==</wsse:Nonce>
        <wsu:Created>2020-02-06T22:43:30.565Z</wsu:Created>
      </wsse:UsernameToken>
    </wsse:Security>
  </s:Header>
  <s:Body xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <UmlerEquipmentChangeRequest
xmlns="http://schemas.railinc.com/eq/umler/service/dynamic/equipmentservice">
      <DocumentHeader>
        <Sender xmlns="http://schemas.railinc.com/eq/umler/service/header">
          <OrganizationContact>
            <OrganizationIdentification>
              <OrganizationName>AARE</OrganizationName>
              <OrganizationIdentifier>AARE</OrganizationIdentifier>
            </OrganizationIdentification>
          </OrganizationContact>
        </Sender>
        <Receiver xmlns="http://schemas.railinc.com/eq/umler/service/header">
          <OrganizationContact>
            <OrganizationIdentification>
              <OrganizationName>RAIL</OrganizationName>
              <OrganizationIdentifier>RAIL</OrganizationIdentifier>
            </OrganizationIdentification>
          </OrganizationContact>
        </Receiver>
        <DocumentDetail xmlns="http://schemas.railinc.com/eq/umler/service/header">
          <CreateDateAndTime>2020-08-16T10:11:19.779256-05:00</CreateDateAndTime>
          <InstanceIdentifier>42239702-eb34-492a-8a5b-28592f30b204</InstanceIdentifier>
        </DocumentDetail>
      </DocumentHeader>
      <ServiceContext>
        <CustomerIdentity xmlns="http://schemas.railinc.com/eq/umler/service/header">
          <Customer>
            <SCAC>RAIL</SCAC>
          </Customer>
        </CustomerIdentity>
        <SubmitMode xmlns="http://schemas.railinc.com/eq/umler/service/header">
          <SubmitModeType>VALIDATE</SubmitModeType>
        </SubmitMode>
        <ClientContext xmlns="http://schemas.railinc.com/eq/umler/service/header">
          <TraceID>XXXXXXXXXXXX</TraceID>
          <EnvironmentType>TEST</EnvironmentType>
        </ClientContext>
      </ServiceContext>
    </UmlerEquipmentChangeRequest>
  </s:Body>
</s:Envelope>

```

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<EquipmentUnitIdentifier
xmlns="http://schemas.railinc.com/eq/umler/equipment/dynamic">
  <EquipmentInitial>RAIL</EquipmentInitial>
  <EquipmentNumber>0000000301</EquipmentNumber>
</EquipmentUnitIdentifier>
<EquipmentUnitCharacteristics
xmlns="http://schemas.railinc.com/eq/umler/equipment/dynamic">
  <ECCOperation xsi:type="eq:ChangeComponentElement">
    <componentElement>
      <elementID>A150</elementID>
      <elementValue>9300</elementValue>
      <componentID>BASE</componentID>
      <componentLocation>1</componentLocation>
    </componentElement>
    <componentElement>
      <elementID>A316</elementID>
      <elementValue>P</elementValue>
      <componentID>ABIND</componentID>
      <componentLocation>AB3</componentLocation>
      <parentComponentID>BASE</parentComponentID>
      <parentComponentLocation>1</parentComponentLocation>
    </componentElement>
    <componentElement>
      <elementID>A317</elementID>
      <elementValue>100</elementValue>
      <componentID>ABIND</componentID>
      <componentLocation>AB3</componentLocation>
      <parentComponentID>BASE</parentComponentID>
      <parentComponentLocation>1</parentComponentLocation>
    </componentElement>
    <componentElement>
      <elementID>A318</elementID>
      <elementValue>GNRL</elementValue>
      <componentID>ABIND</componentID>
      <componentLocation>AB3</componentLocation>
      <parentComponentID>BASE</parentComponentID>
      <parentComponentLocation>1</parentComponentLocation>
    </componentElement>
    <componentElement>
      <lastUpdateTimestamp>2020-06-06T09:45:46</lastUpdateTimestamp>
      <elementID>A319</elementID>
      <elementValue>20130201</elementValue>
      <componentID>ABIND</componentID>
      <componentLocation>AB3</componentLocation>
      <parentComponentID>BASE</parentComponentID>
      <parentComponentLocation>1</parentComponentLocation>
    </componentElement>
  </ECCOperation>
  <ECCOperation xsi:type="eq:ChangeComponent">
    <addComponent>
      <lastUpdateTimestamp>2020-06-06T09:45:46</lastUpdateTimestamp>
      <componentID>ABIND</componentID>
      <componentLocation>AB2</componentLocation>
      <parentComponentID>BASE</parentComponentID>
      <parentComponentLocation>1</parentComponentLocation>
    </addComponent>
  </ECCOperation>
</EquipmentUnitCharacteristics>
</EquipmentUnit>
</UmlerEquipmentChangeRequest>
</s:Body>
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