What's different with the latest version of Wind Integration Web Services?

Wind plant identification in web services has been changed to allow usage of Asset ID, which is a number attributed to each unit in CAMS and used in all the ISO-NE systems. Until now, wind integration web services used another identifier called Entity ID. Participants had to obtain this number in order to use it in queries and submittals. In the new version, wind plants can be identified by either Asset ID, or Entity ID, or both numbers. The main advantage of this change is that for the wind plants that do not have the same Entity ID in Sandbox and Production systems, it will be possible to use just Asset ID, which is the same across all systems.

In the new version of web services, the response files include Asset ID in addition to Entity ID. The client software might need to be adjusted to accept this additional element or to ignore it. The current format of submit files, which use only Entity ID, will work with the new version, as Asset ID is an optional element.

In order to take advantage of the new way of identifying wind plants using Asset ID in web service submittals, the client software has to be recompiled with the new wsdl and xsd.

Please see Wind Integration Data Exchange Specification document for details regarding the updated structure of web services.

Refer to sample .Net and java programs for details regarding changes in client software.

1. Services affected by this enhancement
   All the services that expect the wind plant identifier or return the wind plant identifier will be using Entity ID or Asset ID or both. This includes:
   - Query Entities
   - Query Forecast
   - Submit Forecast

2. XML file format changes
   a) Example of Query Entities:
      Request

```xml
<QueryEntities
 xmlns="urn:com.alstom.isone.windint.windintegration:1-0">
    <Category>
        <identifier>WPLANT</identifier>
    </Category>
</QueryEntities>
```

Response

```
<QueryEntitiesResponse
 xmlns="urn:com.alstom.isone.windint.windintegration:1-0">
    <Category>
        <identifier>WPLANT</identifier>
    </Category>
    <Entities>
        <Entity>
            <identifier>***</identifier>
            <assetIdentifier>***</assetIdentifier>
            <name>******</name>
            <description>******</description>
            <isReadOnly>false</isReadOnly>
        </Entity>
    </Entities>
</QueryEntitiesResponse>
```

b) Examples of Hourly WPFA submittals:

Request

```
<SubmitForecast>
xmlns="urn:com.alstom.isone.windint.windintegration:1-0">
    <CreateSchedule>
    <Schedule>
        <identifier>*05070101</identifier>
    </Schedule>
    <Entities>
        <Entity>
            <identifier>***</identifier>
            <assetIdentifier>***</assetIdentifier>
            <name />
            <description />
            <Power>
                <time>2016-07-26T14:00:00-04:00</time>
                <value>11.62</value>
            </Power>
            . . .
        </Entity>
    </Entities>
    </CreateSchedule>
</SubmitForecast>
```

```xml
<SubmitForecast>
xmlns="urn:com.alstom.isone.windint.windintegration:1-0">
        <CreateSchedule>
        <Schedule>
                <identifier>*05070101</identifier>
        </Schedule>
        <Entities>
                <Entity>
                    <identifier>***</identifier>
                    <name />
                    <description />
                    <Power>
                        <time>2016-07-26T14:00:00-04:00</time>
                        <value>11.62</value>
                    </Power>
                    . . .
                </Entity>
        </Entities>
        </CreateSchedule>
</SubmitForecast>
```

```xml
<SubmitForecast>
xmlns="urn:com.alstom.isone.windint.windintegration:1-0">
        <CreateSchedule>
        <Schedule>
                <identifier>*05070101</identifier>
        </Schedule>
        <Entities>
                <Entity>
                    <assetIdentifier>***</assetIdentifier>
                    <name />
                    <description />
                    <Power>
                        <time>2016-07-26T14:00:00-04:00</time>
                        <value>11.62</value>
                    </Power>
                    . . .
                </Entity>
        </Entities>
        </CreateSchedule>
</SubmitForecast>
```

3. Error messages

The following error messages are returned in the soap response if the submitted Entity ID or Asset ID values are not valid.

Condition	Error message
Entity ID and Asset ID are valid but do not belong to the same wind plant	**Entity Identifier *** and Asset Identifier *** do not belong to the same entity**
Entity ID or Asset ID are not valid	**Entity Identifier is not authorized: ***** **Asset Identifier is not authorized: *******

Entity ID and Asset ID are valid but do not belong to the participant specified in the Schedule Identifier field	**Request did not contain any active authorized entities for participant**