Subscriber Guide

TSIS DATEX II v2

Document Control Page

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1 Introduction

1.1 Scope of Document

This document is intended to provide enough information regarding DATEX II version 2.3 publications to allow subscribers to set up receiver applications with which the publications can be received and processed. Detailed information regarding how the publication templates are built up and examples of the data they may contain are laid out within the document for this purpose.

1.2 Intended Audience

This document is intended to be a guide for all potential subscribers to the DATEX II version 2.3 publications feed.

1.3 Document Structure

The structure of this document is as follows:

- Section 1, this section, details the document scope and structure

- Section 2 lists all of the publications that can be made available via the Publisher application if the underlying data exists to do so.

- Section 3 explains the general format of DATEX publications, the method by which they are published and their locations.

- Section 4 describes all of the publications in detail, including the templates upon which each one is based.

- Section 5 outlines XML examples of each of the publications relevant to the Traffic Scotland DATEX feed,

1.4 Document References

The following documents are referred to:

- http://www.datex2.eu/datex-model/HTML.Version_2.3/index.htm - the DATEX 2 Data Model Version 2.3.

- http://www.datex2.eu/sites/www.datex2.eu/files/DATEXIISchema_2_2_3_0.zip – the DATEX 2 XML Schema Version 2.3

- http://www.datex2.eu/sites/www.datex2.eu/files/DATEXII_-_ExchangePSM.pdf - the DATEX 2 Exchange Platform Specific Model (PSM) Version 2.3.

All of the above documents are publicly available on the official DATEX website.

2   Publications

The following table contains a list of all the publications that are applicable to the Traffic Scotland DATEX II publisher application.

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2.1   Publication Types

There are two types of DATEX publications - Dynamic and Static.

Dynamic Publications contain data that changes frequently (e.g. Travel Time Data), whereas Static Publications, represent data that does not (e.g. Travel Time Sites).

The content of both publications is checked approximately every five minutes to see whether the underlying data has changed (see section 3.2.1).

2.2   Publications

Publication Name	Description	Datex Publication Payload	Static/ Dynamic
Unplanned Events	Incidents, roadworks and road conditions that are unplanned.	SituationPublication	Dynamic
Current Roadworks	Current (active) planned roadworks.	SituationPublication	Dynamic
Future Roadworks	Future planned roadworks.	SituationPublication	Dynamic
Travel Time Data	Travel times/Journey times.	MeasuredDataPublication	Dynamic
Traffic Status Data	Data related to the state of traffic flow at the time of publication.	MeasureDataPublication	Dynamic
VMS	Current status and settings of one or more variable message signs (VMS) units	VmsPublication	Dynamic
Travel Time Sites	Details of travel time links.	MeasurementSiteTable Publication	Static
Traffic Status Sites	Details of the sites at which Traffic Status data are recorded.	MeasurementSiteTable Publication	Static
VMS table	Locations of Variable Message Signs.	VmsTablePublication	Static

3 Publication Format, Location and Method

3.1 Introduction

This section describes the manner in which the data is published and from where it is available.

3.2 Location

Publications can be accessed via the DATEX site. The general format of the DATEX publication URLs is:

http://datex2.traffic-scotland.co.uk/rest/2.3/publications/<publication>/content.xml

http://datex2.traffic-scotland.co.uk/rest/2.3/publications/<publication>/metadata.xml

Example:

http://datex2.traffic-scotland.co.uk/rest/2.3/publications/UnplannedEvents/Content.xml

http://datex2.traffic-scotland.co.uk/rest/2.3/publications/UnplannedEvents/Content.xml

For convenience the site includes an index page which provides links to metadata and content for all publications at http://datex2.traffic-scotland.co.uk/

Each publication comprises 2 files:

- content.xml
- metadata.xml

Please see section 4 of the DATEX 2 Exchange Platform Specific Model (PSM) Version 2.3 for detailed information.

3.2.1 Content.xml

This file contains the "payload" information – the actual data associated with the publication. It is checked approximately every 5 minutes and is updated every time the underlying source data is changed.

The DATEX specification stipulates that publications may be enclosed in a SOAP (a protocol for exchanging XML-based messages via HTTP/HTTPS) envelope. Traffic Scotland DATEX feed implements this protocol.

The publication payload of each content.xml file is enclosed in a wrapper which is common to all the publications. This wrapper template is laid out in the following format for all of the publication content files:

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<soapenv:Body>
<d2LogicalModel modelBaseVersion="2"
xmlns="http://datex2.eu/schema/2/2_0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://datex2.eu/schema/2/2_0
http://datex2.eu/schema/2/2_3/DATEXIISchema_2_2_3.xsd">
 <exchange>
  <supplierIdentification>
   <country>{COUNTRY}</country>
   <nationalIdentifier>{NATIONAL_IDENTIFIER}</nationalIdentifier>
  </supplierIdentification>
 </exchange>
 {actual payload information for publication}
</d2LogicalModel>
</soapenv:Body>
</soapenv:Envelope>
```

3.2.2   Metadata.xml

This file enables a user of the data to check whether the data has been updated or not (and therefore precludes the necessity of downloading a large file if the content has not changed). It is updated approximately every minute and contains 2 timestamps:

- confirmedTime – the time the content.xml file was last updated.

- confirmationTime – the time the metadata.xml file was last updated. This also serves as a "heartbeat" to enable data users to know whether or not the system is functioning.

The Metadata files utilize SOAP envelopes laid out in the following format.

```
<soapenv:Envelope>
 <soapenv:Body>
  <MetaData xsi:noNamespaceSchemaLocation="metadata.xsd"
  confirmationTime="2015-12-08T13:03:48+00:00"
  confirmedTime="2015-11-25T12:36:29+00:00"/>
 </soapenv:Body>
</soapenv:Envelope>
```

3.3   Mechanism

The main features of the publication mechanism are:

- The web server uses the HTTP 1.1 protocol to serve the DATEX 2 Publications to DATEX Receivers via the internet via GET requests.

- Basic HTTP authentication is required to access the publications.

- The publisher uses the Client Pull "Simple HTTP Server" profile and provides both content and metadata files as specified.

- The web server only contains valid data - generated files are validated against the DATEX 2.3 Schema (see Section 1.4) before being transferred to the web server.

- The exchange mechanism complies with the DATEX 2 Exchange Platform Specific Model (PSM) Version 2.0.

- The format of the published files complies with the DATEX 2 Data Model Version 2.3 (see Section 1.4).

4   Publication Templates

4.1   Introduction

This section provides a detailed description of the publications currently available via the full DATEX II service, which comprises a generic set of templates on which the publications are built.

4.2   Structure of this Section

Within this section the publications are discussed in terms of the templates that make each of them up.

Each template is laid out in its XML format, with the key replacement tokens outlined in bold text and usually as values within curly braces; e.g. {FromX}. Thereafter follows a table of these tokens and their possible replacement values within the context of generic data or per specific publication as might be the case. Where templates are nested, as is the case with location-based templates, a top-down approach is used so that the containing template is described prior to any nested templates within it.

4.3   Template Usage

The templates in this document include entries which are optional. Where there is no data available for any particular record, the relevant part of the publication described by the template will not be present.

4.4   Location Templates

The content described in these templates is nested within other templates where it is necessary to detail the locations affected by the data being published. The Tpeg Point Location template is used by the VMS Table publication, the Tpeg Linear Location template by the Travel Time Sites and Traffic Status Sites publications, while the Event publication may make use of both.

Certain fields within these templates are mandatory, while others may be optional. Please see the DATEX 2 Data Model Version 2.3 for details of which fields are of which type.

Please also note that some of the DATEX elements are only used for certain types of point (TpegSimplePoint.point, TpegLinearLocation.to or TpegLinearLocation.from). The DATEX elements junctionName, tpegIlcName1, tpegIlcName2, tpegIlcName3 and intersectionName are only applicable to points with a tpegLocationType of TpegJunction. The DATEX elements linkName and nonLinkedPointName are only applicable to points with a tpegLocationType of TpegNonJunctionPoint.

4.4.1 Tpeg Point Location

```xml
<tpegpointLocation xsi:type="TpegSimplePoint">
 <tpegDirection>{FromTpegDirection}</tpegDirection>
 <tpegLocationType>{FromTpegLocationType}</tpegLocationType>
 <point xsi:type="{FromTpegPointType}">
  <pointCoordinates>
   <latitude>{FromY}</latitude>
   <longitude>{FromX}</longitude>
  </pointCoordinates>
  <name>
   <descriptor>
    <value lang="en">{FromJunction}</value>
   </descriptor>
   <tpegDescriptorType>junctionName</tpegDescriptorType>
  </name>
  <ilc>
   <descriptor>
    <value lang="en">{FromRoad}</value>
   </descriptor>
   <tpegDescriptorType>tpegIlcName1</tpegDescriptorType>
  </ilc>
  <ilc>
   <descriptor>
    <value lang="en">{FromIntersectingRoad}</value>
   </descriptor>
   <tpegDescriptorType>tpegIlcName2</tpegDescriptorType>
  </ilc>
  <ilc>
   <descriptor>
    <value lang="en">{FromIntersectingRoad2}</value>
   </descriptor>
   <tpegDescriptorType>tpegIlcName3</tpegDescriptorType>
  </ilc>
  <otherName>
   <descriptor>
    <value lang="en">{FromPointName}</value>
   </descriptor>
   <tpegDescriptorType>intersectionName</tpegDescriptorType>
  </otherName>
  <name>
   <descriptor>
    <value lang="en">{FromRoad}</value>
   </descriptor>
   <tpegDescriptorType>linkName</tpegDescriptorType>
  </name>
  <name>
   <descriptor>
    <value lang="en">{FromPointName}</value>
   </descriptor>
   <tpegDescriptorType>nonLinkedPointName</tpegDescriptorType>
  </name>
 </point>
</tpegpointLocation>
```

TOKEN	VALUE
{FromTpegDirection}	This is a DATEX **TpegLoc02DirectionTypeEnum**. See the DATEX 2 Data Model Version 2.3 for details of this enumeration.
{FromTpegLocationType}	This is a DATEX **TpegLoc01SimplePointLocationSubtypeEnum**. See the DATEX 2 Data Model Version 2.3 for details of this enumeration.
{FromTpegPointType}	See the DATEX 2 Data Model Version 2.3 for details of these classes.
{FromY}	The latitude of the point as a wgs84 co-ordinate.
{FromX}	The longitude of the point as a wgs84 co-ordinate.
{FromJunction}	The value is the number of the junction. This is a string value and may contain letters e.g. **J5**.
{FromRoad}	This value is the road number, for example. This is a string value and will probably contain letters, e.g. **A80, M9, N1**.
{FromIntersectingRoad}	This value is the road number, for example. This is a string value and will probably contain letters, e.g. **A80, M9, N1**.
{FromIntersectingRoad2}	This value is the road number, for example. This is a string value and will probably contain letters, e.g. **A80, M9, N1**.
{FromPointName}	This value contains the point name. This is a string value.

4.4.2   Tpeg Linear Location

```
<tpeglinearLocation>
 <tpegDirection>{FromTpegDirection}</tpegDirection>
 <tpegLocationType>segment</tpegLocationType>
 <to xsi:type="{ToTpegPointType}">
  <pointCoordinates>
   <latitude>{ToY}</latitude>
   <longitude>{ToX}</longitude>
  </pointCoordinates>
  <name>
   <descriptor>
    <value lang="en">{ToJunction}</value>
   </descriptor>
   <tpegDescriptorType>junctionName</tpegDescriptorType>
  </name>
  <ilc>
   <descriptor>
    <value lang="en">{ToRoad}</value>
   </descriptor>
   <tpegDescriptorType>tpegIlcName1</tpegDescriptorType>
  </ilc>
  <ilc>
   <descriptor>
    <value lang="en">{ToIntersectingRoad}</value>
   </descriptor>
```

```
   <tpegDescriptorType>tpegIlcName2</tpegDescriptorType>
  </ilc>
  <ilc>
   <descriptor>
    <value lang="en">{ToIntersectingRoad2}</value>
   </descriptor>
   <tpegDescriptorType>tpegIlcName3</tpegDescriptorType>
  </ilc>
  <otherName>
   <descriptor>
    <value lang="en">{ToPointName}</value>
   </descriptor>
   <tpegDescriptorType>intersectionName</tpegDescriptorType>
  </otherName>
  <name>
   <descriptor>
    <value lang="en">{ToRoad}</value>
   </descriptor>
   <tpegDescriptorType>linkName</tpegDescriptorType>
  </name>
  <name>
   <descriptor>
    <value lang="en">{ToPointName}</value>
   </descriptor>
   <tpegDescriptorType>nonLinkedPointName</tpegDescriptorType>
  </name>
 </to>
 <from xsi:type="{FromTpegPointType}">
  <pointCoordinates>
   <latitude>{FromY}</latitude>
   <longitude>{FromX}</longitude>
  </pointCoordinates>
  <name>
   <descriptor>
    <value lang="en">{FromJunction}</value>
   </descriptor>
   <tpegDescriptorType>junctionName</tpegDescriptorType>
  </name>
  <ilc>
   <descriptor>
    <value lang="en">{FromRoad}</value>
   </descriptor>
   <tpegDescriptorType>tpegIlcName1</tpegDescriptorType>
  </ilc>
  <ilc>
   <descriptor>
    <value lang="en">{FromIntersectingRoad}</value>
   </descriptor>
   <tpegDescriptorType>tpegIlcName2</tpegDescriptorType>
  </ilc>
  <ilc>
   <descriptor>
    <value lang="en">{FromIntersectingRoad2}</value>
   </descriptor>
   <tpegDescriptorType>tpegIlcName3</tpegDescriptorType>
  </ilc>
  <otherName>
   <descriptor>
    <value lang="en">{FromPointName}</value>
   </descriptor>
   <tpegDescriptorType>intersectionName</tpegDescriptorType>
  </otherName>
```

```
  <name>
   <descriptor>
    <value lang="en">{FromRoad}</value>
   </descriptor>
   <tpegDescriptorType>linkName</tpegDescriptorType>
  </name>
  <name>
   <descriptor>
    <value lang="en">{FromPointName}</value>
   </descriptor>
   <tpegDescriptorType>nonLinkedPointName</tpegDescriptorType>
  </name>
 </from>
</tpeglinearLocation>
```

TOKEN	VALUE
{FromTpegDirection}	This is a DATEX **TpegLoc02DirectionTypeEnum**. See the DATEX 2 Data Model Version 2.3 for details of this enumeration.
{ToTpegPointType}	See the DATEX 2 Data Model Version 2.3 for details of these classes.
{ToY}	The latitude of the point as a wgs84 co-ordinate.
{ToX}	The latitude of the point as a wgs84 co-ordinate.
{ToJunction}	The value is the number of the junction. This is a string value and may contain letters e.g. **J5**.
{ToRoad}	This value is the road number, for example. This is a string value and will probably contain letters, e.g. **A80, M9, N1**.
{ToIntersectingRoad}	This value is the road number, for example. This is a string value and will probably contain letters, e.g. **A80, M9, N1**.
{ToIntersectingRoad2}	This value is the road number, for example. This is a string value and will probably contain letters, e.g. **A80, M9, N1**.
{ToPointName}	This value contains the point name. This is a string value.
{FromTpegPointType}	As for **{ToTpegPointType}**.
{FromJunction}	As for **{ToJunction}**.
{FromRoad}	As for **{ToRoad}**.
{FromIntersectingRoad}	As for **{ToIntersectingRoad}**.
{FromIntersectingRoad2}	As for **{ToIntersectingRoad2}**.
{FromPointName}	As for **{ToPointName}**.

4.4.3 Tpeg Framed Point

```
<tpegPointLocation xsi:type="TpegFramedPoint">
 <tpegDirection>{TpegDirection}</tpegDirection>
 <tpegFramedPointLocationType>framedPoint</tpegFramedPointLocationType>
 <framedPoint xsi:type="{TpegFramedPointType}">
  <pointCoordinates>
   <latitude>{FramedPointLocationX}</latitude>
   <longitude>{FramedPointLocationY}</longitude>
  </pointCoordinates>
  <name>
   <descriptor>
    <values>
     <value lang="en">{LinkName}</value>
    </values>
   </descriptor>
   <tpegOtherPointDescriptorType>linkName</tpegOtherPointDescriptorType>
  </name>
  <name>
   <descriptor>
    <values>
     <value lang="en">{NonLinkedPointName}</value>
    </values>
   </descriptor>

<tpegOtherPointDescriptorType>nonLinkedPointName</tpegOtherPointDescriptorT
ype>
  </name>
 </framedPoint>
 <to xsi:type="{ToType}">
  <pointCoordinates>
   <latitude>{ToX}</latitude>
   <longitude>{ToY}</longitude>
  </pointCoordinates>
  <ilc>
   <descriptor>
    <values>
     <value lang="en">{TpegToIlcName1}</value>
    </values>
   </descriptor>
   <tpegIlcPointDescriptorType>tpegIlcName1</tpegIlcPointDescriptorType>
  </ilc>
  <ilc>
   <descriptor>
    <values>
     <value lang="en">{TpegToIlcName2}</value>
    </values>
   </descriptor>
   <tpegIlcPointDescriptorType>tpegIlcName2</tpegIlcPointDescriptorType>
  </ilc>
  <ilc>
   <descriptor>
    <values>
     <value lang="en">{TpegToIlcName3}</value>
    </values>
   </descriptor>
   <tpegIlcPointDescriptorType>tpegIlcName3</tpegIlcPointDescriptorType>
  </ilc>
  <otherName>
   <descriptor>
    <values>
     <value lang="en">{TpegToOtherName}</value>
```

```
      </values>
    </descriptor>

<tpegOtherPointDescriptorType>intersectionName</tpegOtherPointDescriptorTyp
e>
   </otherName>
 </to>
 <from xsi:type="{FromType}">
  <pointCoordinates>
   <latitude>{FromX}</latitude>
   <longitude>{FromY}</longitude>
  </pointCoordinates>
  <ilc>
   <descriptor>
    <values>
     <value lang="en">{TpegFromIlcName1}</value>
    </values>
   </descriptor>
   <tpegIlcPointDescriptorType>tpegIlcName1</tpegIlcPointDescriptorType>
  </ilc>
  <ilc>
   <descriptor>
    <values>
     <value lang="en">{TpegFromIlcName2}</value>
    </values>
   </descriptor>
   <tpegIlcPointDescriptorType>tpegIlcName2</tpegIlcPointDescriptorType>
  </ilc>
  <otherName>
   <descriptor>
    <values>
     <value lang="en">{TpegFromOtherName}</value>
    </values>
   </descriptor>

<tpegOtherPointDescriptorType>intersectionName</tpegOtherPointDescriptorTyp
e>
   </otherName>
 </from>
</tpegPointLocation>
```

TOKEN	VALUE
{TpegDirection}	The direction of traffix flow.
{TpegFramedPointType}	The type of TPEG location.
{FramedPointLocationX}	The latitude of the point as a wgs84 co-ordinate.
{FramedPointLocationY}	The longitude of the point as a wgs84 co-ordinate.
{LinkName}	This value is the road number, for example. This is a string value and will probably contain letters, e.g. **A80, M9, N1**.
{NonLinkedPointName}	This value is the road number, for example. This is a string value and will probably contain letters, e.g. **A80, M9, N1**.
{ToType}	The type of TPEG point.

{ToX}	The latitude of the point as a wgs84 co-ordinate.
{ToY}	The longitude of the point as a wgs84 co-ordinate.
{TpegToIlcName1}	This value is the road number, for example. This is a string value and will probably contain letters, e.g. **A9**.
{TpegToIlcName2}	This value is the road number, for example. This is a string value and will probably contain letters, e.g. **A90**.
{TpegToIlcName3}	This value is the road number, for example. This is a string value and will probably contain letters, e.g. **A85**.
{TpegToOtherName}	This value is a descriptive name, for example. This is a string value and will probably contain letters, e.g. **A9 / A90**.
{FromType}	The type of TPEG point.
{FromX}	The latitude of the point as a wgs84 co-ordinate.
{FromY}	The longitude of the point as a wgs84 co-ordinate.
{TpegFromIlcName1}	This value is the road number, for example. This is a string value and will probably contain letters, e.g. **A9**.
{TpegFromIlcName2}	This value is the road number, for example. This is a string value and will probably contain letters, e.g. **A93**.
{TpegFromOtherName}	This value is a descriptive name, for example. This is a string value and will probably contain letters, e.g. **A9 Broxden**.

4.5   Publication Templates

These templates detail all of the possible data that may be output for the various publications. As with the Location templates above, certain fields within the templates will be mandatory, while others may be optional. The templates are designed to capture the largest data set available to each publication and it is therefore very likely that the Traffic Scotland DATEX feed does not output every field. In the underlying tables below each publication the fields that are in use for each template have been indicated.

The availability column in the following table indicates whether the fields are available within the Traffic Scotland publication. If all the fields are marked as unavailable then the publication itself is not available as part of the current Traffic Scotland DATEX II feed.

4.5.1   Unplanned Events

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<soapenv:Body>
<d2LogicalModel modelBaseVersion="2"
xmlns="http://datex2.eu/schema/2/2_0"
```

```xml
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://datex2.eu/schema/2/2_0
http://datex2.eu/schema/2/2_3/DATEXIISchema_2_2_3.xsd">
 <exchange>
  <supplierIdentification>
   <country>{COUNTRY}</country>
   <nationalIdentifier>{NATIONAL_IDENTIFIER}</nationalIdentifier>
  </supplierIdentification>
 </exchange>
 <payloadPublication xsi:type="SituationPublication" lang="eng">
  <publicationTime>{TIMESTAMP}</publicationTime>
  <publicationCreator>
   <country>{COUNTRY}</country>
   <nationalIdentifier>{NATIONAL_IDENTIFIER}</nationalIdentifier>
  </publicationCreator>

  <situation id="{SituationRecordId}_S" version="1">
   <headerInformation>
    <confidentiality>noRestriction</confidentiality>
    <informationStatus>real</informationStatus>
   </headerInformation>
   <situationRecord xsi:type="{SituationRecordType}"
id="{SituationRecordId}" version="1">

<situationRecordCreationReference>{SituationRecordId}</situationRecordCreationReference>

<situationRecordCreationTime>{CreationTime}</situationRecordCreationTime>

<situationRecordVersionTime>{VersionTime}</situationRecordVersionTime>

<situationRecordFirstSupplierVersionTime>{VersionTime}</situationRecordFirstSupplierVersionTime>

<probabilityOfOccurrence>{ProbabilityOfOccurrence}</probabilityOfOccurrence>
    <source>

<sourceIdentification>{NATIONAL_IDENTIFIER}</sourceIdentification>
     <sourceName>
     <values>
      <value lang="en">{NATIONAL_IDENTIFIER}</value>
     </values>
     </sourceName>
     <sourceType>roadAuthorities</sourceType>
    </source>
    <validity>
     <validityStatus>{ValidityStatus}</validityStatus>
     <validityTimeSpecification>
      <overallStartTime>{OverallStartTime}</overallStartTime>
     </validityTimeSpecification>
    </validity>
    <impact>

<numberOfLanesRestricted>{NumberOfLanesRestricted}</numberOfLanesRestricted>
    </impact>
    <generalPublicComment>
     <comment>
      <values>
```

```
      <value lang="en">{GeneralPublicComment}</value>
     </values>
    </comment>
   </generalPublicComment>
   <groupOfLocations xsi:type="Linear">
     {TPEG_LINEAR_LOCATION}
   </groupOfLocations>
   <obstructionType>obstructionOnTheRoad</obstructionType>
  </situationRecord>
 </situation>


 </payloadPublication>
</d2LogicalModel>
</soapenv:Body>
</soapenv:Envelope>
```

TOKEN	VALUE	AVAILABLE?
{COUNTRY}	This is the country from which the DATEX publication originates.	No
{NATIONAL_IDENTIFIER}	The identifier that describes the national organisation from which the DATEX publication originates.	No
{TIMESTAMP}	The timestamp of the publication. The format is as the following example: **2008-06-13T14:55:01+01:00**	No
{SituationRecordId}	Derived id of the format: *Alpha Character_Alphanumeric String.*	No
{OverallImpact}	The overall assessment of the impact (in terms of severity) that the situation as a whole is having, or will have, on the traffic flow as perceived by the supplier. Uses the DATEX **OverallImpactEnum**. See the DATEX 2 Data Model Version 2.3 for details of this enumeration	No
{SituationRecordType}	See the DATEX 2 Data Model Version 2.3 for details of these classes.	No
{CreationTime}	The value of **CreationTime**. This is the date and time that the publication was created.	No
{Version}	This is the version number of the individual event within the publication and is a numeric, integer value.	No
{VersionTime}	The value of **VersionTime**. This is the date and time that the specific event version was created.	No

TOKEN	VALUE	AVAILABLE?
{ProbabilityOfOccurrence}	Uses the DATEX **ProbablityOfOccurrenceEnum**. See the DATEX 2 Data Model Version 2.3 for details of this enumeration.	No
{ValidityStatus}	Specification of validity, either explicitly overriding the validity time specification or confirming it. Uses the DATEX **ValidityStatusEnum**. See the DATEX 2 Data Model Version 2.3 for details of this enumeration.	No
{OverallStartTime}	The date and overall start time of the event.	No
{OverallEndTime}	The date and overall end time of the event.	No
{ImpactOnTraffic}	Uses the DATEX **TrafficStatusEnum**. See the DATEX 2 Data Model Version 2.3 for details of this enumeration.	No
{NumberOfLanesRestricted}	Numeric value to represent the lanes affected.	No
{NumberOfOperationalLanes}	Numeric value to represent the operational lanes.	No
{TrafficRestrictionType}	DATEX **TrafficRestrictionTypeEnum.** See the DATEX 2 Data Model Version 2.3 for details of this enumeration.	No
{DelayCoded}	DATEX **DelayCodeEnum**. See the DATEX 2 Data Model Version 2.3 for details of this enumeration.	No
{DelaysType}	DATEX **DelaysTypeEnum**. See the DATEX 2 Data Model Version 2.3 for details of this enumeration.	No
{CauseDescription}	Description of a cause which is not managed by the operator (e.g. an off network cause).	No
{GeneralPublicComment}	Free text description of the event.	No
{HardShoulderAffected}	If this is non-null it will correspond to the DATEX **LanesEnum** value of **hardShoulder** to indicate that this has been affected by the event. See the DATEX 2 Data Model Version 2.3 for details of this enumeration.	No
{Lane1Affected}..{Lane6Affected}	If any of these are non-null they will correspond to the DATEX **LanesEnum** values of **lane1** to **lane6** to indicate that the lane affected by the event. See the DATEX	No

TOKEN	VALUE	AVAILABLE?
	2 Data Model Version 2.3 for details of this enumeration.	
{AllLanesAffected}	If this is not null then will respond to the DATEX LanesEnum value of **allLanesCompleteCarriageway**. . See the DATEX 2 Data Model Version 2.3 for details of this enumeration.	No
{LocationDescriptor}	Specifies a descriptor which helps to identify the specific location. This uses the DATEX **LocationDescriptorEnum.** See the DATEX 2 Data Model Version 2.3 for details of this enumeration.	No
{TPEG_POINT_LOCATION}	**See ERROR! REFERENCE SOURCE NOT FOUND.**	**No**
{OperatorActionStatus}	The Status of the defined operator action. Uses the DATEX **OperatorActionStatusEnum**. See the DATEX 2 Data Model Version 2.3 for details of this enumeration.	No
{EffectOnRoadLayout}	The effect which roadworks have or are expected to have on the road. This value can be used to correspond to one of the DATEX **EffectOnRoadLayoutEnum** values that are not specifically indicated in the template. See the DATEX 2 Data Model Version 2.3 for details of this enumeration.	No
{CarriagewayClosures}	If this is non-null then it corresponds to the **EffectonRoadLayoutEnum** value of **carriagewayClosures**.	No
{Contraflow}	If this is non-null then it corresponds to the **EffectonRoadLayoutEnum** value of **contraflow**.	No
{LaneClosures}	If this is non-null then it corresponds to the **EffectonRoadLayoutEnum** value of **laneClosures**.	No
{NarrowLanes}	If this is non-null then it corresponds to the **EffectonRoadLayoutEnum** value of **narrowLanes**.	No
{RoadLayoutUnchanged}	If this is non-null then it corresponds to the **EffectonRoadLayoutEnum** value of **roadLayoutUnchanged**.	No
{TemporaryTrafficLights}	If this is non-null then it corresponds to the **EffectonRoadLayoutEnum** value of **temporaryTrafficLights.**	No

TOKEN	VALUE	AVAILABLE?
{UrgentRoadworks}	Applicable to roadworks events. Boolean value.	No
{DatexEnumType}	Represents the name of the tag containing the "sub-type" enumeration for the Situation Record. See the DATEX 2 Data Model Version 2.3 for details of these enumerations.	No
{DatexEnumValue}	Represents the value of the **DatexEnumType** tag.	No

4.5.2   Current Roadworks

Please refer to the template for Unplanned Events for the description of each token. The following table indicates only whether the fields are available within the Traffic Scotland publication.

TOKEN	AVAILABLE?
`{COUNTRY}`	Yes
`{NATIONAL_IDENTIFIER}`	Yes
`{TIMESTAMP}`	Yes
`{SituationRecordId}`	Yes
`{OverallImpact}`	No
`{SituationRecordType}`	Yes
`{CreationTime}`	Yes
`{Version}`	Yes
`{VersionTime}`	Yes
`{ProbabilityOfOccurrence}`	Yes
`{ValidityStatus}`	Yes
`{OverallStartTime}`	Yes
`{OverallEndTime}`	Yes
`{ImpactOnTraffic}`	No
`{NumberOfLanesRestricted}`	Yes
`{NumberOfOperationalLanes}`	Yes
`{TrafficRestrictionType}`	No

TOKEN	AVAILABLE?
{DelayCoded}	Yes
{DelaysType}	Yes
{CauseDescription}	No
{GeneralPublicComment}	Yes
{HardShoulderAffected}	No
{Lane1Affected}..{Lane6Affected}	No
{AllLanesAffected}	No
{LocationDescriptor}	No
{TPEG_POINT_LOCATION}	Yes
{OperatorActionStatus}	No
{EffectOnRoadLayout}	No
{CarriagewayClosures}	Yes
{Contraflow}	Yes
{LaneClosures}	Yes
{NarrowLanes}	Yes
{RoadLayoutUnchanged}	Yes
{TemporaryTrafficLights}	Yes
{UrgentRoadworks}	Yes
{DatexEnumType}	Yes
{DatexEnumValue}	Yes

4.5.3   Future Roadworks

Please refer to the template for Current Planned Events for the description of each token. The following table indicates only whether the fields are available within the Traffic Scotland publication.

TOKEN	AVAILABLE?
{COUNTRY}	Yes
{NATIONAL_IDENTIFIER}	Yes
{TIMESTAMP}	Yes
{SituationRecordId}	Yes
{OverallImpact}	No

TOKEN	AVAILABLE?
{SituationRecordType}	Yes
{CreationTime}	Yes
{Version}	Yes
{VersionTime}	Yes
{ProbabilityOfOccurrence}	Yes
{ValidityStatus}	Yes
{OverallStartTime}	Yes
{OverallEndTime}	Yes
{ImpactOnTraffic}	No
{NumberOfLanesRestricted}	No
{NumberOfOperationalLanes}	No
{TrafficRestrictionType}	No
{DelayCoded}	No
{DelaysType}	Yes
{CauseDescription}	No
{GeneralPublicComment}	Yes
{HardShoulderAffected}	No
{Lane1Affected}..{Lane6Affected}	No
{AllLanesAffected}	No
{LocationDescriptor}	No
{TPEG_POINT_LOCATION}	Yes
{OperatorActionStatus}	No
{EffectOnRoadLayout}	No
{CarriagewayClosures}	Yes
{Contraflow}	Yes
{LaneClosures}	Yes
{NarrowLanes}	Yes
{RoadLayoutUnchanged}	Yes
{TemporaryTrafficLights}	Yes
{UrgentRoadworks}	Yes

TOKEN	AVAILABLE?
`{DatexEnumType}`	Yes
`{DatexEnumValue}`	Yes

4.5.4 Travel Time Data

```xml
<?xml version="1.0" encoding="UTF-8"?>
<d2LogicalModel modelBaseVersion="2"
xmlns="http://datex2.eu/schema/2/2_0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://datex2.eu/schema/2/2_0
http://datex2.eu/schema/2/2_3/DATEXIISchema_2_2_3.xsd">
 <exchange>
  <supplierIdentification>
   <country>{COUNTRY}</country>
   <nationalIdentifier>{NATIONAL_IDENTIFIER}</nationalIdentifier>
  </supplierIdentification>
 </exchange>
 <payloadPublication xsi:type="MeasuredDataPublication" lang="eng">
  <publicationTime>{TIMESTAMP}</publicationTime>
  <publicationCreator>
   <country>{COUNTRY}</country>
   <nationalIdentifier>{NATIONAL_IDENTIFIER}</nationalIdentifier>
  </publicationCreator>

<measurementSiteTableReference>TravelTimeSites</measurementSiteTable
Reference>
  <headerInformation>
   <confidentiality>noRestriction</confidentiality>
   <informationStatus>real</informationStatus>
  </headerInformation>

  <siteMeasurements>

<measurementSiteReference>{MeasurementSiteReference}</measurementSit
eReference>

<measurementTimeDefault>{MeasurementTimeDefault}</measurementTimeDef
ault>
   <measuredValue index="1">
    <basicDataValue xsi:type="TravelTimeValue">
     <fault>{Fault}</fault>
     <faultReason>
      <value lang="en">{FaultReason}</value>
     </faultReason>

<numberOfIncompleteInputs>{NumberOfIncompleteInputs}</numberOfIncomp
leteInputs>

<numberOfInputValuesUsed>{NumberOfInputValuesUsed}</numberOfInputVal
uesUsed>
     <period>{Period}</period>

<supplierCalculatedDataQuality>{SupplierCalculatedDataQuality}</supp
lierCalculatedDataQuality>
     <travelTime>{TravelTime}</travelTime>
     <freeFlowSpeed>{FreeFlowSpeed}</freeFlowSpeed>
     <freeFlowTravelTime>{FreeFlowTravelTime}</freeFlowTravelTime>

<normallyExpectedTravelTime>{NormallyExpectedTravelTime}</normallyEx
pectedTravelTime>
    </basicDataValue>
   </measuredValue>
  </siteMeasurements>

 </payloadPublication>
```

```
</d2LogicalModel>
```

TOKEN	VALUE	AVAILABLE?
{COUNTRY}	This is the country from which the DATEX publication originates.	Yes
{NATIONAL_IDENTIFIER}	The identifier that describes the national organisation from which the DATEX publication originates.	Yes
{TIMESTAMP}	The timestamp of the publication. The format is as the following example: **2008-06-13T14:55:01+01:00**	Yes
{MeasurementSiteReference}	This is a unique id created for each record at the time of publication. Alphanumeric.	Yes
{MeasurementTimeDefault}	This is set to the current date and time at which the publication is produced.	Yes
{Fault}	Boolean value. Indication of whether the value is deemed to be faulty by the supplier. If not present then the data value is assumed to be correct. This may be used when automatic fault detection information relating to sensors is available.	No
{FaultReason}	The reason why the value is deemed to be faulty by the supplier.	No
{NumberOfIncompleteInputs}	The number of inputs detected but not completed during the sampling or measurement period. E.g. vehicles detected entering but not exiting the detection zone. Numeric integer value (non-negative).	No
{NumberOfInputValuesUsed}	The number of input values used in the sampling or measurement period to determine the data value. Numeric integer value (non-negative).	No
{Period}	The elapsed time between the beginning and the end of the sampling or measurement period in seconds.	No
{SupplierCalculatedDataQuality}	A measure (percentage value) of data quality assigned to the value by the supplier. 100% equates to ideal/perfect quality.	Yes
{TravelTime}	Travel time between the measurement site locations in seconds.	Yes

TOKEN	VALUE	AVAILABLE?
{FreeFlowSpeed}	The free flow speed in kilometres expected under ideal conditions, corresponding to the **{FreeFlowTravelTime}**.	Yes
{FreeFlowTravelTime}	The travel time, in seconds, which would be expected under ideal free flow conditions.	Yes
{NormallyExpectedTravelTime}	The travel time, in seconds, which is expected for the given **{Period}** and any known quasi-static conditions (e.g. long-term roadworks). This value is derived from historical analysis.	Yes

4.5.5   Traffic Status Data

```xml
<?xml version="1.0" encoding="UTF-8"?>
<d2LogicalModel modelBaseVersion="2"
xmlns="http://datex2.eu/schema/2/2_0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://datex2.eu/schema/2/2_0
http://datex2.eu/schema/2/2_3/DATEXIISchema_2_2_3.xsd">
 <exchange>
  <supplierIdentification>
   <country>{COUNTRY}</country>
   <nationalIdentifier>{NATIONAL_IDENTIFIER}</nationalIdentifier>
  </supplierIdentification>
 </exchange>
 <payloadPublication xsi:type="MeasuredDataPublication" lang="eng">
  <publicationTime>{TIMESTAMP}</publicationTime>
  <publicationCreator>
   <country>{COUNTRY}</country>
   <nationalIdentifier>{NATIONAL_IDENTIFIER}</nationalIdentifier>
  </publicationCreator>

<measurementSiteTableReference>TrafficStatusSites</measurementSiteTableReference>
  <headerInformation>
   <confidentiality>noRestriction</confidentiality>
   <informationStatus>real</informationStatus>
  </headerInformation>

  <siteMeasurements>

<measurementSiteReference>{MeasurementSiteReference}</measurementSiteReference>

<measurementTimeDefault>{MeasurementTimeDefault}</measurementTimeDefault>
    <measuredValue index="1">
     <basicDataValue xsi:type="TrafficStatusValue">
      <fault>{Fault}</fault>
      <faultReason>
       <value lang="en">{FaultReason}</value>
```

```
        </faultReason>

<numberOfIncompleteInputs>{NumberOfIncompleteInputs}</numberOfIncom
pleteInputs>

<numberOfInputValuesUsed>{NumberOfInputValuesUsed}</numberOfInputVa
luesUsed>
        <period>{Period}</period>

<supplierCalculatedDataQuality>{SupplierCalculatedDataQuality}</sup
plierCalculatedDataQuality>
        <trafficStatus>{TrafficStatus}</trafficStatus>
        </basicDataValue>
      </measuredValue>
    </siteMeasurements>

  </payloadPublication>
</d2LogicalModel>
```

TOKEN	VALUE	AVAILABLE?
{COUNTRY}	This is the country from which the DATEX publication originates.	Yes
{NATIONAL_IDENTIFIER}	The identifier that describes the national organisation from which the DATEX publication originates.	Yes
{TIMESTAMP}	The timestamp of the publication. The format is as the following example: **2008-06-13T14:55:01+01:00**	Yes
{MeasurementSiteReference}	This is a unique id created for each record at the time of publication. Alphanumeric.	Yes
{MeasurementTimeDefault}	This is set to the current date and time at which the publication is produced.	Yes
{Fault}	Boolean value. Indication of whether the value is deemed to be faulty by the supplier. If not present then the data value is assumed to be correct. This may be used when automatic fault detection information relating to sensors is available.	No
{FaultReason}	The reason why the value is deemed to be faulty by the supplier.	No
{NumberOfIncompleteInputs}	The number of inputs detected but not completed during the sampling or measurement period. E.g. vehicles detected entering but not exiting the detection zone. Numeric integer value (non-negative).	No

TOKEN	VALUE	AVAILABLE?
{NumberOfInputValuesUsed}	The number of input values used in the sampling or measurement period to determine the data value. Numeric integer value (non-negative).	No
{Period}	The elapsed time between the beginning and the end of the sampling or measurement period in seconds.	No
{SupplierCalculatedDataQuality}	A measure (percentage value) of data quality assigned to the value by the supplier. 100% equates to ideal/perfect quality.	No
{TrafficStatus}	DATEX **TrafficStatusEnum**. See the DATEX 2 Data Model Version 2.3 for details of this enumeration.	Yes

4.5.6 VMS

```xml
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<soapenv:Body>
<d2LogicalModel modelBaseVersion="2"
xmlns="http://datex2.eu/schema/2/2_0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://datex2.eu/schema/2/2_0
http://datex2.eu/schema/2/2_3/DATEXIISchema_2_2_3.xsd">
 <exchange>
  <supplierIdentification>
   <country>{COUNTRY}</country>
   <nationalIdentifier>{NATIONAL_IDENTIFIER}</nationalIdentifier>
  </supplierIdentification>
 </exchange>
<payloadPublication xsi:type="VmsPublication" lang="eng">
 <publicationTime>{TIMESTAMP}</publicationTime>
 <publicationCreator>
  <country>{COUNTRY}</country>
  <nationalIdentifier>{NATIONAL_IDENTIFIER}</nationalIdentifier>
 </publicationCreator>
 <headerInformation>
  <confidentiality>noRestriction</confidentiality>
  <informationStatus>real</informationStatus>
 </headerInformation>

 <vmsUnit>
  <vmsUnitTableReference version="1" targetClass="VmsUnitTable"
id="VMSTable"/>
  <vmsUnitReference version="1" targetClass="VmsUnitRecord"
id="VMS_A"/>
  <vms vmsIndex="1">
   <vms>
    <vmsWorking>{WORKING}</vmsWorking>
    <vmsMessage messageIndex="1">
```

```
        <vmsMessage>
          <timeLastSet>{TIMESTAMP}</timeLastSet>
          <textPage pageNumber="1">
           <vmsText>
            <vmsTextLine lineIndex="1">
             <vmsTextLine>
              <vmsTextLine>{VMSLegend}</vmsTextLine>
             </vmsTextLine>
            </vmsTextLine>
           </vmsText>
          </textPage>
         </vmsMessage>
        </vmsMessage>
        <textDisplayAreaSettings>
         <textLanternsOn>true</textLanternsOn>
        </textDisplayAreaSettings>
       </vms>
      </vms>
     </vmsUnit>

 </payloadPublication>
</d2LogicalModel>
</soapenv:Body>
</soapenv:Envelope>
```

TOKEN	VALUE	AVAILABLE?
{COUNTRY}	This is the country from which the DATEX publication originates.	Yes
{NATIONAL_IDENTIFIER}	The identifier that describes the national organisation from which the DATEX publication originates.	Yes
{TIMESTAMP}	The timestamp of the publication. The format is as the following example: **2008-06-13T14:55:01+01:00**	Yes
{WORKING}	true/false – indicates if the VMS is working	Yes
{VMSFault}	Indicates the type of fault which is being recorded for the specified variable message sign. Uses DATEX **VMSFaultEnum**. See the DATEX 2 Data Model Version 2.3 for details of this enumeration.	No
{VMSLegend}	If non-null then free-text containing a single displayed legend row on the specific variable message sign.	Yes (One VMSLegend only)

4.5.7 Travel Time Sites

```xml
<?xml version="1.0" encoding="UTF-8"?>
<d2LogicalModel modelBaseVersion="2"
xmlns="http://datex2.eu/schema/2/2_0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://datex2.eu/schema/2/2_0
http://datex2.eu/schema/2/2_3/DATEXIISchema_2_2_3.xsd">
 <exchange>
  <supplierIdentification>
   <country>{COUNTRY}</country>
   <nationalIdentifier>{NATIONAL_IDENTIFIER}</nationalIdentifier>
  </supplierIdentification>
 </exchange>
 <payloadPublication xsi:type="MeasurementSiteTablePublication"
lang="eng">
  <publicationTime>{TIMESTAMP}</publicationTime>
  <publicationCreator>
   <country>{COUNTRY}</country>
   <nationalIdentifier>{NATIONAL_IDENTIFIER}</nationalIdentifier>
  </publicationCreator>
  <headerInformation>
   <confidentiality>noRestriction</confidentiality>
   <informationStatus>real</informationStatus>
  </headerInformation>
  <measurementSiteTable id="TravelTimeSites">

<measurementSiteTableReference>TravelTimeSites</measurementSiteTable
Reference>

<measurementSiteTableVersion>{VERSION}</measurementSiteTableVersion>

   <measurementSiteRecord id="{MeasurementSiteRecordId}">

<measurementEquipmentReference>{MeasurementEquipmentReference}</meas
urementEquipmentReference>
    <measurementEquipmentTypeUsed>
     <value lang="en">{MeasurementEquipmentTypeUsed}</value>
    </measurementEquipmentTypeUsed>
    <measurementSiteName>
     <value lang="en">{MeasurementSiteName}</value>
    </measurementSiteName>
    <measurementSide>{MeasurementSide}</measurementSide>
    <measurementSpecificCharacteristics index="1">
     <period>{Period}</period>

<specificMeasurementValueType>travelTimeInformation</specificMeasure
mentValueType>
    </measurementSpecificCharacteristics>
    <measurementSiteLocation xsi:type="Linear">
     {TPEG_LINEAR_LOCATION}
    </measurementSiteLocation>
   </measurementSiteRecord>

  </measurementSiteTable>
 </payloadPublication>
</d2LogicalModel>
```

TOKEN	VALUE	AVAILABLE?
{COUNTRY}	This is the country from which the DATEX publication originates.	Yes
{NATIONAL_IDENTIFIER}	The identifier that describes the national organisation from which the DATEX publication originates.	Yes
{TIMESTAMP}	The timestamp of the publication. The format is as the following example: **2008-06-13T14:55:01+01:00**	Yes
{VERSION}	The version number of the publication. Numeric.	Yes
{MeasurementSiteRecordId}	A composite created uniquely for each record to identify it. Usually Alphanumeric.	Yes
{MeasurementEquipmentReference}	The reference given to the measurement equipment at the site. This should be the same as **{MeasurementSiteRecordId}** above.	No
{MeasurementEquipmentTypeUsed}	The type of equipment used to gather the raw information from which the data values are determined.	No
{MeasurementSiteName}	The name of the measurement site.	Yes
{MeasurementSide}	Side of the road on which measurements are acquired, corresponding to the direction of the road. Uses DATEX **DirectionEnum**. See the DATEX 2 Data Model Version 2.3 for details of this enumeration.	Yes
{Period}	The time elapsed between the beginning and end of the sampling or measurements period in seconds.	Yes
{TPEG_LINEAR_LOCATION}	See **Error! Reference source not found.**	Yes.

4.5.8   Traffic Status Sites

```
<?xml version="1.0" encoding="UTF-8"?>
<d2LogicalModel modelBaseVersion="2"
xmlns="http://datex2.eu/schema/2/2_0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

```
xsi:schemaLocation="http://datex2.eu/schema/2/2_0
http://datex2.eu/schema/2/2_3/DATEXIISchema_2_2_3.xsd">
 <exchange>
  <supplierIdentification>
   <country>{COUNTRY}</country>
   <nationalIdentifier>{NATIONAL_IDENTIFIER}</nationalIdentifier>
  </supplierIdentification>
 </exchange>
 <payloadPublication xsi:type="MeasurementSiteTablePublication"
lang="eng">
  <publicationTime>{TIMESTAMP}</publicationTime>
  <publicationCreator>
   <country>{COUNTRY}</country>
   <nationalIdentifier>{NATIONAL_IDENTIFIER}</nationalIdentifier>
  </publicationCreator>
  <headerInformation>
   <confidentiality>noRestriction</confidentiality>
   <informationStatus>real</informationStatus>
  </headerInformation>
  <measurementSiteTable id="TrafficStatusSites">

<measurementSiteTableReference>TrafficStatusSites</measurementSiteTa
bleReference>

<measurementSiteTableVersion>{VERSION}</measurementSiteTableVersion>

   <measurementSiteRecord id="{MeasurementSiteRecordId}">

<measurementEquipmentReference>{MeasurementEquipmentReference}</meas
urementEquipmentReference>
    <measurementEquipmentTypeUsed>
     <value lang="en">{MeasurementEquipmentTypeUsed}</value>
    </measurementEquipmentTypeUsed>
    <measurementSiteName>
     <value lang="en">{MeasurementSiteName}</value>
    </measurementSiteName>
    <measurementSide>{MeasurementSide}</measurementSide>
    <measurementSpecificCharacteristics index="1">
     <period>{Period}</period>

<specificMeasurementValueType>trafficStatusInformation</specificMeas
urementValueType>
    </measurementSpecificCharacteristics>
    <measurementSiteLocation xsi:type="Linear">
     {TPEG_LINEAR_LOCATION}
    </measurementSiteLocation>
   </measurementSiteRecord>

  </measurementSiteTable>
 </payloadPublication>
</d2LogicalModel>
```

TOKEN	VALUE	AVAILABLE?
{COUNTRY}	This is the country from which the DATEX publication originates.	Yes

TOKEN	VALUE	AVAILABLE?
{NATIONAL_IDENTIFIER}	The identifier that describes the national organisation from which the DATEX publication originates.	Yes
{TIMESTAMP}	The timestamp of the publication. The format is as the following example: **2008-06-13T14:55:01+01:00**	Yes
{VERSION}	The version number of the publication. Numeric.	Yes
{MeasurementSiteRecordId}	A composite created uniquely for each record to identify it. Usually Alphanumeric.	Yes
{MeasurementEquipmentReference}	The reference given to the measurement equipment at the site. This should be the same as **{MeasurementSiteRecordId}** above.	No
{MeasurementEquipmentTypeUsed}	The type of equipment used to gather the raw information from which the data values are determined.	No
{MeasurementSiteName}	The name of the measurement site.	Yes
{MeasurementSide}	Side of the road on which measurements are acquired, corresponding to the direction of the road. Uses DATEX **DirectionEnum**. See the DATEX 2 Data Model Version 2.3 for details of this enumeration.	Yes
{Period}	The time elapsed between the beginning and end of the sampling or measurements period in seconds.	Yes
{TPEG_LINEAR_LOCATION}	See **Error! Reference source not found.**	Yes

4.5.9 VMS Table

```xml
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<soapenv:Body>
<d2LogicalModel modelBaseVersion="2"
xmlns="http://datex2.eu/schema/2/2_0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://datex2.eu/schema/2/2_0
http://datex2.eu/schema/2/2_3/DATEXIISchema_2_2_3.xsd">
 <exchange>
  <supplierIdentification>
   <country>{COUNTRY}</country>
   <nationalIdentifier>{NATIONAL_IDENTIFIER}</nationalIdentifier>
  </supplierIdentification>
 </exchange>
 <payloadPublication xsi:type="VmsTablePublication" lang="eng">
  <publicationTime>{TIMESTAMP}</publicationTime>
  <publicationCreator>
   <country>{COUNTRY}</country>
   <nationalIdentifier>{NATIONAL_IDENTIFIER}</nationalIdentifier>
  </publicationCreator>
  <headerInformation>
   <confidentiality>noRestriction</confidentiality>
   <informationStatus>real</informationStatus>
  </headerInformation>
  <vmsUnitTable id="VMSTable" version="1">

   <vmsUnitRecord id="VMS_A" version="1">
    <vmsUnitIdentifier>A</vmsUnitIdentifier>
    <vmsRecord vmsIndex="1">
     <vmsRecord>
      <vmsTextDisplayCharacteristics>
       <maxNumberOfCharacters>21</maxNumberOfCharacters>
       <maxNumberOfRows>3</maxNumberOfRows>
      </vmsTextDisplayCharacteristics>
      <vmsLocation xsi:type="Point">
       {TPEG_FRAMED_POINT}
      </vmsLocation>
     </vmsRecord>
    </vmsRecord>
   </vmsUnitRecord>

  </vmsUnitTable>
 </payloadPublication>
</d2LogicalModel>
</soapenv:Body>
</soapenv:Envelope>
```

TOKEN	VALUE	AVAILABLE?
{COUNTRY}	This is the country from which the DATEX publication originates.	Yes
{NATIONAL_IDENTIFIER}	The identifier that describes the national organisation from which the DATEX publication originates.	Yes
{TIMESTAMP}	The timestamp of the publication. The format is as the following example: **2008-06-13T14:55:01+01:00**	Yes
{TPEG_FRAMED_POINT}	See **Error! Reference source not found.**3	Yes

5. XML Examples

This section outlines examples of publication XML output for each of the publications specific to the Traffic Scotland DATEX II feed.
Sections of XML have been removed to aid reading.

5.1 Unplanned Events

```xml
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<soapenv:Body>
<d2LogicalModel modelBaseVersion="2"
xmlns="http://datex2.eu/schema/2/2_0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://datex2.eu/schema/2/2_0
http://datex2.eu/schema/2/2_3/DATEXIISchema_2_2_3.xsd">
 <exchange>
  <supplierIdentification>
   <country>gb</country>
   <nationalIdentifier>TrafficScotland</nationalIdentifier>
  </supplierIdentification>
 </exchange>
 <payloadPublication xsi:type="SituationPublication" lang="eng">
  <publicationTime>2015-12-02T10:02:53+00:00</publicationTime>
  <publicationCreator>
   <country>gb</country>
   <nationalIdentifier>TrafficScotland</nationalIdentifier>
  </publicationCreator>

  <situation id="I_20151126_45_S" version="1">
   <headerInformation>
    <confidentiality>noRestriction</confidentiality>
    <informationStatus>real</informationStatus>
   </headerInformation>
   <situationRecord xsi:type="GeneralObstruction" id="I_20151126_45"
version="1">
```

```xml
<situationRecordCreationReference>I_20151126_45</situationRecordCreationReference>
    <situationRecordCreationTime>2015-11-29T04:07:08+00:00</situationRecordCreationTime>
    <situationRecordVersionTime>2015-11-29T04:07:08+00:00</situationRecordVersionTime>
    <situationRecordFirstSupplierVersionTime>2015-11-29T04:07:08+00:00</situationRecordFirstSupplierVersionTime>
    <probabilityOfOccurrence>certain</probabilityOfOccurrence>
    <source>
     <sourceIdentification>TrafficScotland</sourceIdentification>
     <sourceName>
      <values>
       <value lang="en">TrafficScotland</value>
      </values>
     </sourceName>
     <sourceType>roadAuthorities</sourceType>
    </source>
    <validity>
     <validityStatus>definedByValidityTimeSpec</validityStatus>
     <validityTimeSpecification>
      <overallStartTime>2015-11-26T05:44:45+00:00</overallStartTime>
     </validityTimeSpecification>
    </validity>
    <impact>
     <numberOfLanesRestricted>1</numberOfLanesRestricted>
    </impact>
    <generalPublicComment>
     <comment>
      <values>
       <value lang="en">1 lane restricted Westbound after Junction 16</value>
      </values>
     </comment>
    </generalPublicComment>
    <groupOfLocations xsi:type="Linear">
      <tpegLinearLocation>
       <tpegDirection>westBound</tpegDirection>
       <tpegLinearLocationType>segment</tpegLinearLocationType>
       <to xsi:type="TpegJunction">
        <pointCoordinates>
         <latitude>55.869687</latitude>
         <longitude>-4.264916</longitude>
        </pointCoordinates>
        <name>
         <descriptor>
          <values>
           <value lang="en">J17</value>
          </values>
         </descriptor>

<tpegJunctionPointDescriptorType>junctionName</tpegJunctionPointDescriptorType>
        </name>
        <ilc>
         <descriptor>
          <values>
           <value lang="en">M8</value>
          </values>
         </descriptor>
```

```
<tpegIlcPointDescriptorType>tpegIlcName1</tpegIlcPointDescriptorType
>
        </ilc>
        <otherName>
         <descriptor>
          <values>
           <value lang="en">M8 J17 Great Western Rd (East)</value>
          </values>
         </descriptor>

<tpegOtherPointDescriptorType>intersectionName</tpegOtherPointDescri
ptorType>
        </otherName>
       </to>
       <from xsi:type="TpegJunction">
        <pointCoordinates>
         <latitude>55.869806</latitude>
         <longitude>-4.246669</longitude>
        </pointCoordinates>
        <name>
         <descriptor>
          <values>
           <value lang="en">J16</value>
          </values>
         </descriptor>

<tpegJunctionPointDescriptorType>junctionName</tpegJunctionPointDesc
riptorType>
        </name>
        <ilc>
         <descriptor>
          <values>
           <value lang="en">M8</value>
          </values>
         </descriptor>

<tpegIlcPointDescriptorType>tpegIlcName1</tpegIlcPointDescriptorType
>
        </ilc>
        <otherName>
         <descriptor>
          <values>
           <value lang="en">M8 J16 Craighall Rd</value>
          </values>
         </descriptor>

<tpegOtherPointDescriptorType>intersectionName</tpegOtherPointDescri
ptorType>
        </otherName>
       </from>
     </tpegLinearLocation>
    </groupOfLocations>
    <obstructionType>obstructionOnTheRoad</obstructionType>
   </situationRecord>
  </situation>

  <situation id="I_20151201_453_S" version="1">
   <headerInformation>
    <confidentiality>noRestriction</confidentiality>
    <informationStatus>real</informationStatus>
   </headerInformation>
```

```
    <situationRecord xsi:type="PoorEnvironmentConditions"
id="I_20151201_453" version="14">

<situationRecordCreationReference>I_20151201_453</situationRecordCre
ationReference>
    <situationRecordCreationTime>2015-12-
01T12:55:55+00:00</situationRecordCreationTime>
    <situationRecordVersionTime>2015-12-
02T07:09:24+00:00</situationRecordVersionTime>
    <situationRecordFirstSupplierVersionTime>2015-12-
02T07:09:24+00:00</situationRecordFirstSupplierVersionTime>
    <probabilityOfOccurrence>certain</probabilityOfOccurrence>
    <source>
     <sourceIdentification>TrafficScotland</sourceIdentification>
     <sourceName>
      <values>
       <value lang="en">TrafficScotland</value>
      </values>
     </sourceName>
     <sourceType>roadAuthorities</sourceType>
    </source>
    <validity>
     <validityStatus>definedByValidityTimeSpec</validityStatus>
     <validityTimeSpecification>
      <overallStartTime>2015-12-01T12:55:53+00:00</overallStartTime>
     </validityTimeSpecification>
    </validity>
    <impact>
     <numberOfOperationalLanes>0</numberOfOperationalLanes>
    </impact>
    <generalPublicComment>
     <comment>
      <values>
       <value lang="en">Road users are advised to use caution
crossing the A87 Skye Bridge due to high winds currently affecting
driving conditions.</value>
      </values>
     </comment>
    </generalPublicComment>
    <groupOfLocations xsi:type="Linear">
      <tpegLinearLocation>
       <tpegDirection>bothWays</tpegDirection>
       <tpegLinearLocationType>segment</tpegLinearLocationType>
       <to xsi:type="TpegNonJunctionPoint">
        <pointCoordinates>
         <latitude>57.281611</latitude>
         <longitude>-5.727249</longitude>
        </pointCoordinates>
        <name>
         <descriptor>
          <values>
           <value lang="en">A87</value>
          </values>
         </descriptor>

<tpegOtherPointDescriptorType>linkName</tpegOtherPointDescriptorType
>
        </name>
        <name>
         <descriptor>
          <values>
           <value lang="en">A87 Kyle</value>
```

```
          </values>
         </descriptor>

<tpegOtherPointDescriptorType>nonLinkedPointName</tpegOtherPointDesc
riptorType>
         </name>
        </to>
        <from xsi:type="TpegNonJunctionPoint">
         <pointCoordinates>
          <latitude>57.273029</latitude>
          <longitude>-5.746131</longitude>
         </pointCoordinates>
         <name>
          <descriptor>
           <values>
            <value lang="en">A87</value>
           </values>
          </descriptor>

<tpegOtherPointDescriptorType>linkName</tpegOtherPointDescriptorType
>
         </name>
         <name>
          <descriptor>
           <values>
            <value lang="en">A87 Kyleakin</value>
           </values>
          </descriptor>

<tpegOtherPointDescriptorType>nonLinkedPointName</tpegOtherPointDesc
riptorType>
         </name>
        </from>
       </tpegLinearLocation>
      </groupOfLocations>
      <poorEnvironmentType>strongWinds</poorEnvironmentType>
    </situationRecord>
   </situation>

   <situation id="I_20151201_752_S" version="1">
    <headerInformation>
     <confidentiality>noRestriction</confidentiality>
     <informationStatus>real</informationStatus>
    </headerInformation>
    <situationRecord xsi:type="PoorEnvironmentConditions"
id="I_20151201_752" version="1">

<situationRecordCreationReference>I_20151201_752</situationRecordCre
ationReference>
     <situationRecordCreationTime>2015-12-
01T17:59:29+00:00</situationRecordCreationTime>
     <situationRecordVersionTime>2015-12-
01T17:59:29+00:00</situationRecordVersionTime>
     <situationRecordFirstSupplierVersionTime>2015-12-
01T17:59:29+00:00</situationRecordFirstSupplierVersionTime>
     <probabilityOfOccurrence>certain</probabilityOfOccurrence>
     <source>
      <sourceIdentification>TrafficScotland</sourceIdentification>
      <sourceName>
       <values>
        <value lang="en">TrafficScotland</value>
       </values>
```

```
          </sourceName>
          <sourceType>roadAuthorities</sourceType>
        </source>
        <validity>
          <validityStatus>definedByValidityTimeSpec</validityStatus>
          <validityTimeSpecification>
            <overallStartTime>2015-12-01T17:59:21+00:00</overallStartTime>
          </validityTimeSpecification>
        </validity>
        <impact>
          <numberOfOperationalLanes>0</numberOfOperationalLanes>
        </impact>
        <generalPublicComment>
          <comment>
            <values>
              <value lang="en">Road users are advised to use caution
crossing the A898 Erskine Bridge due to high winds currently
affecting driving conditions.</value>
            </values>
          </comment>
        </generalPublicComment>
        <groupOfLocations xsi:type="Linear">
          <tpegLinearLocation>
            <tpegDirection>bothWays</tpegDirection>
            <tpegLinearLocationType>segment</tpegLinearLocationType>
            <to xsi:type="TpegJunction">
              <pointCoordinates>
                <latitude>55.912558</latitude>
                <longitude>-4.468662</longitude>
              </pointCoordinates>
              <name>
                <descriptor>
                  <values>
                    <value lang="en">J1</value>
                  </values>
                </descriptor>

<tpegJunctionPointDescriptorType>junctionName</tpegJunctionPointDesc
riptorType>
              </name>
              <ilc>
                <descriptor>
                  <values>
                    <value lang="en">M898</value>
                  </values>
                </descriptor>

<tpegIlcPointDescriptorType>tpegIlcName1</tpegIlcPointDescriptorType
>
              </ilc>
              <ilc>
                <descriptor>
                  <values>
                    <value lang="en">A898</value>
                  </values>
                </descriptor>

<tpegIlcPointDescriptorType>tpegIlcName2</tpegIlcPointDescriptorType
>
              </ilc>
              <otherName>
                <descriptor>
```

```xml
          <values>
           <value lang="en">M898 J01 Erskine Bridge</value>
          </values>
         </descriptor>

<tpegOtherPointDescriptorType>intersectionName</tpegOtherPointDescri
ptorType>
        </otherName>
       </to>
       <from xsi:type="TpegJunction">
        <pointCoordinates>
         <latitude>55.900943</latitude>
         <longitude>-4.48397</longitude>
        </pointCoordinates>
        <name>
         <descriptor>
          <values>
           <value lang="en">J30</value>
          </values>
         </descriptor>

<tpegJunctionPointDescriptorType>junctionName</tpegJunctionPointDesc
riptorType>
        </name>
        <ilc>
         <descriptor>
          <values>
           <value lang="en">M898</value>
          </values>
         </descriptor>

<tpegIlcPointDescriptorType>tpegIlcName1</tpegIlcPointDescriptorType
>
        </ilc>
        <ilc>
         <descriptor>
          <values>
           <value lang="en">M8</value>
          </values>
         </descriptor>

<tpegIlcPointDescriptorType>tpegIlcName2</tpegIlcPointDescriptorType
>
        </ilc>
        <otherName>
         <descriptor>
          <values>
           <value lang="en">M8 J30 Craigton</value>
          </values>
         </descriptor>

<tpegOtherPointDescriptorType>intersectionName</tpegOtherPointDescri
ptorType>
        </otherName>
       </from>
      </tpegLinearLocation>
    </groupOfLocations>
    <poorEnvironmentType>strongWinds</poorEnvironmentType>
   </situationRecord>
  </situation>

 </payloadPublication>
```

```
</d2LogicalModel>
</soapenv:Body>
</soapenv:Envelope>
```

5.2 Current Roadworks

```xml
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<soapenv:Body>
<d2LogicalModel modelBaseVersion="2"
xmlns="http://datex2.eu/schema/2/2_0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://datex2.eu/schema/2/2_0
http://datex2.eu/schema/2/2_3/DATEXIISchema_2_2_3.xsd">
 <exchange>
  <supplierIdentification>
   <country>gb</country>
   <nationalIdentifier>TrafficScotland</nationalIdentifier>
  </supplierIdentification>
 </exchange>
 <payloadPublication xsi:type="SituationPublication" lang="eng">
  <publicationTime>2015-12-02T09:26:51+00:00</publicationTime>
  <publicationCreator>
   <country>gb</country>
   <nationalIdentifier>TrafficScotland</nationalIdentifier>
  </publicationCreator>

  <situation id="D_AL15620_S" version="1">
   <headerInformation>
    <confidentiality>noRestriction</confidentiality>
    <informationStatus>real</informationStatus>
   </headerInformation>
   <situationRecord xsi:type="MaintenanceWorks" id="D_AL15620"
version="2">

<situationRecordCreationReference>D_AL15620</situationRecordCreation
Reference>
    <situationRecordCreationTime>2015-10-
08T09:52:37+01:00</situationRecordCreationTime>
    <situationRecordVersionTime>2015-10-
08T09:54:10+01:00</situationRecordVersionTime>
    <situationRecordFirstSupplierVersionTime>2015-10-
08T09:54:10+01:00</situationRecordFirstSupplierVersionTime>
    <probabilityOfOccurrence>certain</probabilityOfOccurrence>
    <source>
     <sourceIdentification>TrafficScotland</sourceIdentification>
     <sourceName>
      <values>
       <value lang="en">TrafficScotland</value>
      </values>
     </sourceName>
     <sourceType>roadAuthorities</sourceType>
    </source>
    <validity>
     <validityStatus>definedByValidityTimeSpec</validityStatus>
     <validityTimeSpecification>
      <overallStartTime>2015-11-30T08:00:00+00:00</overallStartTime>
      <overallEndTime>2015-12-04T16:00:00+00:00</overallEndTime>
     </validityTimeSpecification>
    </validity>
    <generalPublicComment>
     <comment>
      <values>
```

```
        <value lang="en">Beattock J15 to Millbank J12 + slip roads -
Litter picking to verges under localised closures to the hard
shoulder
W 510510</value>
       </values>
      </comment>
     </generalPublicComment>
     <groupOfLocations xsi:type="Linear">
       <tpegLinearLocation>
        <tpegDirection>bothWays</tpegDirection>
        <tpegLinearLocationType>segment</tpegLinearLocationType>
        <to xsi:type="TpegNonJunctionPoint">
         <pointCoordinates>
          <latitude>55.428924</latitude>
          <longitude>-3.611931</longitude>
         </pointCoordinates>
         <name>
          <descriptor>
           <values>
            <value lang="en">A74(M)</value>
           </values>
          </descriptor>

<tpegOtherPointDescriptorType>linkName</tpegOtherPointDescriptorType
>
         </name>
         <name>
          <descriptor>
           <values>
            <value lang="en">A74(M) Paddy's Rickle</value>
           </values>
          </descriptor>

<tpegOtherPointDescriptorType>nonLinkedPointName</tpegOtherPointDesc
riptorType>
         </name>
        </to>
        <from xsi:type="TpegJunction">
         <pointCoordinates>
          <latitude>55.312917</latitude>
          <longitude>-3.449571</longitude>
         </pointCoordinates>
         <name>
          <descriptor>
           <values>
            <value lang="en">J15</value>
           </values>
          </descriptor>

<tpegJunctionPointDescriptorType>junctionName</tpegJunctionPointDesc
riptorType>
         </name>
         <ilc>
          <descriptor>
           <values>
            <value lang="en">A74(M)</value>
           </values>
          </descriptor>

<tpegIlcPointDescriptorType>tpegIlcName1</tpegIlcPointDescriptorType
>
         </ilc>
```

```
          <ilc>
           <descriptor>
            <values>
             <value lang="en">A701</value>
            </values>
           </descriptor>

<tpegIlcPointDescriptorType>tpegIlcName2</tpegIlcPointDescriptorType
>
          </ilc>
          <otherName>
           <descriptor>
            <values>
             <value lang="en">A74(M) J15</value>
            </values>
           </descriptor>

<tpegOtherPointDescriptorType>intersectionName</tpegOtherPointDescri
ptorType>
          </otherName>
         </from>
        </tpegLinearLocation>
      </groupOfLocations>
      <urgentRoadworks>false</urgentRoadworks>
      <roadMaintenanceType>roadworks</roadMaintenanceType>
     </situationRecord>
   </situation>

   <situation id="D_AL15621_S" version="1">
    <headerInformation>
     <confidentiality>noRestriction</confidentiality>
     <informationStatus>real</informationStatus>
    </headerInformation>
    <situationRecord xsi:type="MaintenanceWorks" id="D_AL15621"
version="2">

<situationRecordCreationReference>D_AL15621</situationRecordCreation
Reference>
     <situationRecordCreationTime>2015-10-
08T09:53:29+01:00</situationRecordCreationTime>
     <situationRecordVersionTime>2015-10-
08T09:54:43+01:00</situationRecordVersionTime>
     <situationRecordFirstSupplierVersionTime>2015-10-
08T09:54:43+01:00</situationRecordFirstSupplierVersionTime>
     <probabilityOfOccurrence>certain</probabilityOfOccurrence>
     <source>
      <sourceIdentification>TrafficScotland</sourceIdentification>
      <sourceName>
       <values>
        <value lang="en">TrafficScotland</value>
       </values>
      </sourceName>
      <sourceType>roadAuthorities</sourceType>
     </source>
     <validity>
      <validityStatus>definedByValidityTimeSpec</validityStatus>
      <validityTimeSpecification>
       <overallStartTime>2015-11-30T08:00:00+00:00</overallStartTime>
       <overallEndTime>2015-12-04T16:00:00+00:00</overallEndTime>
      </validityTimeSpecification>
     </validity>
     <generalPublicComment>
```

```xml
        <comment>
         <values>
          <value lang="en">Gretna J22 to Beattock J15 + slip roads -
Litter picking to verges under localised closures to the hard
shoulder
W 510510</value>
         </values>
        </comment>
      </generalPublicComment>
      <groupOfLocations xsi:type="Linear">
        <tpegLinearLocation>
         <tpegDirection>bothWays</tpegDirection>
         <tpegLinearLocationType>segment</tpegLinearLocationType>
         <to xsi:type="TpegNonJunctionPoint">
          <pointCoordinates>
           <latitude>55.012879</latitude>
           <longitude>-3.099775</longitude>
          </pointCoordinates>
          <name>
           <descriptor>
            <values>
             <value lang="en">A74(M)</value>
            </values>
           </descriptor>

<tpegOtherPointDescriptorType>linkName</tpegOtherPointDescriptorType
>
          </name>
          <name>
           <descriptor>
            <values>
             <value lang="en">A74(M) Gretna Services</value>
            </values>
           </descriptor>

<tpegOtherPointDescriptorType>nonLinkedPointName</tpegOtherPointDesc
riptorType>
          </name>
         </to>
         <from xsi:type="TpegJunction">
          <pointCoordinates>
           <latitude>55.0015</latitude>
           <longitude>-3.061505</longitude>
          </pointCoordinates>
          <ilc>
           <descriptor>
            <values>
             <value lang="en">A74(M)</value>
            </values>
           </descriptor>

<tpegIlcPointDescriptorType>tpegIlcName1</tpegIlcPointDescriptorType
>
          </ilc>
          <ilc>
           <descriptor>
            <values>
             <value lang="en">A75</value>
            </values>
           </descriptor>
```

```
<tpegIlcPointDescriptorType>tpegIlcName2</tpegIlcPointDescriptorType
>
        </ilc>
        <otherName>
         <descriptor>
          <values>
           <value lang="en">A74(M) / A75 Intersection</value>
          </values>
         </descriptor>

<tpegOtherPointDescriptorType>intersectionName</tpegOtherPointDescri
ptorType>
        </otherName>
       </from>
      </tpegLinearLocation>
    </groupOfLocations>
    <urgentRoadworks>false</urgentRoadworks>
    <roadMaintenanceType>roadworks</roadMaintenanceType>
   </situationRecord>
  </situation>

 </payloadPublication>
</d2LogicalModel>
</soapenv:Body>
</soapenv:Envelope>
```

5.3   Future Roadworks

```xml
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<soapenv:Body>
<d2LogicalModel modelBaseVersion="2"
xmlns="http://datex2.eu/schema/2/2_0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://datex2.eu/schema/2/2_0
http://datex2.eu/schema/2/2_3/DATEXIISchema_2_2_3.xsd">
 <exchange>
  <supplierIdentification>
   <country>gb</country>
   <nationalIdentifier>TrafficScotland</nationalIdentifier>
  </supplierIdentification>
 </exchange>
 <payloadPublication xsi:type="SituationPublication" lang="eng">
  <publicationTime>2015-12-02T10:05:52+00:00</publicationTime>
  <publicationCreator>
   <country>gb</country>
   <nationalIdentifier>TrafficScotland</nationalIdentifier>
  </publicationCreator>

  <situation id="D_AL15647_S" version="1">
   <headerInformation>
    <confidentiality>noRestriction</confidentiality>
    <informationStatus>real</informationStatus>
   </headerInformation>
   <situationRecord xsi:type="MaintenanceWorks" id="D_AL15647"
version="2">

<situationRecordCreationReference>D_AL15647</situationRecordCreation
Reference>
    <situationRecordCreationTime>2015-10-
30T09:10:52+00:00</situationRecordCreationTime>
    <situationRecordVersionTime>2015-10-
30T09:12:49+00:00</situationRecordVersionTime>
    <situationRecordFirstSupplierVersionTime>2015-10-
30T09:12:49+00:00</situationRecordFirstSupplierVersionTime>
    <probabilityOfOccurrence>probable</probabilityOfOccurrence>
    <source>
     <sourceIdentification>TrafficScotland</sourceIdentification>
     <sourceName>
      <values>
       <value lang="en">TrafficScotland</value>
      </values>
     </sourceName>
     <sourceType>roadAuthorities</sourceType>
    </source>
    <validity>
     <validityStatus>definedByValidityTimeSpec</validityStatus>
     <validityTimeSpecification>
      <overallStartTime>2015-12-07T08:00:00+00:00</overallStartTime>
      <overallEndTime>2015-12-11T16:00:00+00:00</overallEndTime>
     </validityTimeSpecification>
    </validity>
    <generalPublicComment>
     <comment>
      <values>
```

```
      <value lang="en">Beattock J15 to Millbank J12 + slip roads -
Litter picking to verges under localised closures to the hard
shoulder
W 510510</value>
       </values>
      </comment>
     </generalPublicComment>
     <groupOfLocations xsi:type="Linear">
       <tpegLinearLocation>
        <tpegDirection>bothWays</tpegDirection>
        <tpegLinearLocationType>segment</tpegLinearLocationType>
        <to xsi:type="TpegJunction">
         <pointCoordinates>
          <latitude>55.501622</latitude>
          <longitude>-3.695489</longitude>
         </pointCoordinates>
         <name>
          <descriptor>
           <values>
            <value lang="en">J13</value>
           </values>
          </descriptor>

<tpegJunctionPointDescriptorType>junctionName</tpegJunctionPointDesc
riptorType>
         </name>
         <ilc>
          <descriptor>
           <values>
            <value lang="en">A74(M)</value>
           </values>
          </descriptor>

<tpegIlcPointDescriptorType>tpegIlcName1</tpegIlcPointDescriptorType
>
         </ilc>
         <ilc>
          <descriptor>
           <values>
            <value lang="en">M74</value>
           </values>
          </descriptor>

<tpegIlcPointDescriptorType>tpegIlcName2</tpegIlcPointDescriptorType
>
         </ilc>
         <ilc>
          <descriptor>
           <values>
            <value lang="en">A702</value>
           </values>
          </descriptor>

<tpegIlcPointDescriptorType>tpegIlcName3</tpegIlcPointDescriptorType
>
         </ilc>
         <otherName>
          <descriptor>
           <values>
            <value lang="en">M74 J13 Abington</value>
           </values>
          </descriptor>
```

```
<tpegOtherPointDescriptorType>intersectionName</tpegOtherPointDescri
ptorType>
         </otherName>
       </to>
       <from xsi:type="TpegNonJunctionPoint">
        <pointCoordinates>
         <latitude>55.4974</latitude>
         <longitude>-3.695308</longitude>
        </pointCoordinates>
        <name>
         <descriptor>
          <values>
           <value lang="en">A74(M)</value>
          </values>
         </descriptor>

<tpegOtherPointDescriptorType>linkName</tpegOtherPointDescriptorType
>
        </name>
        <name>
         <descriptor>
          <values>
           <value lang="en">A74(M) VMS/P</value>
          </values>
         </descriptor>

<tpegOtherPointDescriptorType>nonLinkedPointName</tpegOtherPointDesc
riptorType>
        </name>
       </from>
      </tpegLinearLocation>
     </groupOfLocations>
     <urgentRoadworks>false</urgentRoadworks>
     <roadMaintenanceType>roadworks</roadMaintenanceType>
    </situationRecord>
   </situation>

   <situation id="D_AL15648_S" version="1">
    <headerInformation>
     <confidentiality>noRestriction</confidentiality>
     <informationStatus>real</informationStatus>
    </headerInformation>
    <situationRecord xsi:type="MaintenanceWorks" id="D_AL15648"
version="2">

<situationRecordCreationReference>D_AL15648</situationRecordCreation
Reference>
     <situationRecordCreationTime>2015-10-
30T09:13:35+00:00</situationRecordCreationTime>
     <situationRecordVersionTime>2015-10-
30T09:14:48+00:00</situationRecordVersionTime>
     <situationRecordFirstSupplierVersionTime>2015-10-
30T09:14:48+00:00</situationRecordFirstSupplierVersionTime>
     <probabilityOfOccurrence>probable</probabilityOfOccurrence>
     <source>
      <sourceIdentification>TrafficScotland</sourceIdentification>
      <sourceName>
       <values>
        <value lang="en">TrafficScotland</value>
       </values>
      </sourceName>
```

```
      <sourceType>roadAuthorities</sourceType>
    </source>
    <validity>
     <validityStatus>definedByValidityTimeSpec</validityStatus>
     <validityTimeSpecification>
      <overallStartTime>2015-12-07T08:00:00+00:00</overallStartTime>
      <overallEndTime>2015-12-11T16:00:00+00:00</overallEndTime>
     </validityTimeSpecification>
    </validity>
    <generalPublicComment>
     <comment>
      <values>
       <value lang="en">Gretna J22 to Beattock J15 + slip roads -
Litter picking to verges under localised closures to the hard
shoulder
W 510510</value>
      </values>
     </comment>
    </generalPublicComment>
    <groupOfLocations xsi:type="Linear">
      <tpegLinearLocation>
       <tpegDirection>bothWays</tpegDirection>
       <tpegLinearLocationType>segment</tpegLinearLocationType>
       <to xsi:type="TpegJunction">
        <pointCoordinates>
         <latitude>55.134442</latitude>
         <longitude>-3.369275</longitude>
        </pointCoordinates>
        <name>
         <descriptor>
          <values>
           <value lang="en">J17</value>
          </values>
         </descriptor>

<tpegJunctionPointDescriptorType>junctionName</tpegJunctionPointDesc
riptorType>
        </name>
        <ilc>
         <descriptor>
          <values>
           <value lang="en">A74(M)</value>
          </values>
         </descriptor>

<tpegIlcPointDescriptorType>tpegIlcName1</tpegIlcPointDescriptorType
>
        </ilc>
        <otherName>
         <descriptor>
          <values>
           <value lang="en">A74(M) J17 Muirhouse</value>
          </values>
         </descriptor>

<tpegOtherPointDescriptorType>intersectionName</tpegOtherPointDescri
ptorType>
        </otherName>
       </to>
       <from xsi:type="TpegJunction">
        <pointCoordinates>
         <latitude>55.103477</latitude>
```

```
        <longitude>-3.349595</longitude>
      </pointCoordinates>
      <name>
       <descriptor>
        <values>
         <value lang="en">J18</value>
        </values>
       </descriptor>

<tpegJunctionPointDescriptorType>junctionName</tpegJunctionPointDesc
riptorType>
      </name>
      <ilc>
       <descriptor>
        <values>
         <value lang="en">A74(M)</value>
        </values>
       </descriptor>

<tpegIlcPointDescriptorType>tpegIlcName1</tpegIlcPointDescriptorType
>
      </ilc>
      <otherName>
       <descriptor>
        <values>
         <value lang="en">A74(M) J18 Ecclefechan</value>
        </values>
       </descriptor>

<tpegOtherPointDescriptorType>intersectionName</tpegOtherPointDescri
ptorType>
      </otherName>
     </from>
    </tpegLinearLocation>
   </groupOfLocations>
   <urgentRoadworks>false</urgentRoadworks>
   <roadMaintenanceType>roadworks</roadMaintenanceType>
  </situationRecord>
 </situation>

 </payloadPublication>
</d2LogicalModel>
</soapenv:Body>
</soapenv:Envelope>
```

5.4   Travel Time Data

```xml
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<soapenv:Body>
<d2LogicalModel modelBaseVersion="2"
xmlns="http://datex2.eu/schema/2/2_0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://datex2.eu/schema/2/2_0
http://datex2.eu/schema/2/2_3/DATEXIISchema_2_2_3.xsd">
 <exchange>
  <supplierIdentification>
   <country>gb</country>
   <nationalIdentifier>TrafficScotland</nationalIdentifier>
  </supplierIdentification>
 </exchange>
 <payloadPublication xsi:type="MeasuredDataPublication" lang="eng">
  <publicationTime>2015-12-02T10:05:53+00:00</publicationTime>
  <publicationCreator>
   <country>gb</country>
   <nationalIdentifier>TrafficScotland</nationalIdentifier>
  </publicationCreator>
  <measurementSiteTableReference targetClass="MeasurementSiteTable"
id="TravelTimeSites" version="1"/>
  <headerInformation>
   <confidentiality>noRestriction</confidentiality>
   <informationStatus>real</informationStatus>
  </headerInformation>

  <siteMeasurements>
   <measurementSiteReference targetClass="MeasurementSiteRecord"
id="TT_10" version="1"/>
   <measurementTimeDefault>2015-12-
02T10:00:00+00:00</measurementTimeDefault>
   <measuredValue index="1">
    <measuredValue>
     <basicData xsi:type="TravelTimeData">
      <travelTime>
       <duration>1089</duration>
      </travelTime>
      <freeFlowTravelTime>
       <duration>914</duration>
      </freeFlowTravelTime>
      <normallyExpectedTravelTime>
       <duration>1137</duration>
      </normallyExpectedTravelTime>
      <freeFlowSpeed>
       <speed>61</speed>
      </freeFlowSpeed>
     </basicData>
    </measuredValue>
   </measuredValue>
  </siteMeasurements>

  <siteMeasurements>
   <measurementSiteReference targetClass="MeasurementSiteRecord"
id="TT_100" version="1"/>
   <measurementTimeDefault>2015-04-
16T10:50:00+01:00</measurementTimeDefault>
```

```xml
    <measuredValue index="1">
     <measuredValue>
      <basicData xsi:type="TravelTimeData">
       <travelTime>
        <duration>487</duration>
       </travelTime>
       <freeFlowTravelTime>
        <duration>331</duration>
       </freeFlowTravelTime>
       <normallyExpectedTravelTime>
        <duration>373</duration>
       </normallyExpectedTravelTime>
       <freeFlowSpeed>
        <speed>61</speed>
       </freeFlowSpeed>
      </basicData>
     </measuredValue>
    </measuredValue>
   </siteMeasurements>

   <siteMeasurements>
    <measurementSiteReference targetClass="MeasurementSiteRecord"
id="TT_100000001" version="1"/>
    <measurementTimeDefault>2015-12-
02T10:00:00+00:00</measurementTimeDefault>
    <measuredValue index="1">
     <measuredValue>
      <basicData xsi:type="TravelTimeData">
       <travelTime>
        <duration>59</duration>
       </travelTime>
       <freeFlowTravelTime>
        <duration>49</duration>
       </freeFlowTravelTime>
       <normallyExpectedTravelTime>
        <duration>56</duration>
       </normallyExpectedTravelTime>
       <freeFlowSpeed>
        <speed>69</speed>
       </freeFlowSpeed>
      </basicData>
     </measuredValue>
    </measuredValue>
   </siteMeasurements>

   <siteMeasurements>
    <measurementSiteReference targetClass="MeasurementSiteRecord"
id="TT_100000002" version="1"/>
    <measurementTimeDefault>2015-12-
02T10:00:00+00:00</measurementTimeDefault>
    <measuredValue index="1">
     <measuredValue>
      <basicData xsi:type="TravelTimeData">
       <travelTime>
        <duration>55</duration>
       </travelTime>
       <freeFlowTravelTime>
        <duration>45</duration>
       </freeFlowTravelTime>
       <normallyExpectedTravelTime>
        <duration>54</duration>
       </normallyExpectedTravelTime>
```

```
        <freeFlowSpeed>
         <speed>70</speed>
        </freeFlowSpeed>
       </basicData>
      </measuredValue>
     </measuredValue>
   </siteMeasurements>

   <siteMeasurements>
     <measurementSiteReference targetClass="MeasurementSiteRecord"
id="TT_100000003" version="1"/>
     <measurementTimeDefault>2015-12-
02T10:00:00+00:00</measurementTimeDefault>
     <measuredValue index="1">
      <measuredValue>
       <basicData xsi:type="TravelTimeData">
        <travelTime>
         <duration>64</duration>
        </travelTime>
        <freeFlowTravelTime>
         <duration>56</duration>
        </freeFlowTravelTime>
        <normallyExpectedTravelTime>
         <duration>65</duration>
        </normallyExpectedTravelTime>
        <freeFlowSpeed>
         <speed>70</speed>
        </freeFlowSpeed>
       </basicData>
      </measuredValue>
     </measuredValue>
   </siteMeasurements>

   <siteMeasurements>
     <measurementSiteReference targetClass="MeasurementSiteRecord"
id="TT_100000004" version="1"/>
     <measurementTimeDefault>2015-12-
02T10:00:00+00:00</measurementTimeDefault>
     <measuredValue index="1">
      <measuredValue>
       <basicData xsi:type="TravelTimeData">
        <travelTime>
         <duration>72</duration>
        </travelTime>
        <freeFlowTravelTime>
         <duration>70</duration>
        </freeFlowTravelTime>
        <normallyExpectedTravelTime>
         <duration>70</duration>
        </normallyExpectedTravelTime>
        <freeFlowSpeed>
         <speed>60</speed>
        </freeFlowSpeed>
       </basicData>
      </measuredValue>
     </measuredValue>
   </siteMeasurements>

 </payloadPublication>
</d2LogicalModel>
</soapenv:Body>
</soapenv:Envelope>
```

5.5 Traffic Status Data

```xml
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<soapenv:Body>
<d2LogicalModel modelBaseVersion="2"
xmlns="http://datex2.eu/schema/2/2_0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://datex2.eu/schema/2/2_0
http://datex2.eu/schema/2/2_3/DATEXIISchema_2_2_3.xsd">
 <exchange>
  <supplierIdentification>
   <country>gb</country>
   <nationalIdentifier>TrafficScotland</nationalIdentifier>
  </supplierIdentification>
 </exchange>
 <payloadPublication xsi:type="MeasuredDataPublication" lang="eng">
  <publicationTime>2015-12-02T10:05:53+00:00</publicationTime>
  <publicationCreator>
   <country>gb</country>
   <nationalIdentifier>TrafficScotland</nationalIdentifier>
  </publicationCreator>
  <measurementSiteTableReference targetClass="MeasurementSiteTable"
id="TrafficStatusSites" version="1"/>
  <headerInformation>
   <confidentiality>noRestriction</confidentiality>
   <informationStatus>real</informationStatus>
  </headerInformation>

  <siteMeasurements>
   <measurementSiteReference targetClass="MeasurementSiteRecord"
id="TS_462_N" version="1"/>
   <measurementTimeDefault>2015-11-
30T13:41:00+00:00</measurementTimeDefault>
   <measuredValue index="1">
    <measuredValue>
     <basicData xsi:type="TrafficStatus">
      <trafficStatus>
       <trafficStatusValue>freeFlow</trafficStatusValue>
      </trafficStatus>
     </basicData>
    </measuredValue>
   </measuredValue>
  </siteMeasurements>

  <siteMeasurements>
   <measurementSiteReference targetClass="MeasurementSiteRecord"
id="TS_462_S" version="1"/>
   <measurementTimeDefault>2015-11-
30T13:41:00+00:00</measurementTimeDefault>
   <measuredValue index="1">
    <measuredValue>
     <basicData xsi:type="TrafficStatus">
      <trafficStatus>
       <trafficStatusValue>freeFlow</trafficStatusValue>
      </trafficStatus>
     </basicData>
    </measuredValue>
   </measuredValue>
```

```
      </siteMeasurements>

   <siteMeasurements>
    <measurementSiteReference targetClass="MeasurementSiteRecord"
id="TS_463_N" version="1"/>
    <measurementTimeDefault>2015-12-
02T08:32:01+00:00</measurementTimeDefault>
    <measuredValue index="1">
     <measuredValue>
      <basicData xsi:type="TrafficStatus">
       <trafficStatus>
        <trafficStatusValue>freeFlow</trafficStatusValue>
       </trafficStatus>
      </basicData>
     </measuredValue>
    </measuredValue>
   </siteMeasurements>

   <siteMeasurements>
    <measurementSiteReference targetClass="MeasurementSiteRecord"
id="TS_463_S" version="1"/>
    <measurementTimeDefault>2015-12-
02T08:32:01+00:00</measurementTimeDefault>
    <measuredValue index="1">
     <measuredValue>
      <basicData xsi:type="TrafficStatus">
       <trafficStatus>
        <trafficStatusValue>freeFlow</trafficStatusValue>
       </trafficStatus>
      </basicData>
     </measuredValue>
    </measuredValue>
   </siteMeasurements>

   <siteMeasurements>
    <measurementSiteReference targetClass="MeasurementSiteRecord"
id="TS_464_N" version="1"/>
    <measurementTimeDefault>2015-12-
02T08:56:00+00:00</measurementTimeDefault>
    <measuredValue index="1">
     <measuredValue>
      <basicData xsi:type="TrafficStatus">
       <trafficStatus>
        <trafficStatusValue>freeFlow</trafficStatusValue>
       </trafficStatus>
      </basicData>
     </measuredValue>
    </measuredValue>
   </siteMeasurements>

   <siteMeasurements>
    <measurementSiteReference targetClass="MeasurementSiteRecord"
id="TS_464_S" version="1"/>
    <measurementTimeDefault>2015-12-
02T08:56:00+00:00</measurementTimeDefault>
    <measuredValue index="1">
     <measuredValue>
      <basicData xsi:type="TrafficStatus">
       <trafficStatus>
        <trafficStatusValue>freeFlow</trafficStatusValue>
       </trafficStatus>
      </basicData>
```

```
      </measuredValue>
     </measuredValue>
   </siteMeasurements>

   <siteMeasurements>
    <measurementSiteReference targetClass="MeasurementSiteRecord"
id="TS_465_N" version="1"/>
    <measurementTimeDefault>2015-12-
02T06:32:00+00:00</measurementTimeDefault>
    <measuredValue index="1">
     <measuredValue>
      <basicData xsi:type="TrafficStatus">
       <trafficStatus>
        <trafficStatusValue>freeFlow</trafficStatusValue>
       </trafficStatus>
      </basicData>
     </measuredValue>
    </measuredValue>
   </siteMeasurements>

   <siteMeasurements>
    <measurementSiteReference targetClass="MeasurementSiteRecord"
id="TS_465_S" version="1"/>
    <measurementTimeDefault>2015-12-
02T06:32:00+00:00</measurementTimeDefault>
    <measuredValue index="1">
     <measuredValue>
      <basicData xsi:type="TrafficStatus">
       <trafficStatus>
        <trafficStatusValue>freeFlow</trafficStatusValue>
       </trafficStatus>
      </basicData>
     </measuredValue>
    </measuredValue>
   </siteMeasurements>

   <siteMeasurements>
    <measurementSiteReference targetClass="MeasurementSiteRecord"
id="TS_466_N" version="1"/>
    <measurementTimeDefault>2015-12-
02T06:20:00+00:00</measurementTimeDefault>
    <measuredValue index="1">
     <measuredValue>
      <basicData xsi:type="TrafficStatus">
       <trafficStatus>
        <trafficStatusValue>freeFlow</trafficStatusValue>
       </trafficStatus>
      </basicData>
     </measuredValue>
    </measuredValue>
   </siteMeasurements>

   <siteMeasurements>
    <measurementSiteReference targetClass="MeasurementSiteRecord"
id="TS_466_S" version="1"/>
    <measurementTimeDefault>2015-12-
02T06:20:00+00:00</measurementTimeDefault>
    <measuredValue index="1">
     <measuredValue>
      <basicData xsi:type="TrafficStatus">
       <trafficStatus>
        <trafficStatusValue>freeFlow</trafficStatusValue>
```

```
        </trafficStatus>
      </basicData>
     </measuredValue>
    </measuredValue>
   </siteMeasurements>

   <siteMeasurements>
    <measurementSiteReference targetClass="MeasurementSiteRecord"
id="TS_467_N" version="1"/>
    <measurementTimeDefault>2015-12-
02T06:23:00+00:00</measurementTimeDefault>
    <measuredValue index="1">
     <measuredValue>
      <basicData xsi:type="TrafficStatus">
       <trafficStatus>
        <trafficStatusValue>unknown</trafficStatusValue>
       </trafficStatus>
      </basicData>
     </measuredValue>
    </measuredValue>
   </siteMeasurements>

   <siteMeasurements>
    <measurementSiteReference targetClass="MeasurementSiteRecord"
id="TS_467_S" version="1"/>
    <measurementTimeDefault>2015-12-
02T06:23:00+00:00</measurementTimeDefault>
    <measuredValue index="1">
     <measuredValue>
      <basicData xsi:type="TrafficStatus">
       <trafficStatus>
        <trafficStatusValue>unknown</trafficStatusValue>
       </trafficStatus>
      </basicData>
     </measuredValue>
    </measuredValue>
   </siteMeasurements>

   <siteMeasurements>
    <measurementSiteReference targetClass="MeasurementSiteRecord"
id="TS_468_N" version="1"/>
    <measurementTimeDefault>2015-12-
02T06:14:00+00:00</measurementTimeDefault>
    <measuredValue index="1">
     <measuredValue>
      <basicData xsi:type="TrafficStatus">
       <trafficStatus>
        <trafficStatusValue>freeFlow</trafficStatusValue>
       </trafficStatus>
      </basicData>
     </measuredValue>
    </measuredValue>
   </siteMeasurements>

   <siteMeasurements>
    <measurementSiteReference targetClass="MeasurementSiteRecord"
id="TS_468_S" version="1"/>
    <measurementTimeDefault>2015-12-
02T06:14:00+00:00</measurementTimeDefault>
    <measuredValue index="1">
     <measuredValue>
      <basicData xsi:type="TrafficStatus">
```

```
        <trafficStatus>
         <trafficStatusValue>freeFlow</trafficStatusValue>
        </trafficStatus>
      </basicData>
     </measuredValue>
    </measuredValue>
   </siteMeasurements>

 </payloadPublication>
</d2LogicalModel>
</soapenv:Body>
</soapenv:Envelope>
```

5.6 VMS

```xml
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<soapenv:Body>
<d2LogicalModel modelBaseVersion="2"
xmlns="http://datex2.eu/schema/2/2_0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://datex2.eu/schema/2/2_0
http://datex2.eu/schema/2/2_3/DATEXIISchema_2_2_3.xsd">
 <exchange>
  <supplierIdentification>
   <country>gb</country>
   <nationalIdentifier>TrafficScotland</nationalIdentifier>
  </supplierIdentification>
 </exchange>
 <payloadPublication xsi:type="VmsPublication" lang="eng">
  <publicationTime>2015-12-02T10:08:53+00:00</publicationTime>
  <publicationCreator>
   <country>gb</country>
   <nationalIdentifier>TrafficScotland</nationalIdentifier>
  </publicationCreator>
  <headerInformation>
   <confidentiality>noRestriction</confidentiality>
   <informationStatus>real</informationStatus>
  </headerInformation>

  <vmsUnit>
   <vmsUnitTableReference version="1" targetClass="VmsUnitTable"
id="VMSTable"/>
   <vmsUnitReference version="1" targetClass="VmsUnitRecord"
id="VMS_A"/>
   <vms vmsIndex="1">
    <vms>
     <vmsWorking>true</vmsWorking>
     <vmsMessage messageIndex="1">
      <vmsMessage>
       <timeLastSet>2015-12-02T06:33:41+00:00</timeLastSet>
       <textPage pageNumber="1">
        <vmsText>
         <vmsTextLine lineIndex="1">
          <vmsTextLine>
           <vmsTextLine>FORTH ROAD BR CLOSED  TO HIGH SIDED
VEHS</vmsTextLine>
          </vmsTextLine>
         </vmsTextLine>
        </vmsText>
       </textPage>
      </vmsMessage>
     </vmsMessage>
     <textDisplayAreaSettings>
      <textLanternsOn>true</textLanternsOn>
     </textDisplayAreaSettings>
    </vms>
   </vms>
  </vmsUnit>

  <vmsUnit>
```

```
    <vmsUnitTableReference version="1" targetClass="VmsUnitTable"
id="VMSTable"/>
    <vmsUnitReference version="1" targetClass="VmsUnitRecord"
id="VMS_A1"/>
    <vms vmsIndex="1">
     <vms>
      <vmsWorking>true</vmsWorking>
      <vmsMessage messageIndex="1">
       <vmsMessage>
         <timeLastSet>2015-12-02T10:08:24+00:00</timeLastSet>
         <textPage pageNumber="1">
          <vmsText>
           <vmsTextLine lineIndex="1">
            <vmsTextLine>
             <vmsTextLine>JOURNEY TIME (MIN) A9 PITLOCHRY 26 A9
DALWHINIE 62</vmsTextLine>
            </vmsTextLine>
           </vmsTextLine>
          </vmsText>
         </textPage>
       </vmsMessage>
      </vmsMessage>
      <textDisplayAreaSettings>
       <textLanternsOn>false</textLanternsOn>
      </textDisplayAreaSettings>
     </vms>
    </vms>
   </vmsUnit>

   <vmsUnit>
    <vmsUnitTableReference version="1" targetClass="VmsUnitTable"
id="VMSTable"/>
    <vmsUnitReference version="1" targetClass="VmsUnitRecord"
id="VMS_A10"/>
    <vms vmsIndex="1">
     <vms>
      <vmsWorking>true</vmsWorking>
      <vmsMessage messageIndex="1">
       <vmsMessage>
         <timeLastSet>2015-12-02T07:47:55+00:00</timeLastSet>
         <textPage pageNumber="1">
          <vmsText>
           <vmsTextLine lineIndex="1">
            <vmsTextLine>
             <vmsTextLine>CAUTION HIGH WINDS</vmsTextLine>
            </vmsTextLine>
           </vmsTextLine>
          </vmsText>
         </textPage>
       </vmsMessage>
      </vmsMessage>
      <textDisplayAreaSettings>
       <textLanternsOn>true</textLanternsOn>
      </textDisplayAreaSettings>
     </vms>
    </vms>
   </vmsUnit>

 </payloadPublication>
</d2LogicalModel>
</soapenv:Body>
</soapenv:Envelope>
```

5.7   Travel Time Sites

```xml
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<soapenv:Body>
<d2LogicalModel modelBaseVersion="2"
xmlns="http://datex2.eu/schema/2/2_0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://datex2.eu/schema/2/2_0
http://datex2.eu/schema/2/2_3/DATEXIISchema_2_2_3.xsd">
 <exchange>
  <supplierIdentification>
   <country>gb</country>
   <nationalIdentifier>TrafficScotland</nationalIdentifier>
  </supplierIdentification>
 </exchange>
 <payloadPublication xsi:type="MeasurementSiteTablePublication"
lang="eng">
  <publicationTime>2015-11-25T12:36:28+00:00</publicationTime>
  <publicationCreator>
   <country>gb</country>
   <nationalIdentifier>TrafficScotland</nationalIdentifier>
  </publicationCreator>
  <headerInformation>
   <confidentiality>noRestriction</confidentiality>
   <informationStatus>real</informationStatus>
  </headerInformation>
  <measurementSiteTable id="TravelTimeSites" version="1">

<measurementSiteTableIdentification>TravelTimeSites</measurementSite
TableIdentification>

   <measurementSiteRecord id="TT_10" version="1">
    <measurementSiteName>
     <values>
      <value lang="en">M8 J8 Baillieston to M8 J28 Glasgow
Airport</value>
     </values>
    </measurementSiteName>
    <measurementSide>westBound</measurementSide>
    <measurementSpecificCharacteristics index="1">
     <measurementSpecificCharacteristics>
      <period>300</period>

<specificMeasurementValueType>travelTimeInformation</specificMeasure
mentValueType>
     </measurementSpecificCharacteristics>
    </measurementSpecificCharacteristics>
    <measurementSiteLocation xsi:type="Linear">
     <groupOfLocationsExtension> <tpegLinearLocation>
      <tpegDirection>westBound</tpegDirection>
      <tpegLinearLocationType>segment</tpegLinearLocationType>
      <to xsi:type="TpegJunction">
       <pointCoordinates>
        <latitude>55.860843</latitude>
        <longitude>-4.432921</longitude>
       </pointCoordinates>
       <name>
        <descriptor>
```

```
          <values>
           <value lang="en">J28</value>
          </values>
         </descriptor>

<tpegJunctionPointDescriptorType>junctionName</tpegJunctionPointDesc
riptorType>
        </name>
        <ilc>
         <descriptor>
          <values>
           <value lang="en">M8</value>
          </values>
         </descriptor>

<tpegIlcPointDescriptorType>tpegIlcName1</tpegIlcPointDescriptorType
>
        </ilc>
        <otherName>
         <descriptor>
          <values>
           <value lang="en">M8 J28 Glasgow Airport</value>
          </values>
         </descriptor>

<tpegOtherPointDescriptorType>intersectionName</tpegOtherPointDescri
ptorType>
        </otherName>
       </to>
       <from xsi:type="TpegJunction">
        <pointCoordinates>
         <latitude>55.852695</latitude>
         <longitude>-4.089523</longitude>
        </pointCoordinates>
        <name>
         <descriptor>
          <values>
           <value lang="en">J8</value>
          </values>
         </descriptor>

<tpegJunctionPointDescriptorType>junctionName</tpegJunctionPointDesc
riptorType>
        </name>
        <ilc>
         <descriptor>
          <values>
           <value lang="en">M8</value>
          </values>
         </descriptor>

<tpegIlcPointDescriptorType>tpegIlcName1</tpegIlcPointDescriptorType
>
        </ilc>
        <otherName>
         <descriptor>
          <values>
           <value lang="en">M8 J8 Baillieston</value>
          </values>
         </descriptor>
```

```
<tpegOtherPointDescriptorType>intersectionName</tpegOtherPointDescri
ptorType>
        </otherName>
       </from>
     </tpegLinearLocation>
    </groupOfLocationsExtension>
    </measurementSiteLocation>
   </measurementSiteRecord>

   <measurementSiteRecord id="TT_100" version="1">
    <measurementSiteName>
     <values>
      <value lang="en">A8 Maybury Rd to M8 J2 Claylands</value>
     </values>
    </measurementSiteName>
    <measurementSide>westBound</measurementSide>
    <measurementSpecificCharacteristics index="1">
     <measurementSpecificCharacteristics>
      <period>300</period>

<specificMeasurementValueType>travelTimeInformation</specificMeasure
mentValueType>
     </measurementSpecificCharacteristics>
    </measurementSpecificCharacteristics>
    <measurementSiteLocation xsi:type="Linear">
     <groupOfLocationsExtension> <tpegLinearLocation>
      <tpegDirection>westBound</tpegDirection>
      <tpegLinearLocationType>segment</tpegLinearLocationType>
      <to xsi:type="TpegJunction">
       <pointCoordinates>
        <latitude>55.925879</latitude>
        <longitude>-3.402354</longitude>
       </pointCoordinates>
       <name>
        <descriptor>
         <values>
          <value lang="en">J2</value>
         </values>
        </descriptor>

<tpegJunctionPointDescriptorType>junctionName</tpegJunctionPointDesc
riptorType>
       </name>
       <ilc>
        <descriptor>
         <values>
          <value lang="en">M8</value>
         </values>
        </descriptor>

<tpegIlcPointDescriptorType>tpegIlcName1</tpegIlcPointDescriptorType
>
       </ilc>
       <otherName>
        <descriptor>
         <values>
          <value lang="en">M8 J2 Claylands</value>
         </values>
        </descriptor>
```

```
<tpegOtherPointDescriptorType>intersectionName</tpegOtherPointDescri
ptorType>
        </otherName>
        </to>
        <from xsi:type="TpegNonJunctionPoint">
         <pointCoordinates>
          <latitude>55.941238</latitude>
          <longitude>-3.313249</longitude>
         </pointCoordinates>
         <name>
          <descriptor>
           <values>
            <value lang="en">A8</value>
           </values>
          </descriptor>

<tpegOtherPointDescriptorType>linkName</tpegOtherPointDescriptorType
>
        </name>
        <name>
         <descriptor>
          <values>
           <value lang="en">A8 Maybury Rd</value>
          </values>
         </descriptor>

<tpegOtherPointDescriptorType>nonLinkedPointName</tpegOtherPointDesc
riptorType>
        </name>
        </from>
      </tpegLinearLocation>
     </groupOfLocationsExtension>
     </measurementSiteLocation>
   </measurementSiteRecord>

   <measurementSiteRecord id="TT_100000001" version="1">
    <measurementSiteName>
     <values>
      <value lang="en">M8 junction 8 to junction 9</value>
     </values>
    </measurementSiteName>
    <measurementSide>westBound</measurementSide>
    <measurementSpecificCharacteristics index="1">
     <measurementSpecificCharacteristics>
      <period>300</period>

<specificMeasurementValueType>travelTimeInformation</specificMeasure
mentValueType>
     </measurementSpecificCharacteristics>
     </measurementSpecificCharacteristics>
     <measurementSiteLocation xsi:type="Linear">
      <groupOfLocationsExtension> <tpegLinearLocation>
       <tpegDirection>westBound</tpegDirection>
       <tpegLinearLocationType>segment</tpegLinearLocationType>
       <to xsi:type="TpegJunction">
        <pointCoordinates>
         <latitude>55.862187</latitude>
         <longitude>-4.106828</longitude>
        </pointCoordinates>
        <name>
         <descriptor>
```

```
               <values>
                <value lang="en">J9</value>
               </values>
             </descriptor>

<tpegJunctionPointDescriptorType>junctionName</tpegJunctionPointDesc
riptorType>
             </name>
             <ilc>
              <descriptor>
               <values>
                <value lang="en">M8</value>
               </values>
             </descriptor>

<tpegIlcPointDescriptorType>tpegIlcName1</tpegIlcPointDescriptorType
>
             </ilc>
             <otherName>
              <descriptor>
               <values>
                <value lang="en">M8 Junction 9</value>
               </values>
             </descriptor>

<tpegOtherPointDescriptorType>intersectionName</tpegOtherPointDescri
ptorType>
             </otherName>
           </to>
           <from xsi:type="TpegJunction">
            <pointCoordinates>
             <latitude>55.852695</latitude>
             <longitude>-4.089523</longitude>
            </pointCoordinates>
            <name>
             <descriptor>
              <values>
               <value lang="en">J8</value>
              </values>
             </descriptor>

<tpegJunctionPointDescriptorType>junctionName</tpegJunctionPointDesc
riptorType>
             </name>
             <ilc>
              <descriptor>
               <values>
                <value lang="en">M8</value>
               </values>
             </descriptor>

<tpegIlcPointDescriptorType>tpegIlcName1</tpegIlcPointDescriptorType
>
             </ilc>
             <otherName>
              <descriptor>
               <values>
                <value lang="en">M8 Junction 8</value>
               </values>
             </descriptor>
```

```
<tpegOtherPointDescriptorType>intersectionName</tpegOtherPointDescri
ptorType>
        </otherName>
      </from>
    </tpegLinearLocation>
   </groupOfLocationsExtension>
   </measurementSiteLocation>
  </measurementSiteRecord>


 </measurementSiteTable>
 </payloadPublication>
</d2LogicalModel>
</soapenv:Body>
</soapenv:Envelope>
```

5.8   Traffic Status Sites

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<soapenv:Body>
<d2LogicalModel modelBaseVersion="2"
xmlns="http://datex2.eu/schema/2/2_0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://datex2.eu/schema/2/2_0
http://datex2.eu/schema/2/2_3/DATEXIISchema_2_2_3.xsd">
 <exchange>
  <supplierIdentification>
   <country>gb</country>
   <nationalIdentifier>TrafficScotland</nationalIdentifier>
  </supplierIdentification>
 </exchange>
 <payloadPublication xsi:type="MeasurementSiteTablePublication"
lang="eng">
  <publicationTime>2015-11-25T12:36:27+00:00</publicationTime>
  <publicationCreator>
   <country>gb</country>
   <nationalIdentifier>TrafficScotland</nationalIdentifier>
  </publicationCreator>
  <headerInformation>
   <confidentiality>noRestriction</confidentiality>
   <informationStatus>real</informationStatus>
  </headerInformation>
  <measurementSiteTable id="TrafficStatusSites" version="1">

<measurementSiteTableIdentification>TrafficStatusSites</measurementS
iteTableIdentification>

   <measurementSiteRecord id="TS_462_N" version="1">
    <measurementSiteName>
     <values>
      <value lang="en">M90 Halbeath_N</value>
     </values>
    </measurementSiteName>
    <measurementSide>northBound</measurementSide>
    <measurementSpecificCharacteristics index="1">
```

```
          <measurementSpecificCharacteristics>
           <period>60</period>

<specificMeasurementValueType>trafficStatusInformation</specificMeas
urementValueType>
          </measurementSpecificCharacteristics>
        </measurementSpecificCharacteristics>
        <measurementSiteLocation xsi:type="Linear">
         <groupOfLocationsExtension> <tpegLinearLocation>
          <tpegDirection>northBound</tpegDirection>
          <tpegLinearLocationType>segment</tpegLinearLocationType>
          <to xsi:type="TpegNonJunctionPoint">
           <pointCoordinates>
            <latitude>56.084294</latitude>
            <longitude>-3.400954</longitude>
           </pointCoordinates>
           <name>
            <descriptor>
             <values>
              <value lang="en">M90</value>
             </values>
            </descriptor>

<tpegOtherPointDescriptorType>linkName</tpegOtherPointDescriptorType
>
           </name>
           <name>
            <descriptor>
             <values>
              <value lang="en">M90 Halbeath (North)</value>
             </values>
            </descriptor>

<tpegOtherPointDescriptorType>nonLinkedPointName</tpegOtherPointDesc
riptorType>
           </name>
          </to>
          <from xsi:type="TpegNonJunctionPoint">
           <pointCoordinates>
            <latitude>56.078622</latitude>
            <longitude>-3.394016</longitude>
           </pointCoordinates>
           <name>
            <descriptor>
             <values>
              <value lang="en">M90</value>
             </values>
            </descriptor>

<tpegOtherPointDescriptorType>linkName</tpegOtherPointDescriptorType
>
           </name>
           <name>
            <descriptor>
             <values>
              <value lang="en">M90 Halbeath (South)</value>
             </values>
            </descriptor>

<tpegOtherPointDescriptorType>nonLinkedPointName</tpegOtherPointDesc
riptorType>
           </name>
```

```
      </from>
     </tpegLinearLocation>
    </groupOfLocationsExtension>
    </measurementSiteLocation>
   </measurementSiteRecord>

   <measurementSiteRecord id="TS_462_S" version="1">
    <measurementSiteName>
     <values>
      <value lang="en">M90 Halbeath_S</value>
     </values>
    </measurementSiteName>
    <measurementSide>southBound</measurementSide>
    <measurementSpecificCharacteristics index="1">
     <measurementSpecificCharacteristics>
      <period>60</period>

<specificMeasurementValueType>trafficStatusInformation</specificMeas
urementValueType>
     </measurementSpecificCharacteristics>
    </measurementSpecificCharacteristics>
    <measurementSiteLocation xsi:type="Linear">
     <groupOfLocationsExtension> <tpegLinearLocation>
      <tpegDirection>southBound</tpegDirection>
      <tpegLinearLocationType>segment</tpegLinearLocationType>
      <to xsi:type="TpegNonJunctionPoint">
       <pointCoordinates>
        <latitude>56.078622</latitude>
        <longitude>-3.394016</longitude>
       </pointCoordinates>
       <name>
        <descriptor>
         <values>
          <value lang="en">M90</value>
         </values>
        </descriptor>

<tpegOtherPointDescriptorType>linkName</tpegOtherPointDescriptorType
>
       </name>
       <name>
        <descriptor>
         <values>
          <value lang="en">M90 Halbeath (South)</value>
         </values>
        </descriptor>

<tpegOtherPointDescriptorType>nonLinkedPointName</tpegOtherPointDesc
riptorType>
       </name>
      </to>
      <from xsi:type="TpegNonJunctionPoint">
       <pointCoordinates>
        <latitude>56.084294</latitude>
        <longitude>-3.400954</longitude>
       </pointCoordinates>
       <name>
        <descriptor>
         <values>
          <value lang="en">M90</value>
         </values>
        </descriptor>
```

```
<tpegOtherPointDescriptorType>linkName</tpegOtherPointDescriptorType
>
        </name>
        <name>
         <descriptor>
          <values>
           <value lang="en">M90 Halbeath (North)</value>
          </values>
         </descriptor>

<tpegOtherPointDescriptorType>nonLinkedPointName</tpegOtherPointDesc
riptorType>
        </name>
       </from>
      </tpegLinearLocation>
     </groupOfLocationsExtension>
     </measurementSiteLocation>
    </measurementSiteRecord>

  </measurementSiteTable>
 </payloadPublication>
</d2LogicalModel>
</soapenv:Body>
</soapenv:Envelope>
```

5.9 VMS Table

```xml
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<soapenv:Body>
<d2LogicalModel modelBaseVersion="2"
xmlns="http://datex2.eu/schema/2/2_0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://datex2.eu/schema/2/2_0
http://datex2.eu/schema/2/2_3/DATEXIISchema_2_2_3.xsd">
 <exchange>
  <supplierIdentification>
   <country>gb</country>
   <nationalIdentifier>TrafficScotland</nationalIdentifier>
  </supplierIdentification>
 </exchange>
 <payloadPublication xsi:type="VmsTablePublication" lang="eng">
  <publicationTime>2015-11-25T12:36:29+00:00</publicationTime>
  <publicationCreator>
   <country>gb</country>
   <nationalIdentifier>TrafficScotland</nationalIdentifier>
  </publicationCreator>
  <headerInformation>
   <confidentiality>noRestriction</confidentiality>
   <informationStatus>real</informationStatus>
  </headerInformation>
  <vmsUnitTable id="VMSTable" version="1">

   <vmsUnitRecord id="VMS_A" version="1">
    <vmsUnitIdentifier>A</vmsUnitIdentifier>
    <vmsRecord vmsIndex="1">
     <vmsRecord>
      <vmsTextDisplayCharacteristics>
       <maxNumberOfCharacters>21</maxNumberOfCharacters>
       <maxNumberOfRows>3</maxNumberOfRows>
      </vmsTextDisplayCharacteristics>
      <vmsLocation xsi:type="Point">
       <tpegPointLocation xsi:type="TpegFramedPoint">
        <tpegDirection>southBound</tpegDirection>

<tpegFramedPointLocationType>framedPoint</tpegFramedPointLocationTyp
e>
        <framedPoint xsi:type="TpegNonJunctionPoint">
         <pointCoordinates>
          <latitude>56.395659</latitude>
          <longitude>-3.488501</longitude>
         </pointCoordinates>
         <name>
          <descriptor>
           <values>
            <value lang="en">A9</value>
           </values>
          </descriptor>

<tpegOtherPointDescriptorType>linkName</tpegOtherPointDescriptorType
>
         </name>
         <name>
          <descriptor>
```

```xml
        <values>
         <value lang="en">A9S ½ mile N Broxden Roundabout</value>
        </values>
       </descriptor>

<tpegOtherPointDescriptorType>nonLinkedPointName</tpegOtherPointDescriptorType>
       </name>
      </framedPoint>
      <to xsi:type="TpegJunction">
       <pointCoordinates>
        <latitude>56.407662</latitude>
        <longitude>-3.482552</longitude>
       </pointCoordinates>
       <ilc>
        <descriptor>
         <values>
          <value lang="en">A9</value>
         </values>
        </descriptor>

<tpegIlcPointDescriptorType>tpegIlcName1</tpegIlcPointDescriptorType>
       </ilc>
       <ilc>
        <descriptor>
         <values>
          <value lang="en">A90</value>
         </values>
        </descriptor>

<tpegIlcPointDescriptorType>tpegIlcName2</tpegIlcPointDescriptorType>
       </ilc>
       <ilc>
        <descriptor>
         <values>
          <value lang="en">A85</value>
         </values>
        </descriptor>

<tpegIlcPointDescriptorType>tpegIlcName3</tpegIlcPointDescriptorType>
       </ilc>
       <otherName>
        <descriptor>
         <values>
          <value lang="en">A9 / A90</value>
         </values>
        </descriptor>

<tpegOtherPointDescriptorType>intersectionName</tpegOtherPointDescriptorType>
       </otherName>
      </to>
      <from xsi:type="TpegJunction">
       <pointCoordinates>
        <latitude>56.387646</latitude>
        <longitude>-3.486828</longitude>
       </pointCoordinates>
       <ilc>
        <descriptor>
```

```xml
            <values>
             <value lang="en">A9</value>
            </values>
           </descriptor>

<tpegIlcPointDescriptorType>tpegIlcName1</tpegIlcPointDescriptorType
>
           </ilc>
           <ilc>
            <descriptor>
             <values>
              <value lang="en">A93</value>
             </values>
            </descriptor>

<tpegIlcPointDescriptorType>tpegIlcName2</tpegIlcPointDescriptorType
>
           </ilc>
           <otherName>
            <descriptor>
             <values>
              <value lang="en">A9 Broxden</value>
             </values>
            </descriptor>

<tpegOtherPointDescriptorType>intersectionName</tpegOtherPointDescri
ptorType>
           </otherName>
          </from>
         </tpegPointLocation>
        </vmsLocation>
      </vmsRecord>
     </vmsRecord>
    </vmsUnitRecord>

    <vmsUnitRecord id="VMS_A1" version="1">
     <vmsUnitIdentifier>A1</vmsUnitIdentifier>
     <vmsRecord vmsIndex="1">
      <vmsRecord>
       <vmsTextDisplayCharacteristics>
        <maxNumberOfCharacters>15</maxNumberOfCharacters>
        <maxNumberOfRows>4</maxNumberOfRows>
       </vmsTextDisplayCharacteristics>
       <vmsLocation xsi:type="Point">
        <tpegPointLocation xsi:type="TpegFramedPoint">
         <tpegDirection>northBound</tpegDirection>

<tpegFramedPointLocationType>framedPoint</tpegFramedPointLocationTyp
e>
         <framedPoint xsi:type="TpegNonJunctionPoint">
          <pointCoordinates>
           <latitude>56.434575</latitude>
           <longitude>-3.479367</longitude>
          </pointCoordinates>
          <name>
           <descriptor>
            <values>
             <value lang="en">A9</value>
            </values>
           </descriptor>
```

```
<tpegOtherPointDescriptorType>linkName</tpegOtherPointDescriptorType
>
          </name>
          <name>
           <descriptor>
            <values>
             <value lang="en">A9N Inveralmond</value>
            </values>
           </descriptor>

<tpegOtherPointDescriptorType>nonLinkedPointName</tpegOtherPointDesc
riptorType>
          </name>
         </framedPoint>
         <to xsi:type="TpegNonJunctionPoint">
          <pointCoordinates>
           <latitude>56.565249</latitude>
           <longitude>-3.58411</longitude>
          </pointCoordinates>
          <name>
           <descriptor>
            <values>
             <value lang="en">A9</value>
            </values>
           </descriptor>

<tpegOtherPointDescriptorType>linkName</tpegOtherPointDescriptorType
>
          </name>
          <name>
           <descriptor>
            <values>
             <value lang="en">A9 Dunleld</value>
            </values>
           </descriptor>

<tpegOtherPointDescriptorType>nonLinkedPointName</tpegOtherPointDesc
riptorType>
          </name>
         </to>
         <from xsi:type="TpegNonJunctionPoint">
          <pointCoordinates>
           <latitude>56.419617</latitude>
           <longitude>-3.464795</longitude>
          </pointCoordinates>
          <name>
           <descriptor>
            <values>
             <value lang="en">A9</value>
            </values>
           </descriptor>

<tpegOtherPointDescriptorType>linkName</tpegOtherPointDescriptorType
>
          </name>
          <name>
           <descriptor>
            <values>
             <value lang="en">A9 Inveralmond</value>
            </values>
           </descriptor>
```

```
<tpegOtherPointDescriptorType>nonLinkedPointName</tpegOtherPointDesc
riptorType>
          </name>
        </from>
      </tpegPointLocation>
     </vmsLocation>
    </vmsRecord>
   </vmsRecord>
  </vmsUnitRecord>

 </vmsUnitTable>
 </payloadPublication>
</d2LogicalModel>
</soapenv:Body>
</soapenv:Envelope>
```