

## Release Notes

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# OASIS Current Transmission Usage Report

Version 1.0

**May 13, 2014**

Template Version No:	1.0
Template Version Date:	08/09/2011
Effective Date:	08/09/2011

**Release Notes**

**REVISION HISTORY**

VERSION NO.	DATE	DESCRIPTION
1.0	05/13/2014	Initial version

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## Release Identification

<b>Application/System Name</b>	<b>OASIS - Open Access Same-time Information System</b>
<b>Version Identifier</b>	Current Transmission Report
<b>Production Release</b>	n/a
<b>Projects</b>	n/a

## Enhancements/Modifications Included

### Application Programming Interfaces (API)

#### API Name: TRNS\_CURR\_USAGE

Limiting the “*TRNS\_CURR\_USAGE*” Greenwich Meantime (GMT)-based application programming interface (API) report to only provide one trade date worth’s of data per request. Market participants with API queries spanning more than one day, must modify its queries to request data one trade date at a time.

If the query has these input parameters “ti_id=ALL & ti_direction=ALL” PLUS		Then the output will contain data for this entire trade date-
<startdatetime>	<enddatetime>	
20140510T07:00-0000	20140511T07:00-0000	05/10/2014 (HE01 to HE24)
20140510T07:00-0000	20140510T10:00-0000	05/10/2014 (HE01 to HE24)
20140510T14:00-0000	20140511T14:00-0000	05/10/2014 (HE01 to HE24)
20140510T07:00-0000	20140517T07:00-0000	05/10/2014 (HE01 to HE24)

In summary, the system will only recognize the “*date*” provided in the “*startdatetime*” parameter as the “trade date” in question; and basically ignores the “*enddatetime*” parameter.

Overall, this change allows the system to cache the file to reduce load on the system. Other queries that do not conform with the specified parameters above will be treated as single zip queries.

Reference example URL:

[http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS\\_CURR\\_USAGE&ti\\_id=ALL&ti\\_direction=ALL&startdatetime=20140510T07:00-0000&enddatetime=20140511T07:00-0000&version=1](http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_CURR_USAGE&ti_id=ALL&ti_direction=ALL&startdatetime=20140510T07:00-0000&enddatetime=20140511T07:00-0000&version=1)

### Graphical User-Interface (GUI) Application

#### Report: Current Transmission Usage

Going forward per patch deployment, the “*Hourly Unscheduled TR Capacity*” value under the 7-day ahead forecast dataset will be displayed. This value represents the total sum of the transmission rights before the markets run. As a note, the unused transmission rights capacity values are updated in conjunction with the publication of the DAM and RTM market results.

For the API reports, the “*Hourly Unscheduled TR Capacity*” will be reported under the TRNS\_TR\_USEAGE or USEAGE\_MW data elements.

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## Variations and Issues Addressed

Deployment of this patch will improve the overall performance of the Transmission Current Usage report, as well as lessen the system load issue causing other:

- Report query timeouts and/or long response times
- Corrupt xml or csv API files

## API Specifications

There are no schema (xsd) file changes under this patch, yet for additional reference, the OASIS Spring 2014 Release technical specifications document and related artifacts can be accessed at:

<http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx> under the “**Release Planning / Spring 2014 release / OASIS technical specifications**” heading.

- OASIS Interface Specification Spring 2014 Release v4.1.3 documents (Clean and Redline versions)
- OASIS Artifacts Package Spring 2014 Release v1.1 zip file

## Additional Proposed Changes

**Report: Current Transmission Usage | API Name: TRNS\_CURR\_USAGE**

The following are proposed additional changes to further aid with the report performance.

### 7-day ahead forecast dataset

*Background:*

The OASIS Current Transmission Usage report was modified from an hourly interval to a 15-minute interval granularity structure to accommodate 15-minute interval market results starting with FERC Order 764 activation trade date May 1, 2014. The 15-minute interval report structure applies to the current trade date and the 7 days ahead transmission rights forecast period dataset.

The 7 days ahead forecast dataset will be reverted to an hourly interval to reduce the volume of records generated by each report request. Only the current trade date dataset will remain on the 15-minute interval level.

*Example illustration:*

If today is current trade date 05/14/2014, the report would have data defined at the 15-minute granularity; 4 intervals per hour, for the current day and the day-ahead forecast datasets.

Trade Date	Transmission Interface	Transmission Type	Interval	HE01	...	Notes
05/14/2014	XXXX_MSL	ATC	1	99.99	99.99	“current” day @ 15-minute level  Interval = 1 to 4 4 records per hour
05/14/2014	XXXX_MSL	ATC	2	99.99	99.99	
05/14/2014	XXXX_MSL	ATC	3	99.99	99.99	
05/14/2014	XXXX_MSL	ATC	4	99.99	99.99	
05/15/2014	XXXX_MSL	ATC	1	99.99	99.99	Day-ahead forecast @ 15-minute level  Interval = 1 to 4 4 records per hour
05/15/2014	XXXX_MSL	ATC	2	99.99	99.99	
05/15/2014	XXXX_MSL	ATC	3	99.99	99.99	

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05/15/2014	XXXX_MSL	ATC	4	99.99	99.99
...					
05/20/2014	XXXX_MSL	ATC	1	99.99	99.99
05/20/2014	XXXX_MSL	ATC	2	99.99	99.99
05/20/2014	XXXX_MSL	ATC	3	99.99	99.99
05/20/2014	XXXX_MSL	ATC	4	99.99	99.99

Proposed change is to define the day-ahead forecast period at an hourly interval; current day remains at 15-minute level, such as:

Trade Date	Transmission Interface	Transmission Type	Interval	HE01	...	Notes
05/14/2014	XXXX_MSL	ATC	1	99.99	99.99	"current" day @ 15-minute level  Intervals = 1 to 4 4 records per hour
05/14/2014	XXXX_MSL	ATC	2	99.99	99.99	
05/14/2014	XXXX_MSL	ATC	3	99.99	99.99	
05/14/2014	XXXX_MSL	ATC	4	99.99	99.99	
05/15/2014	XXXX_MSL	ATC	0	99.99	99.99	Day-ahead forecast @ hourly level  Interval = 0 1 record per hour
...						
05/20/2014	XXXX_MSL	ATC	0	99.99	99.99	

As the trading day progresses into the real-time market timeline, the report display will become 4 intervals per hour posting.

**Data availability**

Limiting the data availability of the report to a rolling seven day period. This is inclusive of the current trade date, up to the T+7 trade date. Users must refer to the "Transmission Interface Usage" RTPD market report to retrieve previous trade dates.