Load Resource 5 min Forecast

Monday, June 15, 2015

1:40 PM

***Query***

This message format is used to query the 5 minute forecast created by the Midwest ISO forecast tool.

You may query for a particular start time for the resource by location name using the message described

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

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

<QueryRequest>

<QueryResource5MinForecast startTime="yyyy-mm-ddThh:mm:ss">

<LocationName>xxx</LocationName>

<PortfolioName>xxx</PortfolioName>

</QueryResource5MinForecast>

</QueryRequest>

***Outputs***

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

<QueryResponse>

<Resource5MinForecast location="zzz">

<ForecastPoint effectiveTime="yyyy-mm-ddThh:mm:ss" MW="xxx.x" />

...

</Resource5MinForecast>

</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** |
| Resource5MinForecast | Resource 5 min Forecast | Resource 5 min Forecast | Resource5MinForecast | 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. | 'Resource5MinForecast' |
| 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 | Verify this is populated by the trigger. |  |
| 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. | 'N/A' |
| ISO\_STATUS | ISO Status: The ISO status of the record. |  |
| 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***

<QueryResponse>

<Resource5MinForecast location="TEST">

<ForecastPoint effectiveTime="2012-12-18T16:00:00.000-05:00" MW="100" />

<ForecastPoint effectiveTime="2012-12-18T16:05:00.000-05:00" MW="100" />

<ForecastPoint effectiveTime="2012-12-18T16:10:00.000-05:00" MW="100" />

<ForecastPoint effectiveTime="2012-12-18T16:15:00.000-05:00" MW="100" />

<ForecastPoint effectiveTime="2012-12-18T16:20:00.000-05:00" MW="100" />

<ForecastPoint effectiveTime="2012-12-18T16:25:00.000-05:00" MW="100" />

<ForecastPoint effectiveTime="2012-12-18T16:30:00.000-05:00" MW="100" />

<ForecastPoint effectiveTime="2012-12-18T16:35:00.000-05:00" MW="100" />

<ForecastPoint effectiveTime="2012-12-18T16:40:00.000-05:00" MW="100" />

<ForecastPoint effectiveTime="2012-12-18T16:45:00.000-05:00" MW="100" />

<ForecastPoint effectiveTime="2012-12-18T16:50:00.000-05:00" MW="100" />

<ForecastPoint effectiveTime="2012-12-18T16:55:00.000-05:00" MW="100" />

</Resource5MinForecast>

</QueryResponse>

***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*