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OAG flightview

Explanation on Return to Ramp, Return from Airborne and Diversion

The OAG flightview database currently handles Return to Ramp, Return from Airborne (Forced Return) and Diversions as follows-

Return to Ramp and Return from Airborne

XML Suppliers

Using flight number **AA392** as an example, which is scheduled to operate **LAS-ORD** but it returns to ramp back to LAS (i.e. the flight did not take off)

- When we receive an update via XML, we currently output the time the flight has arrived back at LAS in the <Arrive> tag, in this case under ORD and populate the <Divert> with LAS. The DST for the original port (ORD) being applied to the arrival time for LAS.
- When the flight then resumes from LAS, we populate the new Estimated and Actual Departure times in the <Depart> tag for LAS keeping the diverted tag populated as LAS.
- As we start to receive revised Estimated and Actual arrival times for ORD, we overwrite the details that were in the <arrive> tag for the return to ramp times for LAS with the times for ORD.

Below, shows the XML message (in full format) with the divert tag as LAS and with the times for return to ramp populated in the <Arrive> tag

```
FlightInfo TransId="109054277">
- <CarrierInfo>
  <Carrier CarrierCd="AA">American Airlines</Carrier>
  </CarrierInfo>
  <FlightDesig>AA392</FlightDesig>
- <Leg>
- <EquipInfo>
  <EquipType Schd="738" Change="N" />
  <AcftReg Act="N912AN" Change="N" />
  </EquipInfo>
- <Depart>
  <City CityCd="LAS">Las Vegas</City>
  <Apt AptCd="LAS">Las Vegas McCarran International Apt</Apt>
  <Trm Schd="1" Change="N" />
  <Gate Act="D10" Change="N" />
  <DateTime Schd="2012-07-10T07:50:00" Est="2012-07-10T08:55:00" Act="2012-07-10T09:00:00" Change="Y" />
  <OffBlock Act="2012-07-10T09:00:00" Change="Y" />
- <Delay>
  <Status StatusCd="DY">Delayed</Status>
  <Detail DetailCd="OUT">Departed out of the gate</Detail>
  <Category CatId="6">None</Category>
  </Delay>
  </Depart>
- <Arrive>
  <City CityCd="CHI">Chicago</City>
  <Apt AptCd="ORD">Chicago O'Hare International Apt</Apt>
  <Trm Schd="3" Change="N" />
  <Gate Act="H8" Change="N" />
  <BaggageClaim Act="7" Change="N" />
  <DateTime Schd="2012-07-10T11:10:00" Est="2012-07-10T11:28:00" Act="2012-07-10T09:20:00" Change="Y" />
  <OnBlock Act="2012-07-10T09:20:00" Change="N" />
- <Delay>
  <Status StatusCd="EY">Early</Status>
  <Detail DetailCd="IN">Arrived in the gate</Detail>
  <Category CatId="6">None</Category>
  </Delay>
  <DivertApt AptCd="LAS" />
  </Arrive>
  <ServiceType SvcTypeCd="J">Passenger - Normal Service</ServiceType>
  </Leg>
```

An update indicating Return from Airborne received via an XML supplier, the same scenario would apply as in the Return to Ramp (above) with the exception that the actual airborne field could be populated.

Below, shows the XML message (in full format) with the divert tag as LAS and with the times for return to ramp populated in the <Arrive> tag and also include times for Airborne

```
FlightInfo TransId="109054277">
- <CarrierInfo>
  <Carrier CarrierCd="AA">American Airlines</Carrier>
  </CarrierInfo>
  <FlightDesig>AA392</FlightDesig>
- <Leg>
- <EquipInfo>
  <EquipType Schd="738" Change="N" />
  <AcftReg Act="N912AN" Change="N" />
  </EquipInfo>
- <Depart>
  <City CityCd="LAS">Las Vegas</City>
  <Apt AptCd="LAS">Las Vegas McCarran International Apt</Apt>
  <Trm Schd="1" Change="N" />
  <Gate Act="D10" Change="N" />
  <DateTime Schd="2012-07-10T07:50:00" Est="2012-07-10T08:55:00" Act="2012-07-10T09:00:00" Change="Y" />
  <OffBlock Act="2012-07-10T09:00:00" Change="Y" />
  <Airborne Est="2012-07-10T09:15:00" Act="2012-07-10T09:17:00" Change="Y" />
- <Delay>
  <Status StatusCd="DY">Delayed</Status>
  <Detail DetailCd="OUT">Departed out of the gate</Detail>
  <Category CatId="6">None</Category>
  </Delay>
  </Depart>
- <Arrive>
  <City CityCd="CHI">Chicago</City>
  <Apt AptCd="ORD">Chicago O'Hare International Apt</Apt>
  <Trm Schd="3" Change="N" />
  <Gate Act="H8" Change="N" />
  <BaggageClaim Act="7" Change="N" />
  <DateTime Schd="2012-07-10T11:10:00" Est="2012-07-10T11:28:00" Act="2012-07-10T09:40:00" Change="Y" />
  <OnBlock Act="2012-07-10T09:20:00" Change="N" />
- <Delay>
  <Status StatusCd="EY">Early</Status>
  <Detail DetailCd="IN">Arrived in the gate</Detail>
  <Category CatId="6">None</Category>
  </Delay>
  <DivertApt AptCd="LAS" />
  </Arrive>
  <ServiceType SvcTypeCd="J">Passenger - Normal Service</ServiceType>
  </Leg>
```

Below, shows the XML message (in full format) with the divert tag as LAS and with the times for revised Estimated Departure, Actual Departure and Estimated Arrival

```
FlightInfo TransId="109054277">
- <CarrierInfo>
  <Carrier CarrierCd="AA">American Airlines</Carrier>
  </CarrierInfo>
  <FlightDesig>AA392</FlightDesig>
- <Leg>
- <EquipInfo>
  <EquipType Schd="738" Change="N" />
  <AcftReg Act="N912AN" Change="N" />
  </EquipInfo>
- <Depart>
  <City CityCd="LAS">Las Vegas</City>
  <Apt AptCd="LAS">Las Vegas McCarran International Apt</Apt>
  <Trm Schd="1" Change="N" />
  <Gate Act="D10" Change="N" />
  <DateTime Schd="2012-07-10T07:50:00" Est="2012-07-10T10:15:00" Act="2012-07-10T10:10:00" Change="Y" />
  <OffBlock Act="2012-07-10T10:10:00" Change="Y" />
<Airborne Est="2012-07-10T09:15:00" Act="2012-07-10T09:17:00" Change="N"/>
- <Delay>
  <Status StatusCd="DY">Delayed</Status>
  <Detail DetailCd="OUT">Departed out of the gate</Detail>
  <Category CatId="6">None</Category>
  </Delay>
  </Depart>
- <Arrive>
  <City CityCd="CHI">Chicago</City>
  <Apt AptCd="ORD">Chicago O'Hare International Apt</Apt>
  <Trm Schd="3" Change="N" />
  <Gate Act="H8" Change="N" />
  <BaggageClaim Act="7" Change="N" />
  <DateTime Schd="2012-07-10T11:10:00" Est="2012-07-10T13:40:00" Act="2012-07-10T09:40:00" Change="N" />
  <OnBlock Act="2012-07-10T08:20:00" Change="N" />
- <Delay>
  <Status StatusCd="EY">Early</Status>
  <Detail DetailCd="IN">Arrived in the gate</Detail>
  <Category CatId="6">None</Category>
  </Delay>
  <DivertApt AptCd="LAS" />
  </Arrive>
  <ServiceType SvcTypeCd="J">Passenger - Normal Service</ServiceType>
  </Leg>
```

Return to Ramp and Return from Airborne

MVT Suppliers

For carriers that update via MVT the Return to Ramp and Return from Airborne are processed slightly differently.

For return to ramp there would be a delay reason code set to **RTR** with the outbound xml message (below XML is in concise format) which shows that the return has occurred -

```
<Flight TransId="-1467103054" Carrier="LH" FltNo="1003">
  <Leg  SvcTypeCd="J">
    <Equip Schd="733" Ch="N">
      <Reg Act="ARNOLD" Ch="N"/>
    </Equip>
    <Dep City="AMS" Apt="AMS">
      <DateTime Schd="2013-05-31T07:15:00" Est="2013-05-31T07:30:00" Act="2013-05-31T07:30:00" Ch="N"/>
      <OffBlock Act="2013-05-31T07:30:00" Ch="N"/>
      <Airborne Est="2013-05-31T08:00:00" Ch="N"/>
      <Delay Det="RTR" CatId="6"/>
    </Dep>
    <Arr City="FRA" Apt="FRA">
      <Trm Schd="1" Ch="N"/>
      <DateTime Schd="2013-05-31T08:30:00" Est="2013-05-31T09:00:00" Ch="N"/>
      <OnBlock Est="2013-05-31T09:00:00" Ch="N"/>
      <Delay Det="RTR" CatId="6"/>
    </Arr>
  </Leg>
</Flight>
```

- After an RTR message has been received, the flight would be reset back to its original scheduled times and would load status updates as though the flight had been re-set.
- In the XML (concise format) example below, the first update after the RTR is an estimated arrival at FRA. This new time is loaded and the RTR code is removed, the departure times are re-set to the original scheduled departure time but retain the RTR code until new estimates and actuals are received for the departure/arrival port.

```
<Flight TransId="-1467100991" Carrier="LH" FltNo="1003">
  <Leg  SvcTypeCd="J">
    <Equip Schd="733" Ch="N">
      <Reg Act="ARNOLD" Ch="N"/>
    </Equip>
    <Dep City="AMS" Apt="AMS">
      <DateTime Schd="2013-05-31T07:15:00" Ch="Y"/>
      <Delay Det="RTR" CatId="6"/>
    </Dep>
    <Arr City="FRA" Apt="FRA">
      <Trm Schd="1" Ch="N"/>
      <DateTime Schd="2013-05-31T08:30:00" Est="2013-05-31T13:00:00" Ch="Y"/>
      <Delay Stat="DY" Det="ETA" CatId="6"/>
    </Arr>
  </Leg>
</Flight>
```

For a return from airborne, the processing for MVT suppliers would be distributed as follows. In the delay field on the outbound XML (example below shows concise format) the code that would be populated would be RFA as highlighted in the example.

```
<Flight TransId="-1467089545" Carrier="LH" FltNo="1002">
  <Leg  SvcTypeCd="J">
    <Equip Schd="733" Ch="N">
      <Reg Act="ABCDEF" Ch="N"/>
    </Equip>
    <Dep City="FRA" Apt="FRA">
      <Trm Schd="1" Ch="N"/>
      <DateTime Schd="2013-05-31T20:55:00" Est="2013-05-31T21:10:00" Act="2013-05-31T21:20:00" Ch="N"/>
      <OffBlock Act="2013-05-31T21:20:00" Ch="N"/>
      <Airborne Est="2013-05-31T21:30:00" Ch="N"/>
      <Delay Det="RFA" CatId="6"/>
    </Dep>
    <Arr City="AMS" Apt="AMS">
      <DateTime Schd="2013-05-31T22:05:00" Est="2013-05-31T23:00:00" Ch="N"/>
      <OnBlock Est="2013-05-31T23:00:00" Ch="N"/>
      <Delay Det="RFA" CatId="6"/>
    </Arr>
  </Leg>
</Flight>
</FIMSSR>
```

Again when a new status message is received for the flight it is re-set back to the scheduled times.
In the XML (concise format) example below we have received a new estimated departure for FRA and the RFA codes have been removed.

```
<Flight TransId="-1467083039" Carrier="LH" FltNo="1002">
  <Leg  SvcTypeCd="J">
    <Equip Schd="733" Ch="N">
      <Reg Act="ABCDEF" Ch="N"/>
    </Equip>
    <Dep City="FRA" Apt="FRA">
      <Trm Schd="1" Ch="N"/>
      <DateTime Schd="2013-05-31T20:55:00" Est="2013-06-01T01:00:00" Ch="Y"/>
      <Delay Stat="DY" Det="ETD" CatId="6"/>
    </Dep>
    <Arr City="AMS" Apt="AMS">
      <DateTime Schd="2013-05-31T22:05:00" Ch="Y"/>
      <Delay Det="ARVS" CatId="6"/>
    </Arr>
  </Leg>
</Flight>
```

Diversion

Similar to Return to Ramp and Return from Airborne received via XML suppliers, when a flight is diverted, the current processing will show the port of diversion in the divert airport field.
When the flight arrives at the port of diversion the arrival times are populated in the actual arrival fields of the original port of arrival. The DST for that original port will be applied to the arrival time. (below XML example is in concise format)

```
Flight TransId="661136833" Carrier="AA" FltNo="127">
- <Leg SvcTypeCd="J">
- <Equip Schd="738" Ch="N">
<Reg Act="N916AN" Ch="N" />
</Equip>
- <Dep City="WAS" Apt="IAD">
<Gate Act="B73" Ch="N" />
<DateTime Schd="2014-11-04T06:25:00" Act="2014-11-04T06:26:00" Ch="N" />
<OffBlock Act="2014-11-04T06:26:00" Ch="N" />
<Airborne Act="2014-11-04T07:12:00" Ch="N" />
<Delay Stat="DY" Det="OFF" CatId="6" />
</Dep>
- <Arr City="DFW" Apt="DFW">
<Trm Schd="0" Act="D" Ch="N" />
<Gate Act="D28" Ch="N" />
<Claim Act="D29" Ch="N" />
<DateTime Schd="2014-11-04T08:45:00" Est="2014-11-04T09:17:00" Ch="N" />
<Delay Stat="DY" Det="ETA" CatId="6" />
<Divert Apt="LIT" />
</Arr>
</Leg>
- <Leg SvcTypeCd="J">
- <Equip Schd="777" Ch="N">
<Reg Act="N793AN" Ch="N" />
</Equip>
- <Dep City="DFW" Apt="DFW">
<Trm Schd="D" Act="D" Ch="N" />
<Gate Act="D25A" Ch="N" />
<DateTime Schd="2014-11-04T10:15:00" Est="2014-11-04T10:30:00" Ch="Y" />
<Delay Stat="DY" Det="ETD" CatId="6" />
</Dep>
- <Arr City="SHA" Apt="PVG">
<Trm Schd="2" Ch="N" />
<DateTime Schd="2014-11-05T15:55:00" Est="2014-11-05T16:18:00" Ch="Y" />
<Delay Stat="DY" Det="ETA" CatId="6" />
</Arr>
</Leg>
</Flight>
```

If the flight is part of a multi legged flight we would not have the departure time from the port of diversion as we would not hold a base schedule for the leg. The next update would be for the departure information at the port of departure on the next leg.