



**SIRI in use**

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# SIRI end user and Open Data usage examples



# IDFM

[https://me-deplacer.iledefrance-mobilites.fr/fiches-horaires/...](https://me-deplacer.iledefrance-mobilites.fr/fiches-horaires/)

## API documentation

The screenshot shows the website interface for Ile de France Mobilités. The main navigation bar includes 'Me déplacer', 'Le réseau', 'Tarifs', 'Actus', and 'À propos'. The page title is 'Horaires' (Schedules). A sidebar on the left lists various transport modes: TRAIN/RER, MÉTRO, TRAMWAY, and BUS. Under the TRAIN/RER section, a vertical list of buttons shows RER A (selected), RER B, RER C, RER D, RER E, Train H, Train J, Train K, Train L, and Train N. The main content area is titled 'Ligne RER A' and shows the route from CHATELET LES HALLES to GARE DE NANTERRE PREFECTURE. It features a 'Prochains passages' (Next passages) section with a table of upcoming trains and their arrival times. Below this is a 'Fiches horaires' (Schedule sheets) section with a search form for departure and arrival stations and a date selector. The current date is set to 'Aujourd'hui' (Today).

Station	Destination	Time
A UZAR	> Cergy-Le Haut	2 min
A TROC	> Poissy	10 min
A ZULI	> St Germain en Laye	16 min
A UZAR	> Cergy-Le Haut	21 min
A TROC	> Poissy	29 min
A UZAR	> Cergy-Le Haut	41 min



# How does it look like

## Example

```
"EstimatedCalls": {
  "EstimatedCall": [
    {
      "StopPointRef": {
        "value": "STIF:StopPoint:Q:419166:"
      },
      "ExpectedArrivalTime": "2021-03-16T09:36:27.000Z",
      "ExpectedDepartureTime": "2021-03-16T09:36:27.000Z",
      "AimedArrivalTime": "2021-03-16T09:37:00.000Z",
      "AimedDepartureTime": "2021-03-16T09:37:00.000Z",
      "DestinationDisplay": [
        {
          "value": "PONTAULT LES 4 CHENES"
        }
      ],
      "ArrivalStatus": "onTime",
      "ArrivalProximityText": {
      },
      "ArrivalPlatformName": {
      },
      "DepartureStatus": "onTime"
    },
    {
      "StopPointRef": {
        "value": "STIF:StopPoint:Q:16645:"
      },
      "ExpectedArrivalTime": "2021-03-16T09:39:18.000Z",
      "ExpectedDepartureTime": "2021-03-16T09:39:18.000Z",
      "AimedArrivalTime": "2021-03-16T09:40:00.000Z",
      "AimedDepartureTime": "2021-03-16T09:40:00.000Z",
      "DestinationDisplay": [
        {
          "value": "PONTAULT LES 4 CHENES"
        }
      ],
      "ArrivalStatus": "onTime",
      "ArrivalProximityText": {
      },
      "ArrivalPlatformName": {
      },
      "DepartureStatus": "onTime"
    }
  ]
}
```



# MTA

<http://bustime.mta.info/#305439>

Support both SIRI Lite but XML not JSON (VM and SM services) and GTFS-RT

<https://bustime.mta.info/wiki/Developers/SIRIStopMonitoring>

The screenshot displays the MTA Bus Time website interface. At the top, there is a navigation menu with links for Home, Schedules, Fares & Tolls, Maps, Planned Service Changes, MTA Info, Doing Business With Us, and Transparency. The main content area features the MTA Bus Time logo and a search bar containing the stopcode 305439. Below the search bar, there is a tip: "TIP: Enter an intersection, bus route or bus stop code." and a section titled "Routes available:" listing "B63 Bay Ridge - Cobble Hill" via 5th Av / Atlantic Av. Two route options are shown: "to BAY RIDGE SHORE RD via 5 AV" and "to PIER 6 BKLYN BRIDGE PARK via 5 AV". A map of the area around 5th Avenue and 42nd Street is displayed, with a popup window for stopcode 305439. The popup provides the following information:

- 5 AV/42 ST**  
Stopcode 305439 | Data updated 18 seconds ago
- Buses en-route:**
  - [B63 BAY RIDGE SHORE RD via 5 AV](#)
  - 6 minutes, 1.4 miles away
  - 21 minutes, 4.5 miles away (at terminal)
  - 22 minutes, 4.5 miles away (at terminal)
- While at the bus stop...**  
Send stop code 305439 as a text to 511123  
or check [this stop](#) on your smartphone.
- [Center & Zoom Here](#)



# SIRI ET - Norway



# Norwegian SIRI Profile

– extensive, easy to understand documentation with relevant examples and descriptions

EstimatedVehicleJourney				
	Name	Type	Cardinality	Description
element	LineRef	xsd:NMTOKEN	1: 1	Reference to the Line in question (ID to the corresponding object in the timetable data)
element	DirectionRef	xsd:NMTOKEN	1: 1	Direction reference.  <i>Please note that the field is implemented as mandatory, but is not used as a free standing data type in the Norwegian SIRI profile. If it is not used, this value can be set to 0 (zero).</i>
(choice) element	FramedVehicleJourneyRef	FramedVehicleJourneyRefStructure	1: 1	Reference with date to VehicleJourney in question (ID to the corresponding object in the timetable data).
	EstimatedVehicleJourneyCode	xsd:NMTOKEN		Un-affected replacement departures must be given a new codespace-unique ID.  For example: RUT:VehicleJourney:51-108833-11872056-00
(choice) element	ExtraJourney	xsd:boolean	0: 1	The VehicleJourney in question is a replacement departure.  <i>Must be 'true' if it is a replacement departure.</i>
	Cancellation	xsd:boolean		Used when the VehicleJourney in question is cancelled.  <i>Set to 'true' only if the whole VehicleJourney is cancelled. When only parts of the VehicleJourney is cancelled: use ReferredCall and/or EstimatedCall.</i>
element	JourneyPatternRef	xsd:NMTOKEN	0: 1	Reference to JourneyPattern in question (ID to the corresponding object in the timetable data).



# EnTur Open data SIRI ET - Norway

<https://api.entur.io/realtime/v1/rest/et>





# SIRI ET - Examining an example

The bus departs from a stop.

As it leaves the stop a SIRI ET update is produced.



# SIRI ET - Actual change

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Siri xmlns="http://www.siri.org.uk/siri" xmlns:ns2="http://www.ifopt.org.uk/acsb"
xmlns:ns3="http://www.ifopt.org.uk/ifopt" xmlns:ns4="http://datex2.eu/schema/2_0RC1/2_0" version="2.0">
  <ServiceDelivery>
    <ResponseTimestamp>2021-06-07T20:03:29.830215+02:00</ResponseTimestamp>
    <ProducerRef>ENT</ProducerRef>
    <MoreData>>false</MoreData>
    <EstimatedTimetableDelivery version="2.0">
      <ResponseTimestamp>2021-06-07T20:03:29.830922+02:00</ResponseTimestamp>
      <EstimatedJourneyVersionFrame>
        <RecordedAtTime>2021-06-07T20:03:29.830218+02:00</RecordedAtTime>

        <EstimatedVehicleJourney>
          <LineRef>MOR:Line:100</LineRef>
          <DirectionRef>1</DirectionRef>
          <FramedVehicleJourneyRef>
            <DataFrameRef>2021-06-07</DataFrameRef>
            <DatedVehicleJourneyRef>MOR:ServiceJourney:100_152_1150000043782739</DatedVehicleJourneyRef>
          </FramedVehicleJourneyRef>
          <RecordedCalls>
            <RecordedCall>
              <StopPointRef>NSR:Quay:69467</StopPointRef>
              <Order>52</Order>
              <ActualArrivalTime>2021-06-07T20:02:06.333+02:00</ActualArrivalTime>
              <ActualDepartureTime>2021-06-07T20:03:28.853+02:00</ActualDepartureTime>
            </RecordedCall>
          </RecordedCalls>
          <EstimatedCalls>
            <EstimatedCall>
              <StopPointRef>NSR:Quay:67913</StopPointRef>
              <Order>53</Order>
              <ExpectedArrivalTime>2021-06-07T20:07:37.343+02:00</ExpectedArrivalTime>
              <ExpectedDepartureTime>2021-06-07T20:15:52.843+02:00</ExpectedDepartureTime>
              <EarliestExpectedDepartureTime>2021-06-07T20:15:00+02:00</EarliestExpectedDepartureTime>
            </EstimatedCall>
          </EstimatedCalls>
        </EstimatedVehicleJourney>
      </EstimatedJourneyVersionFrame>
    </EstimatedTimetableDelivery>
  </ServiceDelivery>
</Siri>
```



# SIRI ET - Actual change

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Siri xmlns="http://www.siri.org.uk/siri" xmlns:ns2="http://www.ifopt.org.uk/acsb"
xmlns:ns3="http://www.ifopt.org.uk/ifopt" xmlns:ns4="http://datex2.eu/schema/2_0RC1/2_0" version="2.0">
  <ServiceDelivery>
    <ResponseTimestamp>2021-06-07T20:03:29.830215+02:00</ResponseTimestamp>
    <ProducerRef>ENT</ProducerRef>
    <MoreData>>false</MoreData>
    <EstimatedTimetableDelivery version="2.0">
      <ResponseTimestamp>2021-06-07T20:03:29.830922+02:00</ResponseTimestamp>
      <EstimatedJourneyVersionFrame>
        <RecordedAtTime>2021-06-07T20:03:29.830218+02:00</RecordedAtTime>

        <EstimatedVehicleJourney>
          <LineRef>MOR:Line:100</LineRef>
          <DirectionRef>1</DirectionRef>
          <FramedVehicleJourneyRef>
            <DataFrameRef>2021-06-07</DataFrameRef>
            <DatedVehicleJourneyRef>MOR:ServiceJourney:100_152_1150000043782739</DatedVehicleJourneyRef>
          </FramedVehicleJourneyRef>
          <RecordedCalls>
            <RecordedCall>
              <StopPointRef>NSR:Quay:69467</StopPointRef>
              <Order>52</Order>
              <ActualArrivalTime>2021-06-07T20:02:06.333+02:00</ActualArrivalTime>
              <ActualDepartureTime>2021-06-07T20:03:28.853+02:00</ActualDepartureTime>
            </RecordedCall>
          </RecordedCalls>
          <EstimatedCalls>
            <EstimatedCall>
              <StopPointRef>NSR:Quay:67913</StopPointRef>
              <Order>53</Order>
              <ExpectedArrivalTime>2021-06-07T20:07:37.343+02:00</ExpectedArrivalTime>
              <ExpectedDepartureTime>2021-06-07T20:15:52.843+02:00</ExpectedDepartureTime>
              <EarliestExpectedDepartureTime>2021-06-07T20:15:00+02:00</EarliestExpectedDepartureTime>
            </EstimatedCall>
          </EstimatedCalls>
        </EstimatedVehicleJourney>
      </EstimatedJourneyVersionFrame>
    </EstimatedTimetableDelivery>
  </ServiceDelivery>
</Siri>
```



## Norwegian SIRI ET Profile

- Requirement - Provide full description of journey if anything has changed
- This vehicle journey has 52 recorded Calls and 76 estimated Calls



# DataSize

Full update of one Journey:

Departure report and update of prognosis for next Call

2618 rows in total + wrapper 14 rows

```

1 |<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
2 |<Siri xmlns="http://www.siri.org.uk/siri" xmlns:ns2="http://www.ifopt.org.uk/acsb" xmlns:ns3="http://www.ifopt.org.uk/ifopt" xmlns:ns4="http://datex2.eu/schema/2_0RC1/2_0" version="2.0">
3 |  <ServiceDelivery>
4 |    <ResponseTimestamp>2021-06-07T20:14:05.830215+02:00</ResponseTimestamp>
5 |    <ProducerRef>ENT</ProducerRef>
6 |    <MoreData>false</MoreData>
7 |    <EstimatedTimetableDelivery version="2.0">
8 |      <ResponseTimestamp>2021-06-07T20:14:05.830922+02:00</ResponseTimestamp>
9 |      <EstimatedJourneyVersionFrame>
10 |        <RecordedAtTime>2021-06-07T20:14:05.830218+02:00</RecordedAtTime>
11 |
12 |        <EstimatedVehicleJourney>
13 |          <LineRef>MOR:Line:100</LineRef>
14 |          <DirectionRef>1</DirectionRef>
15 |          <FramedVehicleJourneyRef>
16 |            <DataFrameRef>2021-06-07</DataFrameRef>
17 |            <DatedVehicleJourneyRef>MOR:ServiceJourney:100_152_1150000043782739</DatedVehicleJourneyRef>
18 |          </FramedVehicleJourneyRef>
19 |          <VehicleMode>bus</VehicleMode>
20 |          <PublishedLineName>100</PublishedLineName>
21 |          <DirectionName>Kristiansund</DirectionName>
22 |          <OriginRef>NSR:Quay:70043</OriginRef>
23 |          <DestinationDisplayAtOrigin>Kristiansund</DestinationDisplayAtOrigin>
24 |          <Via>
25 |            <PlaceName>Molde</PlaceName>
26 |          </Via>
27 |          <DestinationName>Kristiansund</DestinationName>
28 |          <OperatorRef>MOR:Operator:249</OperatorRef>
29 |          <Monitored>true</Monitored>
30 |          <DataSource>MOR</DataSource>
31 |          <RecordedCalls>
32 |            <RecordedCall>
33 |              <StopPointRef>NSR:Quay:70043</StopPointRef>
34 |              <Order>1</Order>
35 |              <StopPointName>Skateflukaia</StopPointName>
36 |              <AimedArrivalTime>2021-06-07T17:50:00+02:00</AimedArrivalTime>
37 |              <ActualArrivalTime>2021-06-07T17:42:46.927+02:00</ActualArrivalTime>
38 |              <AimedDepartureTime>2021-06-07T17:50:00+02:00</AimedDepartureTime>
39 |              <ActualDepartureTime>2021-06-07T17:50:26.027+02:00</ActualDepartureTime>
40 |            </RecordedCall>
41 |            <RecordedCall>
42 |              <StopPointRef>NSR:Quay:67015</StopPointRef>
43 |              <Order>2</Order>

```

> 2500 rows

```

2607 |    </EstimatedCall>
2608 |    <EstimatedCall>
2609 |      <StopPointRef>NSR:Quay:69007</StopPointRef>
2610 |      <Order>128</Order>
2611 |      <StopPointName>Kristiansund trafikterminal s</StopPointName>
2612 |      <RequestStop>true</RequestStop>
2613 |      <DestinationDisplay>Kristiansund</DestinationDisplay>
2614 |      <AimedArrivalTime>2021-06-07T21:45:00+02:00</AimedArrivalTime>
2615 |      <ExpectedArrivalTime>2021-06-07T21:44:05.843+02:00</ExpectedArrivalTime>
2616 |      <ArrivalPlatformName>2</ArrivalPlatformName>
2617 |      <ArrivalBoardingActivity>alighting</ArrivalBoardingActivity>
2618 |      <ArrivalStopAssignment>
2619 |        <AimedQuayRef>NSR:Quay:69007</AimedQuayRef>
2620 |        <ExpectedQuayRef>NSR:Quay:69007</ExpectedQuayRef>
2621 |      </ArrivalStopAssignment>
2622 |      <EarliestExpectedDepartureTime>2021-06-07T21:45:00+02:00</EarliestExpectedDepartureTime>
2623 |      <DepartureBoardingActivity>noBoarding</DepartureBoardingActivity>
2624 |    </EstimatedCall>
2625 |  </EstimatedCalls>
2626 |  <IsCompleteStopSequence>true</IsCompleteStopSequence>
2627 | </EstimatedVehicleJourney>
2628 | ..
2629 | </EstimatedJourneyVersionFrame>
2630 | </EstimatedTimetableDelivery>
2631 | </ServiceDelivery>
2632 | </Siri>

```



# DataSize

## Incremental update:

Departure report and update of prognosis for next Call

25 rows in total + wrapper 14 rows

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Siri xmlns="http://www.siri.org.uk/siri" xmlns:ns2="http://www.ifopt.org.uk/acsb"
xmlns:ns3="http://www.ifopt.org.uk/ifopt" xmlns:ns4="http://datex2.eu/schema/2_0RC1/2_0" version="2.0">
  <ServiceDelivery>
    <ResponseTimestamp>2021-06-07T20:03:29.830215+02:00</ResponseTimestamp>
    <ProducerRef>ENT</ProducerRef>
    <MoreData>>false</MoreData>
    <EstimatedTimetableDelivery version="2.0">
      <ResponseTimestamp>2021-06-07T20:03:29.830922+02:00</ResponseTimestamp>
      <EstimatedJourneyVersionFrame>
        <RecordedAtTime>2021-06-07T20:03:29.830218+02:00</RecordedAtTime>

        <EstimatedVehicleJourney>
          <LineRef>MOR:Line:100</LineRef>
          <DirectionRef>1</DirectionRef>
          <FramedVehicleJourneyRef>
            <DataFrameRef>2021-06-07</DataFrameRef>
            <DatedVehicleJourneyRef>MOR:ServiceJourney:100_152_1150000043782739</DatedVehicleJourneyRef>
          </FramedVehicleJourneyRef>
          <RecordedCalls>
            <RecordedCall>
              <StopPointRef>NSR:Quay:69467</StopPointRef>
              <Order>52</Order>
              <ActualArrivalTime>2021-06-07T20:02:06.333+02:00</ActualArrivalTime>
              <ActualDepartureTime>2021-06-07T20:03:28.853+02:00</ActualDepartureTime>
            </RecordedCall>
          </RecordedCalls>
          <EstimatedCalls>
            <EstimatedCall>
              <StopPointRef>NSR:Quay:67913</StopPointRef>
              <Order>53</Order>
              <ExpectedArrivalTime>2021-06-07T20:07:37.343+02:00</ExpectedArrivalTime>
              <ExpectedDepartureTime>2021-06-07T20:15:52.843+02:00</ExpectedDepartureTime>
              <EarliestExpectedDepartureTime>2021-06-07T20:15:00+02:00</EarliestExpectedDepartureTime>
            </EstimatedCall>
          </EstimatedCalls>
        </EstimatedVehicleJourney>

      </EstimatedJourneyVersionFrame>
    </EstimatedTimetableDelivery>
  </ServiceDelivery>
</Siri>

```



## Using SIRI incremental updates

### Incremental updates :

- The subscriber keeps a cache of previous sent reports for a vehicle.
- Changed parts of the data are transferred as they occur.
- Subscriber can get a full update of the cache if necessary.



## Current Norwegian SIRI ET Profile

- Requirement - Provide full description of journey if anything has changed
- Consequence – Large volumes of data needs to be repeated and sent at any small change
- May be not a problem for end-user using SIRI-Lite
- But potentially a challenge for the providing system...





# SIRI SX – Situation Exchange



## SIRI SX – Situation Exchange

- SIRI SX can be used by itself
- SIRI SX can also be used in combination with SIRI ET, SIRI SM or SIRI VM to provide precise deviation information.
- Vehicle Journeys and Calls in SIRI ET/SM/VM can include references to a certain Situation that is separately distributed in SIRI SX

## SIRI SX – when used in combination with SIRI ET/SM/VM

```
<?xml version="1.0" encoding="UTF-8" standalone="no" ?>
<wsdl:NotifySituationExchange xmlns:wsdl="http://wsdl.siri.org.uk" xmlns:siri="http://www.siri.org.uk/siri" xmlns:xsi="http://
www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://wsdl.siri.org.uk file:///C:/Stuff/Siri/SiriXml-v2.0h/xsd/
wsdl_model/siri_wsConsumer-Services.xsd">
  <ServiceDeliveryInfo>...</ServiceDeliveryInfo>
  <Notification>
    <siri:SituationExchangeDelivery version="2.0">
      <siri:ResponseTimestamp>2013-12-17T09:30:47Z</siri:ResponseTimestamp>
      <siri:Situations>
        <siri:PtSituationElement>
          <siri:CreationTime>2013-12-17T09:30:47Z</siri:CreationTime>
          <siri:SituationNumber>12345</siri:SituationNumber>
          <siri:Version>1</siri:Version>
          <siri:Source>...</siri:Source>
          <siri:ValidityPeriod>...</siri:ValidityPeriod>
          <siri:UndefinedReason/>
          <siri:Priority>1</siri:Priority>
          <siri:Audience>public</siri:Audience>
          <siri:Summary xml:lang="sv">På grund av elavbrott står det still i tunnelbanan.</siri:Summary>
          <siri:Summary xml:lang="en">Subway halted due to a power outage.</siri:Summary>
          <siri:Description xml:lang="sv">På grund av elavbrott står det still i tunnelbanan. Felavhjälpning pågår.</
siri:Description>
          <siri:Description xml:lang="en">Subway halted due to a power outage. Trou-bleshooting is underway.</siri:Description>
          <siri:Detail xml:lang="sv">På grund av elavbrott står det still i tunnelbanan sedan klockan 11.20. Felavhjälpning pågår
och beräknas vara klart klockan 11.55.</siri:Detail>
          <siri:Detail xml:lang="en"> Subway halted since 11.20 due to a power outage. Trou-bleshooting is underway and operation is
expected to be restored at 11:55.</siri:Detail>
          <siri:Internal>Elavbrott sektion 199W. </siri:Internal>
          <siri:InfoLinks>...</siri:InfoLinks>
          <siri:Extensions>...</siri:Extensions>
        </siri:PtSituationElement>
      </siri:Situations>
    </siri:SituationExchangeDelivery>
  </Notification>
</SiriExtension/>
</wsdl:NotifySituationExchange>
```



# SIRI SM – when used in combination with SIRI SX

## Reference to Situation from

- affected Call or
- affected VehicleJourney

```
<siri:StopMonitoringDelivery version="2.0">  
  <siri:ResponseTimestamp>2012-08-16T14:11:24+02:00</siri:ResponseTimestamp>  
  <siri:SubscriberRef>XYZ_CONSUMER</siri:SubscriberRef>  
  <siri:SubscriptionRef>S9025014004440001</siri:SubscriptionRef>  
  <siri:Status>true</siri:Status>  
  <siri:ValidUntil>2012-08-16T14:16:24+02:00</siri:ValidUntil>  
  <siri:MonitoredStopVisit>  
    <siri:RecordedAtTime>2012-08-16T14:11:24+02:00</siri:RecordedAtTime>  
    <siri:ItemIdentifier>20</siri:ItemIdentifier>  
    <siri:ValidUntilTime>2012-08-16T14:16:24+02:00</siri:ValidUntilTime>  
    <siri:MonitoringRef>9025014004440001</siri:MonitoringRef>  
    <siri:MonitoredVehicleJourney>  
      <siri:LineRef>9011015000100000</siri:LineRef>  
      <siri:DirectionRef>9014002000120000</siri:DirectionRef>  
      <siri:FramedVehicleJourneyRef>[...]</siri:FramedVehicleJourneyRef>  
      <siri:VehicleMode>rail</siri:VehicleMode>  
      <siri:PublishedLineName>IC2</siri:PublishedLineName>  
      <siri:OperatorRef>VR</siri:OperatorRef>  
      <siri:ProductCategoryRef>NÄRTÅG</siri:ProductCategoryRef>  
      <siri:ServiceFeatureRef>schoolBus</siri:ServiceFeatureRef>  
      <siri:VehicleFeatureRef>lowFloor</siri:VehicleFeatureRef>  
      <siri:OriginName xml:lang="sv">Åbo</siri:OriginName>  
      <siri:OriginName xml:lang="fi">Turku</siri:OriginName>  
      <siri:Via>[...]</siri:Via>  
      <siri:DestinationName xml:lang="sv">Helsingfors</siri:DestinationName>  
      <siri:DestinationName xml:lang="fi">Helsinki</siri:DestinationName>  
      <siri:DestinationShortName xml:lang="se">H-fors</siri:DestinationShortName>  
      <siri:OriginAimedDepartureTime>2012-08-16T14:10:00+02:00</siri:OriginAimedDepartureTime>  
      <siri:DestinationAimedArrivalTime>2012-08-16T14:12:00+02:00</siri:DestinationAimedArrivalTime>  
      <siri:Monitored>true</siri:Monitored>  
      <siri:PredictionInaccurate>false</siri:PredictionInaccurate>  
      <siri:VehicleStatus>inProgress</siri:VehicleStatus>  
      <siri:MonitoredCall>  
        <siri:StopPointRef>9025014004440001</siri:StopPointRef>  
        <siri:VisitNumber>1</siri:VisitNumber>  
        <siri:Order>5</siri:Order>  
        <siri:StopPointName xml:lang="sv">Kyrkslätt</siri:StopPointName>  
        <siri:StopPointName xml:lang="fi">Kirkkonummi</siri:StopPointName>  
        <siri:VehicleAtStop>true</siri:VehicleAtStop>  
        <siri:TimingPoint>false</siri:TimingPoint>  
        <siri:RequestStop>false</siri:RequestStop>  
        <siri:DestinationDisplay xml:lang="sv">Helsingfors</siri:DestinationDisplay>  
        <siri:DestinationDisplay xml:lang="fi">Helsinki</siri:DestinationDisplay>  
        <siri:SituationRef>  
          <siri:SituationSimpleRef>1222121235</siri:SituationSimpleRef>  
        </siri:SituationRef>  
      </siri:MonitoredCall>  
    </siri:MonitoredVehicleJourney>  
  </siri:MonitoredStopVisit>  
</siri:StopMonitoringDelivery>
```



# When defining SIRI profiles...

- Is data and identifiers compatible with the NeTEx profile?
- Resilient to latency issues
- Guaranteed order of events
- Low latency
- Precision in information
- Separating reporting time and time of event
- Event-driven?
- Incremental updates or not?

# SIRI



# Some ideas...

- Use stable unique identifiers – that are shared between SIRI and NeTEx profiles
  - Look to EPIP or Norwegian profile for inspiration.
  - Suggestion: Consider using EPIP identifier convention
- Consider if several different profiles are relevant in parallel for different purposes



**SIRI**



Thank you for your attention

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