

DSS -Timeline for Posting Billing Data

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DSS Load Process Description — S-Q-E-P-D (Source-Queue-ETL-Publish-Datamart)

- S-Q: Process that moves data from NYISO source systems (MIS, BAS, etc.) to a DSS queuing area
 - Part of each bill run
 - 9:30 pm settlement adjustment completion cutoff for next day load
 - 11:00 pm initial bill cutoff for next day load
- Q-E-P : Process the transforms data into format thought of as DSS
 - Starts at 11:00 pm of previous day for next day load
 - Completes before 4 am
 - Several DSS backups also completed in this time window for Business Continuance and QA
- > P-D: Moves the data from the prepublishing staging area (P) into the datamart (D) where users can then access it.
 - Most people associate D as the DSS
 - Process requires outage and is targeted 4:00–7:00 am
 - Invoice version update performed in this window (day after NYISO sends invoice to Oracle Financials)
- > DSS made available after P-D completes ADD generation starts at this point

2004 Process Improvements Completed

- Major tracks aimed at improving DSS timeline for posting
 - Increased memory and CPU Feb 2004
 - Automated invoicing process April 2004
 - DSS could not load invoice and other billing days on the same day prior to this
 - Transportable Table Spaces (faster load method into data mart) April 2004
 - ▶ DSS had difficulty staying within DSS planned outage time on days with many settlement adjustments prior to this.
 - Extract multiple streams of source data simultaneously June 2004
 - Upgrade Oracle and OS patch set July 2004
 - Building indexes asynchronously while loading data Scheduled today
 - Bring data mart up BEFORE running analyzes Scheduled today

Alternate Data Delivery Phase 1

- Provide static daily and hourly CSVs by using the DSS
- Increased memory and CPU on application servers
 June 2004
- Optimize code across Web and Application server tiers June 2004

Recent DSS Load Time Statistics

Run Day	Start Time	Finish Time	Num Files	Num Minutes	Files per Minute	Day of Week
7/28/2004	6:47:45	7:23:31	2187	35.77	61.15	Wednesday
7/27/2004	6:19:14	6:28:44	845	9.50	88.95	Tuesday
7/26/2004	6:04:34	6:07:04	192	2.50	76.80	Monday
7/25/2004	6:34:38	6:45:32	580	10.90	53.21	Sunday
7/24/2004	6:49:47	7:16:45	1380	26.97	51.17	Saturday
7/23/2004	6:24:39	6:29:37	375	4.97	75.50	Friday
7/22/2004	5:57:29	5:58:41	95	1.20	79.17	Thursday
7/21/2004	6:41:40	7:16:56	1977	35.27	56.06	Wednesday
7/20/2004	6:16:55	6:27:14	729	10.32	70.66	Tuesday
7/19/2004	5:51:48	5:53:02	93	1.23	75.41	Monday
7/18/2004	5:49:47	5:51:00	93	1.22	76.44	Sunday
7/17/2004	6:28:57	6:47:12	1850	18.25	101.37	Saturday
7/16/2004	6:14:55	6:20:28	560	5.55	100.90	Friday
7/15/2004	6:33:18	6:37:41	425	4.38	96.96	Thursday
7/14/2004	5:54:12	5:55:53	87	1.68	51.68	Wednesday
7/13/2004	8:45:54	8:47:13	96	1.32	72.91	Tuesday
7/12/2004	5:54:09	5:55:37	94	1.47	64.09	Monday
7/11/2004	5:54:28	5:56:07	94	1.65	56.97	Sunday
7/10/2004	5:52:28	5:53:42	94	1.23	76.22	Saturday
7/9/2004	5:49:51	5:52:46	88	2.92	30.17	Friday
7/8/2004	8:45:01	8:46:57	66	1.93	34.14	Thursday

2004 Process Improvements Planned

- Continue to target the 4:00 am 7:00 am window
 - ETL All-the-Time Process to run Q-E-P multiple times each day
 - Goal 1:00-2:00 am for both initial and settlement adjustment cutoff as compared to 11:00 pm and
 9:30 pm day before used today
 - Provides a foundation for multiple DSS loads per day compared to single daily load used today
- Monitor and implement performance enhancements as identified for ADD Phase I
- Eliminate the lag on invoice load day
 - 7/13/04 ADD completed 8:47 am
 - 6/17/04 ADD pre-release completed 8:42 am
- Alternate Data Delivery Phase 2
 - Provide mechanism for users to define custom download format
 - Scheduled end of Q4, 2004

Questions?