Platts M2MS Market Data
IMSFTP Channel Delivery Specification

Version 1.4
May 28, 2013

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Preface

The Platts Market Data distribution platform is a numeric data distribution service whereby Platts "cuts" pre-defined data files at multiple scheduled times each weekday and posts files to a FTP site (ftp.platts.com) for customers and vendor partners to retrieve. The service is designed for customers and vendors who maintain their own databases of price data and consists of Platts assessments and other popular market data implements a standards-based integrated FTP solution that will allow Platts to drastically improve the timeliness and completeness of numeric data delivery via multiple delivery formats, while supporting the current business model.

Mark-to-Market Settlements (M2MS) are data products delivered in a flat file (.CSV file) via the standard Platts ftp site on a daily basis at the standard dispatch cuts times. The data would only be a selection of what we collect from the window e.g. summary of headlines (bid, offers, price changes, trades, company etc).

Who Should Read This Manual

This document is for developers and other technical users who will be ingesting Platts M2MS Market Data. This includes:

User	Description
Developers/System Designers	Readers who require a complete reference to the Platts M2MS Market Data delivery structure from either a systems or a detailed file level perspective.
Systems/ Business Analysts	Readers who need an overview of the Platts M2MS Market Data infrastructure and implementation-related information.
Quality Assurance (QA) Analysts	Readers who need column level details related to file content.
Managers	Readers who need an overview of the Platts M2MS Market Data specification in order to drive business decisions related to the M2MS Market Data infrastructure.
Maintenance Technicians	Readers who need an overview of the system for maintenance purposes.

Prerequisites

Platts assumes readers have a working knowledge of parsing delimited csv files and downloading files over ftp or sftp. In addition, they should possess some background in oil and petroleum-related products.

Related Materials

Platts hosts the M2MS Forward Curves Market Data files in ftp.platts.com. Daily files are available under the respective dated folders. The subscribers can access and download the files using ftp or sftp protocols using any standard ftp client. Additional access can be made using IMSFTP (Internet Multimedia Subsystem File Transfer Protocol).

Internal URL for users within the MGH network will use imsftp-internal.mcgraw-hill.com. External URL for users outside the MGH network will use imsftp.mcgraw-hill.com.

On-line Documentation

Documentation is not currently available online

1 Overview of Platts M2MS Market Data File Structure

Platts currently offers access to M2MS Market Data Derivative Product files using IMSFTP. The Market Data Derivative List consists of daily and monthly reporting of Natural Gas and Power products to include Heat Rate, Spark Spread, Historical Volatility, and Historical Correlation. These product files are provided as comma separated csv files. These files are hosted in under dated folders.

File Structure

imsftp-internal.mcgraw-hill.com Internal MGH network users

```
+-- M2MS_Market_Data [root product folder for M2MS Market Data]
        +-- yyyymmdd [45-weekdays-ago]   [would contain Final M2MS .csv files
                                          for most recent 45 days]
        |     :
        |     :
        +-- yyyymmdd [1-weekday-ago]
        +-- yyyymmdd [yyyymmdd = today; contents = M2MS .csv files for today]
            +-- corrections [contains the corrections files posted on a given day]
```

46th day logic will be placed on the file to only allow 45-days of history.

imsftp.mcgraw-hill.com External MGH network users

```
+-- M2MS_Market_Data [root product folder for M2MS Market Data]
        +-- yyyymmdd [45-weekdays-ago]   [would contain Final M2MS .csv files
                                          for most recent 45 days]
        |     :
        |     :
        +-- yyyymmdd [1-weekday-ago]
        +-- yyyymmdd [yyyymmdd = today; contents = M2MS .csv files for today]
            +-- corrections [contains the corrections files posted on a given day]
```

46th day logic will be placed on the file to only allow 45-days of history.

46th Day Logic

The purpose of the 46th day logic is to capture and retain Daily files for a total sum of 45-days, which equates to approximately 2-months of business activity.

The Monthly files will use similar logic with the exception of retaining only 2-months of history.

2 Overview of Platts M2MS Market Data Files

Currently Platts offers 84 M2MS Market Data files for Natural Gas and Power for Daily and Monthly reporting. 24 of the M2MS Market Data files are for Forward Curves available on ftp.platts.com.

60 of the M2MS Market Data files are for the Derivatives available on IMSFTP.

Natural Gas Daily Historical Volatility

1. GDV_yyyymmdd.csv
2. MDV_yyyymmdd.csv
3. EDV_yyyymmdd.csv
4. RDV_yyyymmdd.csv
5. UDV_yyyymmdd.csv
6. PDV_yyyymmdd.csv

Natural Gas Monthly Historical Volatility

7. GMV_yyyymmdd.csv
8. MMV_yyyymmdd.csv
9. EMV_yyyymmdd.csv
10. RMV_yyyymmdd.csv
11. UMV_yyyymmdd.csv
12. PMV_yyyymmdd.csv

Power Daily Historical Volatility

13. ODV_yyyymmdd.csv
14. ADV_yyyymmdd.csv
15. JDV_yyyymmdd.csv
16. SDV_yyyymmdd.csv
17. WDV_yyyymmdd.csv
18. FDV_yyyymmdd.csv

Power Monthly Historical Volatility

19. OMV_yyyymmdd.csv

20. AMV_yyyymmdd.csv
21. JMV_yyyymmdd.csv
22. SMV_yyyymmdd.csv
23. WMV_yyyymmdd.csv
24. FMV_yyyymmdd.csv

Power Daily Heat Rate

25. ODH_yyyymmdd.csv
26. ADH_yyyymmdd.csv
27. JDH_yyyymmdd.csv
28. SDH_yyyymmdd.csv
29. WDH_yyyymmdd.csv
30. FDH_yyyymmdd.csv

Power Monthly Heat Rate

31. OMH_yyyymmdd.csv
32. AMH_yyyymmdd.csv
33. JMH_yyyymmdd.csv
34. SMH_yyyymmdd.csv
35. WMH_yyyymmdd.csv
36. FMH_yyyymmdd.csv

Power Daily Spark Spread

37. ODS_yyyymmdd.csv
38. ADS_yyyymmdd.csv
39. JDS_yyyymmdd.csv
40. SDS_yyyymmdd.csv
41. WDS_yyyymmdd.csv
42. FDS_yyyymmdd.csv

Power Monthly Spark Spread

43. OMS_yyyymmdd.csv

44. AMS_yyyymmdd.csv
45. JMS_yyyymmdd.csv
46. SMS_yyyymmdd.csv
47. WMS_yyyymmdd.csv
48. FMS_yyyymmdd.csv

Power Daily Historical Correlation

49. ODR_yyyymmdd.csv
50. ADR_yyyymmdd.csv
51. JDR_yyyymmdd.csv
52. SDR_yyyymmdd.csv
53. WDR_yyyymmdd.csv
54. FDR_yyyymmdd.csv

Power Monthly Historical Correlation

55. OMR_yyyymmdd.csv
56. AMR_yyyymmdd.csv
57. JMR_yyyymmdd.csv
58. SMR_yyyymmdd.csv
59. WMR_yyyymmdd.csv
60. FMR_yyyymmdd.csv

File posting time

Posting time is dependent upon when the quantitative team processes the forward curves. The derivatives will follow the forward curve process.

Corrections

Whenever there are any changes to the already published price in any of the product files, the entire curves for derivatives will be generated manually and posted again to IMSFTP. This will overwrite the older files existing from the original run. The end users should be advised to download all the files which have a modified date of system date in order to get all the information.

Daily file correction example for Friday, May 24, 2013:

On Friday May 24th if there were corrections for either GED or PED or Both for May 22nd activity. The following will be regenerated in terms of derived products.

May 22, 2013:

1) Heat Rates
2) Spark Spreads
3) Historical correlation
4) Historical volatility for Nat Gas or Power or both based on what was corrected.

May 23, 2013:

1) Historical correlation
2) Historical volatility for Nat Gas or Power or both based on what was corrected.

May 24, 2013:
If the curves were already generated, then the following needs to be regenerated.

1) Historical correlation
2) Historical volatility for Nat Gas or Power or both based on what was corrected.

If the curves were not already generated, then no reruns.

All these files will be posted to imsftp with the same naming convention as an example of GMV_20130522.csv which will overwrite the existing files, hence on May 24, 2013; the users should download all the files which have a modified date of May 24, 2013 in order to not lose any updates.

File Format

Each of the four M2MS Derivative file formats, given below, represents for Daily Power. Every field value is delimited by comma (,) and every field is enclosed by double quotes. First line of the file is the header.

There is no difference between Daily file format and Monthly file format. There is no difference between Historical Volatility for Power and the Historical Volatility for Natural Gas.

Historical Volatility File Format

TRADE DATE	It is the date when the trade occurred and is of type DATE
HUB NAME	It is the Basis of delivery per market and of type VARCHAR2(200 Byte)

ON PEAK / OFF PEAK	This column contains the value as 'Peak' or 'OffPeak' to represent the time period during and after the majority for activity of usage. It is of type Varchar2(20) – Not Null
STRIP	It is the Financial (Product Specific) - Contract Date. Type : Varchar2(50) bytes
HISTORICAL VOLATILITY	Combination 1 Pricing Percentage of type NUMBER(4)
UNIQUE ID	The Unique ID is of type Number(20) – Not Null. (e.g. 02012013ENC1114HVDADV) 8-characters | 3-char | 4-char | 2-char | 1-char | 3-char 02012013 | ENC | 1114 | HV | D | ADV Trade Date | Hub | Strip MoYr | Product | Frequency | MDC The first eight characters represent the Trade Date, followed by the 3-character Hub, followed by the 2-character month number value and 2-character year number value of the Strip, followed by the 2-character Product code, followed by 1-character Frequency ('D' for Daily and 'M' for Monthly), followed by the 3-character Market Data Category (MDC) code

Heat Rate File Format

TRADE_DATE	It is the date when the trade occurred and is of type DATE
HUB	It is the Basis of delivery per market and of type VARCHAR2(200 Byte)
GAS_HUB1	It is the Reference of Natural Gas Hub1 delivery per associated Hub per market and of type VARCHAR2(200 Byte)
GAS_HUB2	It is the Reference of Natural Gas Hub2 delivery per associated Hub per market and of type VARCHAR2(200 Byte)
GAS_HUB3	It is the Reference of Natural Gas Hub3 delivery per associated Hub per market and

	of type VARCHAR2(200 Byte)
GAS_HUB4	It is the Reference of Natural Gas Hub4 delivery per associated Hub per market and of type VARCHAR2(200 Byte)
STRIP	It is the Financial (Product Specific) - Contract Date. Type : Varchar2(50) bytes
HEAT_RATE_ONPEAK_TO_GAS_HUB1	The Heat Rate of On Peak to Gas Hub1 and of type INTEGER(6)
HEAT_RATE_ONPEAK_TO_GAS_HUB2	The Heat Rate of On Peak to Gas Hub2 and of type INTEGER(6)
HEAT_RATE_ONPEAK_TO_GAS_HUB3	The Heat Rate of On Peak to Gas Hub3 and of type INTEGER(6)
HEAT_RATE_ONPEAK_TO_GAS_HUB4	The Heat Rate of On Peak to Gas Hub4 and of type INTEGER(6)
HEAT_RATE_OFFPEAK_TO_GAS_HUB1	The Heat Rate of Off Peak to Gas Hub1 and of type INTEGER(6)
HEAT_RATE_OFFPEAK_TO_GAS_HUB2	The Heat Rate of Off Peak to Gas Hub2 and of type INTEGER(6)
HEAT_RATE_OFFPEAK_TO_GAS_HUB3	The Heat Rate of Off Peak to Gas Hub3 and of type INTEGER(6)
HEAT_RATE_OFFPEAK_TO_GAS_HUB4	The Heat Rate of Off Peak to Gas Hub4 and of type INTEGER(6)
UNIQUE ID	The Unique ID is of type Number(20) – Not Null. (e.g. 02012013ENC1114HVDADV) 8-characters | 3-char | 4-char | 2-char | 1-char | 3-char 02012013 | ENC | 1114 | HV | D | ADV Trade Date | Hub | Strip MoYr | Product | Frequency | MDC The first eight characters represent the Trade Date, followed by the 3-character Hub, followed by the 2-character month number value and 2-character year number value of the Strip, followed by the 2-character Product code, followed by 1-character Frequency ('D' for Daily and 'M' for Monthly), followed by the 3-character Market Data Category (MDC)

	code

Spark Spread File Format

TRADE DATE	It is the date when the trade occurred and is of type DATE
HUB	It is the Basis of delivery per market and of type VARCHAR2(200 Byte)
GAS_HUB1	It is the Reference of Natural Gas Hub1 delivery per associated Hub per market and of type VARCHAR2(200 Byte)
GAS_HUB2	It is the Reference of Natural Gas Hub2 delivery per associated Hub per market and of type VARCHAR2(200 Byte)
GAS_HUB3	It is the Reference of Natural Gas Hub3 delivery per associated Hub per market and of type VARCHAR2(200 Byte)
GAS_HUB4	It is the Reference of Natural Gas Hub4 delivery per associated Hub per market and of type VARCHAR2(200 Byte)
STRIP	It is the Financial (Product Specific) - Contract Date. Type : Varchar2(50) bytes
SPK_SPD_ONPK_GAS_HUB1_AT_7000	The Spark Spread of On Peak for Gas Hub1 at 7000 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB1_AT_7500	The Spark Spread of On Peak for Gas Hub1 at 7500 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB1_AT_8000	The Spark Spread of On Peak for Gas Hub1 at 8000 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB1_AT_8500	The Spark Spread of On Peak for Gas Hub1 at 8500 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB1_AT_9000	The Spark Spread of On Peak for Gas Hub1 at 9000 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB1_AT_9500	The Spark Spread of On Peak for Gas Hub1

	at 9500 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB1_AT_10000	The Spark Spread of On Peak for Gas Hub1 at 10000 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB1_AT_10500	The Spark Spread of On Peak for Gas Hub1 at 10500 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB1_AT_11000	The Spark Spread of On Peak for Gas Hub1 at 11000 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB1_AT_11500	The Spark Spread of On Peak for Gas Hub1 at 11500 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB1_AT_12000	The Spark Spread of On Peak for Gas Hub1 at 12000 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB1_AT_12500	The Spark Spread of On Peak for Gas Hub1 at 12500 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB1_AT_13000	The Spark Spread of On Peak for Gas Hub1 at 13000 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB2_AT_7000	The Spark Spread of On Peak for Gas Hub2 at 7000 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB2_AT_7500	The Spark Spread of On Peak for Gas Hub2 at 7500 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB2_AT_8000	The Spark Spread of On Peak for Gas Hub2 at 8000 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB2_AT_8500	The Spark Spread of On Peak for Gas Hub2 at 8500 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB2_AT_9000	The Spark Spread of On Peak for Gas Hub2 at 9000 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB2_AT_9500	The Spark Spread of On Peak for Gas Hub2 at 9500 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB2_AT_10000	The Spark Spread of On Peak for Gas Hub2 at 10000 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB2_AT_10500	The Spark Spread of On Peak for Gas Hub2 at 10500 Btu/kWh and of type INTEGER(6)

SPK_SPD_ONPK_GAS_HUB2_AT_11000	The Spark Spread of On Peak for Gas Hub2 at 11000 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB2_AT_11500	The Spark Spread of On Peak for Gas Hub2 at 11500 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB2_AT_12000	The Spark Spread of On Peak for Gas Hub2 at 12000 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB2_AT_12500	The Spark Spread of On Peak for Gas Hub2 at 12500 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB2_AT_13000	The Spark Spread of On Peak for Gas Hub2 at 13000 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB3_AT_7000	The Spark Spread of On Peak for Gas Hub3 at 7000 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB3_AT_7500	The Spark Spread of On Peak for Gas Hub3 at 7500 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB3_AT_8000	The Spark Spread of On Peak for Gas Hub3 at 8000 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB3_AT_8500	The Spark Spread of On Peak for Gas Hub3 at 8500 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB3_AT_9000	The Spark Spread of On Peak for Gas Hub3 at 9000 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB3_AT_9500	The Spark Spread of On Peak for Gas Hub3 at 9500 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB3_AT_10000	The Spark Spread of On Peak for Gas Hub3 at 10000 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB3_AT_10500	The Spark Spread of On Peak for Gas Hub3 at 10500 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB3_AT_11000	The Spark Spread of On Peak for Gas Hub3 at 11000 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB3_AT_11500	The Spark Spread of On Peak for Gas Hub3 at 11500 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB3_AT_12000	The Spark Spread of On Peak for Gas Hub3

	at 12000 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB3_AT_12500	The Spark Spread of On Peak for Gas Hub3 at 12500 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB3_AT_13000	The Spark Spread of On Peak for Gas Hub3 at 13000 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB4_AT_7000	The Spark Spread of On Peak for Gas Hub4 at 7000 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB4_AT_7500	The Spark Spread of On Peak for Gas Hub4 at 7500 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB4_AT_8000	The Spark Spread of On Peak for Gas Hub4 at 8000 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB4_AT_8500	The Spark Spread of On Peak for Gas Hub4 at 8500 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB4_AT_9000	The Spark Spread of On Peak for Gas Hub4 at 9000 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB4_AT_9500	The Spark Spread of On Peak for Gas Hub4 at 9500 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB4_AT_10000	The Spark Spread of On Peak for Gas Hub4 at 10000 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB4_AT_10500	The Spark Spread of On Peak for Gas Hub4 at 10500 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB4_AT_11000	The Spark Spread of On Peak for Gas Hub4 at 11000 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB4_AT_11500	The Spark Spread of On Peak for Gas Hub4 at 11500 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB4_AT_12000	The Spark Spread of On Peak for Gas Hub4 at 12000 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB4_AT_12500	The Spark Spread of On Peak for Gas Hub4 at 12500 Btu/kWh and of type INTEGER(6)
SPK_SPD_ONPK_GAS_HUB4_AT_13000	The Spark Spread of On Peak for Gas Hub4 at 13000 Btu/kWh and of type INTEGER(6)

SPK_SPD_OFPK_GAS_HUB1_AT_7000	The Spark Spread of Off Peak for Gas Hub1 at 7000 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB1_AT_7500	The Spark Spread of Off Peak for Gas Hub1 at 7500 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB1_AT_8000	The Spark Spread of Off Peak for Gas Hub1 at 8000 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB1_AT_8500	The Spark Spread of Off Peak for Gas Hub1 at 8500 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB1_AT_9000	The Spark Spread of Off Peak for Gas Hub1 at 9000 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB1_AT_9500	The Spark Spread of Off Peak for Gas Hub1 at 9500 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB1_AT_10000	The Spark Spread of Off Peak for Gas Hub1 at 10000 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB1_AT_10500	The Spark Spread of Off Peak for Gas Hub1 at 10500 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB1_AT_11000	The Spark Spread of Off Peak for Gas Hub1 at 11000 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB1_AT_11500	The Spark Spread of Off Peak for Gas Hub1 at 11500 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB1_AT_12000	The Spark Spread of Off Peak for Gas Hub1 at 12000 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB1_AT_12500	The Spark Spread of Off Peak for Gas Hub1 at 12500 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB1_AT_13000	The Spark Spread of Off Peak for Gas Hub1 at 13000 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB2_AT_7000	The Spark Spread of Off Peak for Gas Hub2 at 7000 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB2_AT_7500	The Spark Spread of Off Peak for Gas Hub2 at 7500 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB2_AT_8000	The Spark Spread of Off Peak for Gas Hub2

	at 8000 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB2_AT_8500	The Spark Spread of Off Peak for Gas Hub2 at 8500 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB2_AT_9000	The Spark Spread of Off Peak for Gas Hub2 at 9000 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB2_AT_9500	The Spark Spread of Off Peak for Gas Hub2 at 9500 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB2_AT_10000	The Spark Spread of Off Peak for Gas Hub2 at 10000 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB2_AT_10500	The Spark Spread of Off Peak for Gas Hub2 at 10500 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB2_AT_11000	The Spark Spread of Off Peak for Gas Hub2 at 11000 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB2_AT_11500	The Spark Spread of Off Peak for Gas Hub2 at 11500 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB2_AT_12000	The Spark Spread of Off Peak for Gas Hub2 at 12000 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB2_AT_12500	The Spark Spread of Off Peak for Gas Hub2 at 12500 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB2_AT_13000	The Spark Spread of Off Peak for Gas Hub2 at 13000 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB3_AT_7000	The Spark Spread of Off Peak for Gas Hub3 at 7000 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB3_AT_7500	The Spark Spread of Off Peak for Gas Hub3 at 7500 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB3_AT_8000	The Spark Spread of Off Peak for Gas Hub3 at 8000 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB3_AT_8500	The Spark Spread of Off Peak for Gas Hub3 at 8500 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB3_AT_9000	The Spark Spread of Off Peak for Gas Hub3 at 9000 Btu/kWh and of type INTEGER(6)

SPK_SPD_OFPK_GAS_HUB3_AT_9500	The Spark Spread of Off Peak for Gas Hub3 at 9500 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB3_AT_10000	The Spark Spread of Off Peak for Gas Hub3 at 10000 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB3_AT_10500	The Spark Spread of Off Peak for Gas Hub3 at 10500 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB3_AT_11000	The Spark Spread of Off Peak for Gas Hub3 at 11000 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB3_AT_11500	The Spark Spread of Off Peak for Gas Hub3 at 11500 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB3_AT_12000	The Spark Spread of Off Peak for Gas Hub3 at 12000 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB3_AT_12500	The Spark Spread of Off Peak for Gas Hub3 at 12500 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB3_AT_13000	The Spark Spread of Off Peak for Gas Hub3 at 13000 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB4_AT_7000	The Spark Spread of Off Peak for Gas Hub4 at 7000 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB4_AT_7500	The Spark Spread of Off Peak for Gas Hub4 at 7500 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB4_AT_8000	The Spark Spread of Off Peak for Gas Hub4 at 8000 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB4_AT_8500	The Spark Spread of Off Peak for Gas Hub4 at 8500 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB4_AT_9000	The Spark Spread of Off Peak for Gas Hub4 at 9000 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB4_AT_9500	The Spark Spread of Off Peak for Gas Hub4 at 9500 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB4_AT_10000	The Spark Spread of Off Peak for Gas Hub4 at 10000 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB4_AT_10500	The Spark Spread of Off Peak for Gas Hub4

	at 10500 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB4_AT_11000	The Spark Spread of Off Peak for Gas Hub4 at 11000 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB4_AT_11500	The Spark Spread of Off Peak for Gas Hub4 at 11500 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB4_AT_12000	The Spark Spread of Off Peak for Gas Hub4 at 12000 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB4_AT_12500	The Spark Spread of Off Peak for Gas Hub4 at 12500 Btu/kWh and of type INTEGER(6)
SPK_SPD_OFPK_GAS_HUB4_AT_13000	The Spark Spread of Off Peak for Gas Hub4 at 13000 Btu/kWh and of type INTEGER(6)
UNIQUE ID	The Unique ID is of type Number(20) – Not Null. (e.g. 02012013ENC1114HVDADV) 8-characters | 3-char | 4-char | 2-char | 1-char | 3-char 02012013 | ENC | 1114 | HV | D | ADV Trade Date | Hub | Strip MoYr | Product | Frequency | MDC The first eight characters represent the Trade Date, followed by the 3-character Hub, followed by the 2-character month number value and 2-character year number value of the Strip, followed by the 2-character Product code, followed by 1-character Frequency ('D' for Daily and 'M' for Monthly), followed by the 3-character Market Data Category (MDC) code

Historical Correlation File Format

TRADE_DATE	It is the date when the trade occurred and is of type DATE
HUB	It is the Basis of delivery per market and of type VARCHAR2(200 Byte)
GAS_HUB1	It is the Reference of Natural Gas Hub1 delivery per associated Hub per market and of type VARCHAR2(200 Byte)
GAS_HUB2	It is the Reference of Natural Gas Hub2 delivery per associated Hub per market and

	of type VARCHAR2(200 Byte)
GAS_HUB3	It is the Reference of Natural Gas Hub3 delivery per associated Hub per market and of type VARCHAR2(200 Byte)
GAS_HUB4	It is the Reference of Natural Gas Hub4 delivery per associated Hub per market and of type VARCHAR2(200 Byte)
STRIP	It is the Financial (Product Specific) - Contract Date. Type : Varchar2(50) bytes
HIS_COR_ONPK_GAS_HUB1	The Historical Correlation of On Peak for Gas Hub1 and Percentage of type NUMBER(4)
HIS_COR_ONPK_GAS_HUB2	The Historical Correlation of On Peak for Gas Hub2 and Percentage of type NUMBER(4)
HIS_COR_ONPK_GAS_HUB3	The Historical Correlation of On Peak for Gas Hub3 and Percentage of type NUMBER(4)
HIS_COR_ONPK_GAS_HUB4	The Historical Correlation of On Peak for Gas Hub4 and Percentage of type NUMBER(4)
HIS_COR_OFPK_GAS_HUB1	The Historical Correlation of Off Peak for Gas Hub1 and Percentage of type NUMBER(4)
HIS_COR_OFPK_GAS_HUB2	The Historical Correlation of Off Peak for Gas Hub2 and Percentage of type NUMBER(4)
HIS_COR_OFPK_GAS_HUB3	The Historical Correlation of Off Peak for Gas Hub3 and Percentage of type NUMBER(4)
HIS_COR_OFPK_GAS_HUB4	The Historical Correlation of Off Peak for Gas Hub4 and Percentage of type NUMBER(4)
UNIQUE ID	The Unique ID is of type Number(20) – Not Null. (e.g. 02012013ENC1114HVDADV)

	8-characters | 3-char | 4-char | 2-char | 1-char | 3-char 02012013 | ENC | 1114 | HV | D | ADV Trade Date | Hub | Strip MoYr | Product | Frequency | MDC The first eight characters represent the Trade Date, followed by the 3-character Hub, followed by the 2-character month number value and 2-character year number value of the Strip, followed by the 2-character Product code, followed by 1-character Frequency ('D' for Daily and 'M' for Monthly), followed by the 3-character Market Data Category (MDC) code

3 Platts M2MS Market Data Processing Recommendation

This section provides recommendations for processing Platts M2MS Market Data files.

1. Every record in the file is uniquely identified by the UNIQUE ID.
2. Every field is delimited by comma and enclosed by double quotes.
3. Currently there are no restrictions for special characters for certain fields. Therefore, there is a possibility that some fields may have special characters.

Appendix A: Platts eWindow Market Data Sample File

This section provides a sample line from the following files:

1. ADV.csv file [M2MS Power Daily Historical Volatility]

Header	Sample Value
TRADE DATE	"2/1/2013"
HUB NAME	"NEPOOL-CT"
ON PEAK / OFF PEAK	"Peak"
STRIP	"11/1/2014"
HISTORICAL VOLATILITY	"14%"
UNIQUE ID	"02012013ENC1114HVDADV"

2. ADH.csv file [M2MS Power Daily Heat Rate]

Header	Sample Value
TRADE_DATE	"2/1/2013"
HUB	"ENC"
GAS_HUB1	"Iroquois Zn2"
GAS_HUB2	"Tenn Zn6 Dlvd"
GAS_HUB3	" "
GAS_HUB4	" "
STRIP	“1/4/2013”
HEAT_RATE_ONPEAK_TO_GAS_HUB1	“11.05”
HEAT_RATE_ONPEAK_TO_GAS_HUB2	“10.73”
HEAT_RATE_ONPEAK_TO_GAS_HUB3	" "
HEAT_RATE_ONPEAK_TO_GAS_HUB4	" "
HEAT_RATE_OFFPEAK_TO_GAS_HUB1	“9.17”
HEAT_RATE_OFFPEAK_TO_GAS_HUB2	“8.9”
HEAT_RATE_OFFPEAK_TO_GAS_HUB3	" "
HEAT_RATE_OFFPEAK_TO_GAS_HUB4	" "
UNIQUE_ID	“02012013ENC0113HRDADH”

3. ADS.csv file [M2MS Power Daily Spark Spread]

Header	Sample Value
TRADE_DATE	"2/1/2013"
HUB	"East NY ZnJ"
GAS_HUB1	"Transco Zn6 NY"
GAS_HUB2	"TX Eastern M-3"
GAS_HUB3	" "
GAS_HUB4	" "
STRIP	"9/1/2015"
SPK_SPD_ONPK_GAS_HUB1_AT_7000	"24.38"
SPK_SPD_ONPK_GAS_HUB1_AT_7500	"22.3"
SPK_SPD_ONPK_GAS_HUB1_AT_8000	"20.22"

SPK_SPD_ONPK_GAS_HUB1_AT_8500	"18.14"
SPK_SPD_ONPK_GAS_HUB1_AT_9000	"16.06"
SPK_SPD_ONPK_GAS_HUB1_AT_9500	"13.98"
SPK_SPD_ONPK_GAS_HUB1_AT_10000	"11.9"
SPK_SPD_ONPK_GAS_HUB1_AT_10500	"9.82"
SPK_SPD_ONPK_GAS_HUB1_AT_11000	"7.74"
SPK_SPD_ONPK_GAS_HUB1_AT_11500	"5.66"
SPK_SPD_ONPK_GAS_HUB1_AT_12000	"3.58"
SPK_SPD_ONPK_GAS_HUB1_AT_12500	"1.5"
SPK_SPD_ONPK_GAS_HUB1_AT_13000	"-0.58"
SPK_SPD_ONPK_GAS_HUB2_AT_7000	"24.38"
SPK_SPD_ONPK_GAS_HUB2_AT_7500	"22.3"
SPK_SPD_ONPK_GAS_HUB2_AT_8000	"20.22"
SPK_SPD_ONPK_GAS_HUB2_AT_8500	"18.14"
SPK_SPD_ONPK_GAS_HUB2_AT_9000	"16.06"
SPK_SPD_ONPK_GAS_HUB2_AT_9500	"13.98"
SPK_SPD_ONPK_GAS_HUB2_AT_10000	"11.9"
SPK_SPD_ONPK_GAS_HUB2_AT_10500	"9.82"
SPK_SPD_ONPK_GAS_HUB2_AT_11000	"7.74"
SPK_SPD_ONPK_GAS_HUB2_AT_11500	"5.66"
SPK_SPD_ONPK_GAS_HUB2_AT_12000	"3.58"
SPK_SPD_ONPK_GAS_HUB2_AT_12500	"1.5"
SPK_SPD_ONPK_GAS_HUB2_AT_13000	"-0.58"
SPK_SPD_ONPK_GAS_HUB3_AT_7000	" "
SPK_SPD_ONPK_GAS_HUB3_AT_7500	" "
SPK_SPD_ONPK_GAS_HUB3_AT_8000	" "
SPK_SPD_ONPK_GAS_HUB3_AT_8500	" "
SPK_SPD_ONPK_GAS_HUB3_AT_9000	" "
SPK_SPD_ONPK_GAS_HUB3_AT_9500	" "
SPK_SPD_ONPK_GAS_HUB3_AT_10000	" "
SPK_SPD_ONPK_GAS_HUB3_AT_10500	" "
SPK_SPD_ONPK_GAS_HUB3_AT_11000	" "
SPK_SPD_ONPK_GAS_HUB3_AT_11500	" "
SPK_SPD_ONPK_GAS_HUB3_AT_12000	" "
SPK_SPD_ONPK_GAS_HUB3_AT_12500	" "
SPK_SPD_ONPK_GAS_HUB3_AT_13000	" "
SPK_SPD_ONPK_GAS_HUB4_AT_7000	" "
SPK_SPD_ONPK_GAS_HUB4_AT_7500	" "
SPK_SPD_ONPK_GAS_HUB4_AT_8000	" "
SPK_SPD_ONPK_GAS_HUB4_AT_8500	" "
SPK_SPD_ONPK_GAS_HUB4_AT_9000	" "
SPK_SPD_ONPK_GAS_HUB4_AT_9500	" "
SPK_SPD_ONPK_GAS_HUB4_AT_10000	" "
SPK_SPD_ONPK_GAS_HUB4_AT_10500	" "
SPK_SPD_ONPK_GAS_HUB4_AT_11000	" "
SPK_SPD_ONPK_GAS_HUB4_AT_11500	" "
SPK_SPD_ONPK_GAS_HUB4_AT_12000	" "
SPK_SPD_ONPK_GAS_HUB4_AT_12500	" "

SPK_SPD_ONPK_GAS_HUB4_AT_13000	" "
SPK_SPD_OFPK_GAS_HUB1_AT_7000	"9.13"
SPK_SPD_OFPK_GAS_HUB1_AT_7500	"7.05"
SPK_SPD_OFPK_GAS_HUB1_AT_8000	"4.97"
SPK_SPD_OFPK_GAS_HUB1_AT_8500	"2.89"
SPK_SPD_OFPK_GAS_HUB1_AT_9000	"0.81"
SPK_SPD_OFPK_GAS_HUB1_AT_9500	"-1.27"
SPK_SPD_OFPK_GAS_HUB1_AT_10000	"-3.35"
SPK_SPD_OFPK_GAS_HUB1_AT_10500	"-5.43"
SPK_SPD_OFPK_GAS_HUB1_AT_11000	"-7.51"
SPK_SPD_OFPK_GAS_HUB1_AT_11500	"-9.59"
SPK_SPD_OFPK_GAS_HUB1_AT_12000	"-11.67"
SPK_SPD_OFPK_GAS_HUB1_AT_12500	"-13.75"
SPK_SPD_OFPK_GAS_HUB1_AT_13000	"-15.83"
SPK_SPD_OFPK_GAS_HUB2_AT_7000	"9.13"
SPK_SPD_OFPK_GAS_HUB2_AT_7500	"7.05"
SPK_SPD_OFPK_GAS_HUB2_AT_8000	"4.97"
SPK_SPD_OFPK_GAS_HUB2_AT_8500	"2.89"
SPK_SPD_OFPK_GAS_HUB2_AT_9000	"0.81"
SPK_SPD_OFPK_GAS_HUB2_AT_9500	"-1.27"
SPK_SPD_OFPK_GAS_HUB2_AT_10000	"-3.35"
SPK_SPD_OFPK_GAS_HUB2_AT_10500	"-5.43"
SPK_SPD_OFPK_GAS_HUB2_AT_11000	"-7.51"
SPK_SPD_OFPK_GAS_HUB2_AT_11500	"-9.59"
SPK_SPD_OFPK_GAS_HUB2_AT_12000	"-11.67"
SPK_SPD_OFPK_GAS_HUB2_AT_12500	"-13.75"
SPK_SPD_OFPK_GAS_HUB2_AT_13000	"-15.83"
SPK_SPD_OFPK_GAS_HUB3_AT_7000	" "
SPK_SPD_OFPK_GAS_HUB3_AT_7500	" "
SPK_SPD_OFPK_GAS_HUB3_AT_8000	" "
SPK_SPD_OFPK_GAS_HUB3_AT_8500	" "
SPK_SPD_OFPK_GAS_HUB3_AT_9000	" "
SPK_SPD_OFPK_GAS_HUB3_AT_9500	" "
SPK_SPD_OFPK_GAS_HUB3_AT_10000	" "
SPK_SPD_OFPK_GAS_HUB3_AT_10500	" "
SPK_SPD_OFPK_GAS_HUB3_AT_11000	" "
SPK_SPD_OFPK_GAS_HUB3_AT_11500	" "
SPK_SPD_OFPK_GAS_HUB3_AT_12000	" "
SPK_SPD_OFPK_GAS_HUB3_AT_12500	" "
SPK_SPD_OFPK_GAS_HUB3_AT_13000	" "
SPK_SPD_OFPK_GAS_HUB4_AT_7000	" "
SPK_SPD_OFPK_GAS_HUB4_AT_7500	" "
SPK_SPD_OFPK_GAS_HUB4_AT_8000	" "
SPK_SPD_OFPK_GAS_HUB4_AT_8500	" "
SPK_SPD_OFPK_GAS_HUB4_AT_9000	" "
SPK_SPD_OFPK_GAS_HUB4_AT_9500	" "
SPK_SPD_OFPK_GAS_HUB4_AT_10000	" "
SPK_SPD_OFPK_GAS_HUB4_AT_10500	" "

SPK_SPD_OFPK_GAS_HUB4_AT_11000	" "
SPK_SPD_OFPK_GAS_HUB4_AT_11500	" "
SPK_SPD_OFPK_GAS_HUB4_AT_12000	" "
SPK_SPD_OFPK_GAS_HUB4_AT_12500	" "
SPK_SPD_OFPK_GAS_HUB4_AT_13000	" "
UNIQUE_ID	"02012013ENJ0915SSDADS"

4. ADR.csv file [M2MS Power Daily Historical Correlation]

Header	**Sample Value**
TRADE_DATE	"2/1/2013"
HUB	"East NY ZnJ"
GAS_HUB1	"NTN"
GAS_HUB2	"NTE"
GAS_HUB3	" "
GAS_HUB4	" "
STRIP	“7/1/2015”
HIS_COR_ONPK_GAS_HUB1	“67%”
HIS_COR_ONPK_GAS_HUB2	“64%”
HIS_COR_ONPK_GAS_HUB3	" "
HIS_COR_ONPK_GAS_HUB4	" "
HIS_COR_OFPK_GAS_HUB1	“19%”
HIS_COR_OFPK_GAS_HUB2	“17%”
HIS_COR_OFPK_GAS_HUB3	" "
HIS_COR_OFPK_GAS_HUB4	" "
UNIQUE_ID	“02012013ENJ0715HCDADR”