Load DIR Forecast

Monday, June 15, 2015

1:40 PM

***Query***

This message format is used to query the 5 minute generation capability forecast for Dispatchable

Intermittent Resources (DIR). Using the query message described below, data previously submitted may be queried.

Start time will be rounded up to the next 5-minute boundary if it is not already on one and the next

12 intervals (configurable) will be returned assuming they exist. If forecast does not exist, then no data is

returned.

<QueryRequest>

<QueryDIRForecast startTime="yyyy-mm-ddThh:mm:ss">

<LocationName>xxx</LocationName>

<PortfolioName>xxx</PortfolioName>

</QueryDIRForecast>

</QueryRequest>

***Outputs***

Report file is saved to the auditpath directory and displayed on the Forecast UI (not created yet).

<QueryResponse>

<DIRForecast location="zzz">

<DIRForecastPoint effectiveTime="yyyy-mm-ddThh:mm:ss" MW="xx.x" />

</DIRForecast>

</QueryResponse>

***Load Process***

Forecast data is stored in the MC\_LOAD\_FORECAST table to be displayed on the Forecast UI.

A record is loaded per each unique Participant, Transaction Point (location), Source, and Start Dt

***Lookup Table Population :***

MC\_LOAD\_FORECAST\_TYPE

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **LOAD\_FORECAST\_TYPE\_CD** | **LOAD\_FORECAST\_TYPE\_DESC** | **DISPLAY\_NME** | **ISO\_REF** | **LOAD\_FORECAST\_TYPE\_INTRVL** | **USER\_ID** | **REVISED\_DT** |
| DIRForecast | DIR Forecast | DIR Forecast | DIRForecast | 5 |  |  |

MC\_LOAD\_FORECAST\_SOURCE\_TYPE

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **LOAD\_FORECAST\_SOURCE\_CD** | **LOAD\_FORECAST\_SOURCE\_DESC** | **DISPLAY\_NME** | **SOURCE\_CATEGORY\_CD** | **USER\_ID** | **REVISED\_DT** |
| ISO | ISO | ISO | ISO |  |  |

***MC\_LOAD\_FORECAST Mapping :***

|  |  |  |
| --- | --- | --- |
| **Name** | **Comments** | **Source** |
| LOAD\_FORECAST\_ID | Load Forecast Identifier: A number, generated from a sequence, which uniquely identifies this row. |  |
| LOAD\_FORECAST\_TYPE\_CD | Load Forecast Type Code: A code that uniquely identifies the type of the load forecast. Valid values are stored in the table MC\_LOAD\_FORECAST\_TYPE. | 'DIRForecast' |
| SOURCE\_CD | Source Type Code: A code that uniquely identifies the type of the load forecast source. Valid values are stored in the table MC\_SOURCE\_CODE\_TYPE. | 'ISO' |
| PTCPT\_ID | Participant ID: A id that uniquely identifies a market participant. Valid values are stored in the table X\_PTCPT. | Party  Or  Selected by user |
| XP\_ID | Transaction Point Identifier: The nMarket identifier for a transaction point. Valid values are stored in the table X\_XP\_MASTER. | location |
| START\_DT | Start Date: The start date and time of the interval. | effectiveTime |
| DT\_INTRVL\_VAL | Date Interval Value: The interval value to denote the duration of the data. | '+000 00:05:00.000000' |
| START\_DAY\_DT |  | effectiveTime |
| QUANTITY | Quantity: The quantity of the load forecast. | mw |
| EXT\_ID | External Identifier: Identifier from an external system to identify records in nMarket. |  |
| STATUS\_CD | Status Code: A code that indicates the submission status of the record. Valid values are stored in MC\_STATUS\_CODE\_TYPE. | 'SUB' |
| ISO\_STATUS | ISO Status: The ISO status of the record. | 'N/A' |
| INACTIVE\_FLG | Inactive Flag: A flag that indicates that the record has been inactivated. Valid values are 1 and 0. A value of 1 indicates the record has been inactivated, a value of 0 indicates the record is current. | 0 |
| USER\_ID | User Identifier: The user that added or updated this record. Valid values are stored in the table X\_USER\_LOGIN. |  |
| REVISED\_DT | Revised Date: The system date and time when the record was added or updated. |  |
| PUBLISH\_DATE | Publish Date: Time stamp indicating when the load forecast was crated. |  |

***Examples***

***Error Handling***

* Invalid Participant. Skip record.
  + *No participant exists in the nMarket Database for the party name = <party>.*
* Invalid Transaction Point. Skip record.
  + *No transaction point exists in the nMarket Database for the location name = <location>.*
* Invalid Date
  + *Invalid date passed from the file <interval> is not a valid value.*
* Invalid Value
  + *Invalid value passed from the file*