

Devi

Deviation data (concerning disruptions of public transport) are typically entered by an information officer and thus quality ensured. All deviations can and should be tagged with the Stops and Lines that are affected by the deviation.

Example 1: a Metro train derails in the common tunnel in central Oslo. There will be severe delays -> Line 1, 2, 3, 4, 5 and 6 are tagged.

Example 2: There is a planned roadwork at Stortorvet, the bus/tram stop cannot be serviced. -> Stop 3010050 (Stortorvet) is tagged.

Data from the Devi web service can be accessed using REST (in fact, it is an RSS feed) or using SOAP.

The SOAP WSDL is available at <http://devi.trafikanten.no/public/deviws.asmx>.

Members

Type	Members	Comments
(Requests)	LineID (int) LineName (string) Dt (DateTime) OnlyShowImportant (bool) OnlyShowPlanned (bool)	
Deviation	ID (int) Header (string) Body (string) ValidFrom (DateTime) ValidTo (DateTime) LastUpdated (DateTime) Published (DateTime) Planned (bool) Important (bool)	Unique Deviation ID Last time edited by information officer When it was made available for the public If the deviation was planned (e.g. a roadwork etc) If tagged as important, must be shown with e.g. a “warning symbol” in GUI

Methods (SOAP)

GetDeviationsByLineID()

Takes a numeric Line ID (e.g. 31 or 2) as parameter and returns a List of Deviations.

GetDeviationsByLineIDExtended() – in production week 45/2009

Takes a numeric Line ID (e.g. 31 or 2), a DateTime, OnlyShowImportant (bool), OnlyShowPlanned (bool) as parameter and returns a List of Deviations.

GetDeviationsByLineName()

Takes a string LineName (e.g. “31” or “31E”), as parameter and returns a List of Deviations.

GetDeviationsByLineNameExtended() – in production week 45/2009

Takes a string LineName (e.g. "31" or "31E"), a DateTime, OnlyShowImportant (bool), OnlyShowPlanned (bool) as parameter and returns a List of Deviations.

GetDeviationsByStopID()

Takes a numeric Stop ID (e.g. 3010010 (Oslo S) or 3010619 (Oslo Bussterminal)) as parameter and returns a List of Deviations.

GetDeviationsByStopIDExtended() – in production week 45/2009

Takes a numeric Stop ID (e.g. 3010010 (Oslo S) or 3010619 (Oslo Bussterminal)) , a DateTime, OnlyShowImportant (bool), OnlyShowPlanned (bool) as parameter and returns a List of Deviations.

Methods (REST)

The following querystring parameters are used in the REST service:

Key	Value	Comment
V	1.0 or 1.1	Use v1.1, as v1.0 is for legacy clients only.
Show	Important All Current Filter	All deviations tagged as important will be returned All deviations will be returned All currently valid deviations will be returned Deviations are filtered by LineID or StopID
Linename	All valid LineIDs	Only used if show=filter.
Stop	All valid StopIDs	Only used if show=filter.
Datetime	Parses several formats, but YYYY-MM-DDTHH:mm is encouraged	Only used if filtered by Line or Stop.

The response is formatted as RSS 2.0 with additional elements:

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<rss version="2.0">
  <channel>
    <title>Devi - Avviksmeldinger fra www.trafikanten.no</title>
    <link>http://devi.trafikanten.no/rss/</link>
    <description>Planlagte og spontane avvik i kollektivtrafikktilbudet.</description>
    <copyright>(c) 2009 Trafikanten AS. Ingen data fra denne tjenesten får gjengis uten kildehenvisning.</copyright>
    <ttl>5</ttl>
    <item>
      <title>Tog Skøyen: Forsinkelser</title>
      <description><![CDATA[Jernbaneverket opplyser at Skøyen stasjon er stengt for togtrafikk på grunn av feil på signalanlegget. Det vil bli forsinkelser og innstillinger på strekningen. NSB arbeider med å skaffe alternativ transport. Ny melding følger]]></description>
      <link>http://devi.trafikanten.no/public/ShowDeviation.aspx?id=4161</link>
      <pubDate>2010-02-15T13:48:28.3570000</pubDate>
      <body><![CDATA[ ]]></body>
```

```

<stops />
<lines>
  <line>
    <ID>300</ID>
    <name>300</name>
  </line>
  <line>
    <ID>9920</ID>
    <name>R20</name>
  </line>
  <line>
    <ID>9921</ID>
    <name>R21</name>
  </line>
</lines>
<transportationtypes>
  <transportationtype>
    <ID>6</ID>
    <name>Tog</name>
  </transportationtype>
</transportationtypes>
<ValidFrom>2010-02-15T13:43:13.0000000</ValidFrom>
<ValidTo>9999-12-31T23:59:59.0000000</ValidTo>
<Planned>False</Planned>
<Important>True</Important>
</item>
<item>
  <title>Flybusekspress F1: Sars gate flyttet</title>
  <description><![CDATA[Sars gate holdeplass er flyttet.]]></description>
  <link>http://devi.trafikanten.no/public/ShowDeviation.aspx?id=3123</link>
  <pubDate>2010-01-26T14:17:44.8570000</pubDate>
  <body><![CDATA[ I forbindelse med byggearbeider i Carl Berner-krysset er holdeplass Sars gate flyttet til andre siden av veien, ved ESSO-
stasjonen i Helgesens gate. ]]></body>
  <stops>
    <stop>
      <ID>3014534</ID>
      <name>Sars gate (kun flybuss) (Oslo)</name>
    </stop>
  </stops>
  <lines>
    <line>
      <ID>1101</ID>
      <name>F1</name>
    </line>
  </lines>
  <transportationtypes>
    <transportationtype>

```

```
<ID>2</ID>  
<name>Buss</name>  
</transportationtype>  
</transportationtypes>  
<ValidFrom>2010-01-05T09:02:25.0000000</ValidFrom>  
<ValidTo>9999-12-31T23:59:59.0000000</ValidTo>  
<Planned>True</Planned>  
<Important>False</Important>  
</item>  
</channel>  
</rss>
```

Show important deviations:

<http://devi.trafikanten.no/rss.aspx?v=1.1&show=important>

Show all deviations on line 1:

<http://devi.trafikanten.no/rss.aspx?v=1.1&show=filter&linename=1>

Show all deviations on Majorstuen (T-bane):

<http://devi.trafikanten.no/rss.aspx?v=1.1&show=filter&stop=3010200>

Show deviations for Haslelund valid at 13:00 2010-02-16:

<http://devi.trafikanten.no/rss.aspx?v=1.1&show=filter&stop=3012004&datetime=2010-02-16T13:00>