

Daniel Zhang (張道博) Issues Report

From: Maui-Smart-Grid

Bug

MSG-26 — convert all sql execute calls to new method

Comments

Daniel Zhang (張道博)
06 Apr 2013 16:15

Commit made by **Daniel Zhang** on 2013-04-06T19:15:06-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/2a616743cd2c0502795fb7619209b4a2a9928d00>

| setting all executes to use same method: #MSG-26 In Progress

Daniel Zhang (張道博)
16 Apr 2013 12:54

All db executes are now through the db utils.

MSG-55 — full test run is stalling on meco dupe check test

Comments

Daniel Zhang (張道博)
22 Apr 2013 16:08

Commit made by **Daniel Zhang (張道博)** on 2013-04-22T19:08:25-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/f47069a4b4ebc9c4b45d2553f64b7d9c0f12c0af>

| changed erase test meco to commit after every op to reduce transactions; full test run completes successfully: #MSG-55 fixed

MSG-71 — update test___mecodbutil.py to meco_v3

Comments

Daniel Zhang (張道博)
29 Apr 2013 15:09

Commit made by **Daniel Zhang (張道博)** on 2013-04-29T18:09:22-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/9d8a00c885bf6e2fd3ca435962a4dc949c5bcc8d>

| added event data tables to erase method; further reduction of test data: #MSG-71 fixed

MSG-105 — create testing suite runner script

MSG-153 — database connection messages are conflicting

Example from test___mecodbinsertter.py:

Testing Mode is ON.
Using database test_meco.
Using database meco_v3.

Closing the DB connection to meco_v3.

-----MeterData

```
{'UtilDeviceID': 'util_device_id', 'MacID': 'mac_id', 'MeterName': 'meter_name', '_pkey': 'meter_data_id'}
{'MacID': '00:00:00:00:00:00:00:00', 'UtilDeviceID': '100001', 'MeterName': '100001'}
```

```
util_device_id 100001
```

```
mac_id 00:00:00:00:00:00:00:00
```

```
meter_name 100001
```

```
meter_data_id DEFAULT
```

```
sql=insert into "MeterData" (util_device_id,meter_data_id,created,mac_id,meter_name) values
```

```
('100001',DEFAULT,NOW(), '00:00:00:00:00:00:00:00', '100001')
```

```
SQL execute was successful.
```

```
table name = MeterData
```

```
column name = meter_data_id
```

```
SQL execute was successful.
```

```
lastSeqVal = 2
```

```
selectRecord:
```

```
SQL execute was successful.
```

```
SQL execute was successful.
```

```
Closing database test_meco.
```

```
Testing Mode is ON.
```

```
Using database test_meco.
```

```
Using database meco_v3.
```

```
Closing the DB connection to meco_v3.
```

```
Closing database test_meco.
```

```
Testing Mode is ON.
```

```
Using database test_meco.
```

```
Using database meco_v3.
```

```
Closing the DB connection to meco_v3.
```

```
Closing database test_meco.
```

```
Closing the DB connection to test_meco.
```

Comments

Daniel Zhang (張道博)

31 May 2013 14:56

The test is likely accessing both databases. It should only access the testing database.

Daniel Zhang (張道博)

07 Aug 2013 16:04

This is resolved due to there being no problem with respect to multiple database accesses.

MSG-164 — concise logs are not showing meaningful values for duplicates during insert

See [#MSG-160](#).

MSG-180 — fix missing readings not inserted during secondary loading

Comments

Daniel Zhang (張道博)

13 Jun 2013 18:35

An isolated test using test data:

meco_v3-energy-test-data_with_missing_interval.xml.gz
meco_v3-energy-test-data.xml.gz

resulted in all readings being inserted.

Results with actual data cannot be confirmed yet. The attachment shows a discrepancy between secondary loading to meco_v3 versus primary loading to meco_v4.

Daniel Zhang (張道博) 21 Jun 2013 17:03	A selection of readings with counts of 12 & 24 are identified as not being dupes. They have been loaded to the DB.
Daniel Zhang (張道博) 21 Jun 2013 23:34	Reading counts are matching dupe counts exactly during insert but actual DB data is different between v3 and v4 where v3 contains 2013-Mar data from the original export and the re-extracted export and v4 contains only the re-extracted export.
Daniel Zhang (張道博) 22 Jun 2013 00:37	Attachment shows difference in DB.
Daniel Zhang (張道博) 22 Jun 2013 01:33	Loading 2013-Mar original data to v4 results in the reading/meter counts matching indicating the re-extracted data has less readings than the original+re-extracted. No missing readings are detected as a result of loading.

MSG-209 — reading/meter plots appear to have doubled plotting

Comments

Daniel Zhang (張道博)
21 Jun 2013 16:10

Commit made by **Daniel Zhang (張道博)** on 2013-06-21T19:10:28-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/103ad7ab30ae7a9e0e6b68dced73eebb0b5df11f>

| the operational class had TEST_SCRIPT=True: #MSG-209 fixed

MSG-210 — logger error occurs during send mail

attachment = /home/daniel/msg-plots/ReadingAndMeterCounts.png

Sending multipart email.

Attaching file /home/daniel/msg-plots/ReadingAndMeterCounts.png.

Traceback (most recent call last):

File "/home/daniel/dzmbp-maui-smart-grid/src/recursiveInsertData.py", line 192, in <module>
commandLineArgs.testing)

File "/home/daniel/dzmbp-maui-smart-grid/src/meconotifier.py", line 164, in sendMailWithAttachments
sys.logger.log('No exceptions occurred.\n', 'info')

AttributeError: 'module' object has no attribute 'logger'

Comments

Daniel Zhang (張道博)
29 Jul 2013 15:56

Fixed in #MSG-223.

MSG-221 — event duplicates are not detected on secondary loading

Inserting data to database test_meco.

Parsing XML in ./meco_v3-energy-test-data.xml.gz.

```
{re-dupe==>}{rd-dupe==>}{32rd,56re,0ev}{0}[125]<0rd,0re,4ev,37,37>—{0rd,0re,0ev}{0}[125]<0rd,0re,0ev,0,37>*
```

2013-06-28 16:22:20,262 - mecoxmlparser - INFO - Data process count = 125.

2013-06-28 16:22:20,262 - mecoxmlparser - INFO - Reading dupe check count = 32.

real 0m0.873s

user 0m0.604s

sys 0m0.044s

Comments

Daniel Zhang (張道博)

28 Jun 2013 16:45

Commit made by **Daniel Zhang (張道博)** on 2013-06-28T19:45:28-07:00

<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/9c39b17b090443df3ccf1049519d7f65949fe674>

| event dupes are detected and dropped: #MSG-221 fixed

MSG-223 — error during loading

2013-07-02 15:22:15,942 - mecoxmlparser - INFO - Data process count = 694454.

2013-07-02 15:22:15,942 - mecoxmlparser - INFO - Reading dupe check count = 541440.

plotPath = /home/daniel/msg-plots

attachment = /home/daniel/msg-plots/ReadingAndMeterCounts.png

Sending multipart email.

Attaching file /home/daniel/msg-plots/ReadingAndMeterCounts.png.

Traceback (most recent call last):

```
File "/home/daniel/dzmbp-maui-smart-grid/src/recursivelyInsertData.py", line 193, in <module>
    commandLineArgs.testing)
```

```
File "/home/daniel/dzmbp-maui-smart-grid/src/meconotifier.py", line 164, in sendMailWithAttachments
    sys.logger.log('No exceptions occurred.\n', 'info')
```

AttributeError: 'module' object has no attribute 'logger'

Comments

Daniel Zhang (張道博)

17 Jul 2013 15:42

Commit made by **Daniel Zhang (張道博)** on 2013-07-17T18:41:34-07:00

<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/a4a05a2bf08fb361de8fd8cc6c1225bbfd6fb02e>

| fixing logger warning: #MSG-223 fixed

MSG-277 — loading doesn't terminate after keyboard interrupt

Comments

Daniel Zhang (張道博)

12 Aug 2013 15:51

Commit made by **Daniel Zhang (張道博)** on 2013-08-12T18:51:35-07:00

<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/6a8079470534f50e15386e06b9603124c7716c46>

| parallelized data loading: #MSG-272 fixed

| keyboard interrupt terminates loading: #MSG-277 fixed

MSG-281 — concise log is not being emailed

Comments

Daniel Zhang (張道博) Loader needs to use a queue.
13 Aug 2013 17:38

Daniel Zhang (張道博) Commit made by **Daniel Zhang (張道博)** on 2013-08-13T20:51:25-07:00
13 Aug 2013 17:51 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/44a8af5b9ed73da55377ee3e342fc90ccb348ab0>

| switched to queue: #MSG-281 In Progress

Daniel Zhang (張道博)
13 Aug 2013 17:53

- Need to get the parse results from the queue.
- Need to pass the process ID to the parser.

Daniel Zhang (張道博) Commit made by **Daniel Zhang (張道博)** on 2013-08-14T18:21:21-07:00
14 Aug 2013 15:21 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/cd00001b03bf7a2d0e75bf3efe308ceee2c9635e>

| process id is passed: #MSG-281 In Progress

Daniel Zhang (張道博) Commit made by **Daniel Zhang (張道博)** on 2013-08-14T20:15:35-07:00
14 Aug 2013 17:15 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/9bc0d6fb11400d6a275eca85246d2fc31a0c10d1>

| concise log is restored to email: #MSG-281 fixed

MSG-291 — weather data loading is not seeing non-loaded entries

Comments

Daniel Zhang (張道博) Commit made by **Daniel Zhang (張道博)** on 2013-08-19T19:40:47-07:00
19 Aug 2013 16:42 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/2b7b3355ffc884d6b618569a2f1452cdf64b392>

| made keep list use last day in month: #MSG-291 fixed

MSG-311 — an additional, duplicate, download task is being performed during secondary retrieval
Additional retrievals can be the past month and one month before that. The calculation of the keep list needs to be examined.

Comments

Daniel Zhang (張道博) Commit made by **Daniel Zhang (張道博)** on 2013-09-11T16:10:32-07:00
11 Sep 2013 13:10 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/4c4bd146ccc6bdc0d97644c63ba68b2adef3383b>

| updating documentation: #MSG-311 In Progress

Daniel Zhang (張道博)
11 Sep 2013 14:34

Commit made by **Daniel Zhang (張道博)** on 2013-09-11T17:33:44-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/d634c3dbbfd08c924d34315be3426ccb7724f2c8>

sorted out downloads: #MSG-311 fixed

- End of month case should be verified.

If last loaded date is in the last month, there should be two downloads, the last month and the current month.

MSG-325 — weather data directory not accessed during insertion

... File "/usr/lib/python2.7/gzip.py", line 89, in __init__
fileobj = self.myfileobj = __builtin__.open(filename, mode or 'rb')
IOError: [Errno 2] No such file or directory: './201308hourly.txt.gz'

Comments

Daniel Zhang (張道博)
05 Sep 2013 15:33

Commit made by **Daniel Zhang (張道博)** on 2013-09-05T18:33:04-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/a5565d01bc31baa9cac94fcc0b5612224aeb503a>

insert uses weather data path: #MSG-325 fixed

Feature

MSG-2 — Testing

Comments

Daniel Zhang (張道博)
14 May 2013 13:20

All tests pass.

MSG-3 — Data Insertion

MSG-20 — meco_v2

MSG-45 — Event Data

Comments

Daniel Zhang (張道博)
24 Apr 2013 14:55

Commit made by **Daniel Zhang (張道博)** on 2013-04-24T17:55:03-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/52f40d3577deab1c18a6a8333c0b393eb13a06f2>

creating v3: #MSG-45 in progress

MSG-56 — Notifications

- [MSG-122](#) — Views
- [MSG-156](#) — MECO Data Loading
- [MSG-175](#) — Weather Data Loading
- [MSG-198](#) — Logging
- [MSG-216](#) — Database Maintenance
- [MSG-231](#) — Meter Location History
- [MSG-266](#) — Testing
- [MSG-279](#) — Views
- [MSG-283](#) — Error Handling
- [MSG-297](#) — eGauge Readings
- [MSG-337](#) — Installer
- [MSG-347](#) — Documentation
- [MSG-373](#) — Cloud Export
- [MSG-382](#) — System Administration
- [MSG-400](#) — Distribution
- [MSG-407](#) — Data Processing
- [MSG-412](#) — Code Maintenance

Task

[MSG-1](#) — setup test XML source data for test____mecoxmlparser.py

[MSG-4](#) — perform dupe check prior to insertion

Comments

Daniel Zhang (張道博)	dupe checking on meter name and interval end time works but there exists duplicate
21 Mar 2013 17:44	channel data in the raw data

[MSG-5](#) — have meter data, meter IDs, be unique

Comments

Daniel Zhang (張道博)	meter ids should be recorded once and only once
15 Mar 2013 16:05	

Daniel Zhang (張道博)	this may not be necessary
21 Mar 2013 17:44	

[MSG-6](#) — insert test data to test_meco database

Comments

Daniel Zhang (張道博)	insert of testing data works fine
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15 Mar 2013 16:04

MSG-7 — reduce static test data set

MSG-8 — setup insert test data for dupe check test

Daniel Zhang (張道博) The same sample data used for the parser test is being used by the dupe check test.
17 Apr 2013 13:25

MSG-9 — determine how to dupe check when parsing data

Daniel Zhang (張道博) dupe checking can be accomplished by referencing the meter data id and the end_time (reading branch) or the read_time (register branch)
20 Mar 2013 16:39

MSG-10 — determine where to rollback or stop a commit when a dupe is present

Daniel Zhang (張道博) currently, the end of the reading branch is the commit point.
21 Mar 2013 08:16
does this need to be implemented to explicitly handle the register branch?

MSG-11 — intercept duplicate channel data

Daniel Zhang (張道博) there appear to be duplicates of reading data in the raw data. these need to be intercepted and prevented from being inserted into the database.
22 Mar 2013 16:44

Daniel Zhang (張道博) using a combined meterName-IntervalEndTime-channel field is possible to ensure data integrity.
22 Mar 2013 16:46

Daniel Zhang (張道博) the reading branch is covered for duplicates now.
25 Mar 2013 01:47

MSG-13 — add additional check to verify that duplicate rows to be discarded have equivalent data in the database

Daniel Zhang (張道博) Commit made by **Daniel Zhang** on 2013-03-25T04:40:24-07:00
25 Mar 2013 01:44
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/fbff88b9cc88d4d814b34de737d45add9d7aa0c4>

changing dupe handling method, focusing on reading branch: #MSG-13 In Progress

Daniel Zhang (張道博) removed rollback when dupes are present. testing on meterName-endTime-channel is lower level than meterName-endTime.
25 Mar 2013 01:49

Daniel Zhang (張道博) Commit made by **Daniel Zhang** on 2013-03-25T14:07:15-07:00
25 Mar 2013 11:07
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/fe29ca7966c091c0deb2ea06a9884b5d52c881c7>

| typecasting for equality checks works; disabling rollback on dupes: #MSG-13 Fixed

MSG-14 — check for duplicates on the register branch

MSG-15 — stop rolling back for duplicates, rely on three-element unique identifier (meter name, end time, channel) instead

MSG-16 — write equality verification test when dropping reading data due to duplication

Comments

Daniel Zhang (張道博) This has been accomplished in test____mecodupecheck.py.
17 Apr 2013 13:24

Daniel Zhang (張道博) An equality check is performed during insertion of data and a separate test is not needed.
17 Apr 2013 15:18

MSG-17 — move debug option to local config

Comments

Daniel Zhang (張道博) Commit made by **Daniel Zhang** on 2013-03-26T21:08:16-07:00
26 Mar 2013 18:08 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/cd5d70316b00b2135cfc99c61ea7887277ccf9ca>

| moving debug option: #MSG-17 In Progress

Daniel Zhang (張道博) The debugging option works through the local configuration.
07 Jun 2013 13:34

MSG-18 — create meco_v2 from latest development

Comments

Daniel Zhang (張道博) Commit made by **Daniel Zhang** on 2013-03-26T21:06:14-07:00
26 Mar 2013 18:06 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/0791eaa0ba2f8398806f52a446f67a4dc47531c5>

| adding tables for meco_v2: #MSG-18 In Progress

Daniel Zhang (張道博) still need to add kahalui weather data
01 Apr 2013 10:47

Daniel Zhang (張道博) Commit made by **Daniel Zhang** on 2013-04-02T01:34:57-07:00
01 Apr 2013 22:35 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/9fe44c81b3e1f0d1aab1f7d38a2263781e04c00a>

| adjust weather script: #MSG-18 Fixed

MSG-19 — eliminate duplicate data insertion in 2012 data

MSG-21 — insert aug 2012

MSG-22 — insert sep 2012

MSG-23 — insert oct 2012

MSG-24 — add creation timestamp to meter data table

Comments

Daniel Zhang (張道博)
27 Mar 2013 22:14

Commit made by **Daniel Zhang** on 2013-03-28T01:14:34-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/7b613dd8d8dd62585626da34e535dc6165bc62d9>

#MSG-24 In Progress

adding creation timestamp upon insert

MSG-25 — change parser to use in-memory file object instead of file on disk
this is for gzip support

MSG-27 — transfer views from meco_v1 to meco_v2

Comments

Daniel Zhang (張道博)
02 Apr 2013 17:47

Commit made by **Daniel Zhang** on 2013-04-02T20:46:03-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/808bc26c0b6037f67f7b3380713b93af94338126>

dumped meco_v1 structure, tables and views: #MSG-27 In Progress

Daniel Zhang (張道博)
02 Apr 2013 18:07

Commit made by **Daniel Zhang** on 2013-04-02T21:07:02-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/736d2a6ceb45fe173ee71f4f0e6379f580337a36>

separating tables and views for meco_v1: #MSG-27 In Progress

Daniel Zhang (張道博)
03 Apr 2013 10:45

Commit made by **Daniel Zhang** on 2013-04-03T13:45:41-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/03a9e668436cb416d37376bcb4b9ad04eed5b911>

dumping structure for meco_v2 including transfer of views from meco_v1: #MSG-27
Fixed

MSG-28 — fix test____mecodbinsserter.py

Comments

Daniel Zhang (張道博)
05 Apr 2013 16:59

Commit made by **Daniel Zhang** on 2013-04-05T19:59:35-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/ea22443b8db41831f1f45593e344578852de188c>

adding testing meter data table: #MSG-28 fixed

MSG-29 — fix test____mecodbread.py

Comments

Daniel Zhang (張道博) 05 Apr 2013 18:01	mapper needs updating
Daniel Zhang (張道博) 06 Apr 2013 01:16	sequence didn't get copied with table copy. add the default value for meter data id and now problem is down to retrieving last sequence value.
Daniel Zhang (張道博) 06 Apr 2013 15:46	Commit made by Daniel Zhang on 2013-04-06T04:55:09-07:00 https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/77f90dd3cbeadd9e4feec6cebf677cf38784ca80 fixing test by correcting use of sequence: #MSG-29 In Progress
Daniel Zhang (張道博) 06 Apr 2013 15:46	Commit made by Daniel Zhang on 2013-04-06T18:46:19-07:00 https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/d05bf15f3a84739bfe2dbca5ed947ffb604cc500 add sequence to update testing table: #MSG-29 fixed

MSG-30 — fix test____mecodbutil.py

Comments

Daniel Zhang (張道博) 06 Apr 2013 15:48	Commit made by Daniel Zhang on 2013-04-06T18:48:11-07:00 https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/0f11122ae0108239cf43f7c18ead18ccbd38516c change table name: #MSG-30 Fixed
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MSG-31 — fix test____mecoxmlparser.py

Comments

Daniel Zhang (張道博) 09 Apr 2013 15:56	this test needs to be changed to use the test database
Daniel Zhang (張道博) 09 Apr 2013 17:40	Commit made by Daniel Zhang (張道博) on 2013-04-09T20:39:24-07:00 https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/ec428ec772877f826c5c5691846a73834bb172c9 getting parser test to use new testing mode: #MSG-31 in progress
Daniel Zhang (張道博) 10 Apr 2013 17:57	Commit made by Daniel Zhang (張道博) on 2013-04-10T20:57:04-07:00 https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/d3dc9406f55311414a9ca9c2f059ea599a486388 Dumping meco_v2 structure again: #MSG-31 in progress The sequence was wrongly set to the testing meter data sequence id for the meter data table. It has now been set correctly.

Daniel Zhang (張道博)
11 Apr 2013 18:24

Commit made by **Daniel Zhang (張道博)** on 2013-04-11T21:24:19-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/b66ce5b4d2fa85a89194ac34f8dae41f917a53ac>

testEveryElementIsVisited() requires an empty database; setup erase of testing database (test_meco) before the test: #MSG-31 in progress

Daniel Zhang (張道博)
13 Apr 2013 03:33

Commit made by **Daniel Zhang (張道博)** on 2013-04-13T00:53:44-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/eb048e1e7040cf8b2d78dcd1dc468a186e2da4af>

parser tests are now passing: #MSG-31 fixed

Committing after erasing test_meco, and before running the parser tests, is critical. Not committing results in the server hanging.

MSG-32 — insert new data up to 2013 Mar 11 download

MSG-33 — determine correct cursor usage

ref: <http://www.python.org/dev/peps/pep-0249/#cursor-objects>

Passing a cursor around may be unnecessary in python. Does it matter whether the cursor reference is maintained during a sequence of database operations?

Comments

Daniel Zhang (張道博)
09 Apr 2013 18:12

do cursors need to be passed as parameters?

MSG-34 — ensure that testing tables are fully cleaned after testing

Comments

Daniel Zhang (張道博)
17 Apr 2013 13:08

Testing tables are being cleaned BEFORE testing.

Database test_meco is erased prior to running tests on it.

MSG-35 — rebuild truncated testing data set from latest data export

Comments

Daniel Zhang (張道博)
07 Jun 2013 13:33

The current truncated testing data set is based on export data from 2013-Apr.

MSG-36 — fix test_mecodupecheck.py

Comments

Daniel Zhang (張道博)
16 Apr 2013 12:52

Commit made by **Daniel Zhang (張道博)** on 2013-04-16T15:52:45-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/82ee467702978b0cd99cd78a548fe1c2f75657cd>

checking for a duplicate in the reading branch works: #MSG-36 fixed

MSG-37 — have a script for creating a new meco database

The script is used to set up the structure of the database once the database has been created on the server.

Comments

Daniel Zhang (張道博)
09 Apr 2013 17:40

Commit made by **Daniel Zhang (張道博)** on 2013-04-09T20:39:58-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/8816e738197b8d1e953715531be2213ed502979a>

| creating script for creating a new meco db: #MSG-37 in progress

Daniel Zhang (張道博)
09 Apr 2013 18:35

Commit made by **Daniel Zhang (張道博)** on 2013-04-09T21:35:02-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/c25de2cd02ad44fd461744180b7c8a21ee4d738a>

| adding full meco_v2 structure dump: #MSG-37 in progress

MSG-38 — verify that test___mecoxmlparser.py is using test_meco as its database

Comments

Daniel Zhang (張道博)
11 Apr 2013 16:57

A separate parameter is being used now that indicates if testing mode is enabled. When testing mode is enabled, then the test_meco database should be used for tests involving db connections.

MSG-39 — verify database name in eraseTestMeco()

Comments

Daniel Zhang (張道博)
18 Apr 2013 12:25

Database name must match testing_db_name exactly.

Daniel Zhang (張道博)
19 Apr 2013 14:34

Commit made by **Daniel Zhang (張道博)** on 2013-04-19T17:34:18-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/dc1c10365eabdf4c498008762c9b8e61ebb65747>

| database name is verified when the testing database is erased: #MSG-39 fixed

MSG-40 — switch all testing operations to test_meco

All database operations during testing should use the testing database or test_meco exclusively. This is accomplished by setting the Testing argument to True for supported classes.

The classes that accept the testing argument are:

meco db connect and meco xml parser

Comments

Daniel Zhang (張道博)
22 Apr 2013 14:43

Commit made by **Daniel Zhang (張道博)** on 2013-04-22T17:42:56-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/f993a9687d2475300e916c490ff679cfb1a0d9b9>

testing operations have been switched to testing database: #MSG-40 fixed

There is a problem of the test suite freezing when running all tests that does not happen when running tests individually.

MSG-41 — Provide permissions checking for .meco-data-operations.cfg

Comments

Daniel Zhang (張道博)
17 Apr 2013 13:27

World readability needs to be disabled. Ideally permissions should be no more than owner readable and writable.

Daniel Zhang (張道博)
17 Apr 2013 16:04

Commit made by **Daniel Zhang (張道博)** on 2013-04-17T19:03:55-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/fc7d67a13fb0d9539ca2d23eeec914914d5a35e4>

tightened required config permissions: #MSG-41 fixed

MSG-42 — insert new data for 2013-Mar-18 to 2013-Apr-15

2013_03_18_download
2013_03_25_download
2013_04_01_download
2013_04_08_download
2013_04_15_download

MSG-43 — verify that config option for debugging-debug works correctly

There is too much output to the console and the debugging-debug flag doesn't seem to be respected.

Comments

Daniel Zhang (張道博)
07 Jun 2013 13:35

The local debugging option works correctly when its value is properly evaluated.

MSG-44 — remove testing_meterdata table

Comments

Daniel Zhang (張道博)
23 Apr 2013 14:27

The testing meter data table will be removed from meco_v3.

Daniel Zhang (張道博)
23 Apr 2013 15:14

Commit made by **Daniel Zhang (張道博)** on 2013-04-23T18:13:12-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/df3d63cb6e9b3a1e0e335cb5efc6eaa488d5cac2>

removing references to testing meter data table: #MSG-44 in progress

Daniel Zhang (張道博)
23 Apr 2013 15:17

The test suite passes.

Daniel Zhang (張道博)
23 Apr 2013 16:08

Testing MeterData was removed from test_meco and all tests still pass.

MSG-46 — create tables for event data**MSG-48** — change insertion code to handle event data

Comments

Daniel Zhang (張道博)
30 Apr 2013 15:27

Event data is being inserted as a result of modifying the classes to get the tests to work.

MSG-49 — Provide parsing of event data

Comments

Daniel Zhang (張道博)
25 Apr 2013 16:08

Commit made by **Daniel Zhang (張道博)** on 2013-04-25T19:08:03-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/d3c038593fe68432bd40c1a83a129ea1cea1fe76>

| starting to provide parsing of event data: #MSG-49 in progress

Daniel Zhang (張道博)
30 Apr 2013 15:29

Event data is parsed as a result of getting the relevant tests to work.

MSG-50 — update schema diagram

Comments

Daniel Zhang (張道博)
24 Apr 2013 13:44

Commit made by **Daniel Zhang (張道博)** on 2013-04-24T16:38:16-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/c705aae42f383d6477e4ed790fc99139ddfd618f>

| created v3 diagrams: #MSG-50 fixed

MSG-51 — Determine an official location for data that has been, or will be, inserted to the database**MSG-53** — add UIQ vs net metering data as a table in the database**MSG-57** — send email on successful data insert

Comments

Daniel Zhang (張道博)
13 May 2013 15:54

Commit made by **Daniel Zhang (張道博)** on 2013-05-13T18:54:49-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/e908bc7d80ee2f9b63635e837534a7480a335538>

| starting class and tests: #MSG-57 in progress

Daniel Zhang (張道博)
15 May 2013 15:13

Commit made by **Daniel Zhang (張道博)** on 2013-05-15T18:13:25-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/bc2e43f5b2ef5f17026b0a1fb5a44d0a25aa06dd>

| email on data loading works: #MSG-57 fixed
#MSG-107 fixed
#MSG-104 fixed
#MSG-106 fixed

MSG-58 — setup remote login for enter encryption passphrase

MSG-59 — create sequences for event data tables

MSG-60 — provide SQL dump file for meco_v3

Comments

Daniel Zhang (張道博)
24 Apr 2013 14:56

Commit made by **Daniel Zhang (張道博)** on 2013-04-24T17:56:38-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/005bf54cdf317ce67d8e52e32aaefc89a8f1784>

providing sql dump file: #MSG-60 in progress

Daniel Zhang (張道博)
06 May 2013 17:53

Commit made by **Daniel Zhang (張道博)** on 2013-05-06T20:53:41-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/93afae27e5647234a8f4315ed6a721cd54a46cef>

adding cascade update and delete to EventData, Interval, and Reading: #MSG-79 fixed
#MSG-60 fixed

MSG-61 — Establish table ownership for sequences

MSG-62 — add foreign keys to event data tables

Comments

Daniel Zhang (張道博)
24 Apr 2013 16:35

Commit made by **Daniel Zhang (張道博)** on 2013-04-24T19:35:41-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/f7b228e909139c7ce651e5652eea6efad9fbfb2b>

added foreign keys: #MSG-62 fixed

MSG-63 — add primary keys to event tables

MSG-66 — migrate test_meco to meco_v3

Setup test_meco using the meco_v3 schema.

Comments

Daniel Zhang (張道博)
25 Apr 2013 14:48

Commit made by **Daniel Zhang (張道博)** on 2013-04-25T17:48:28-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/8d239f3182618edae366626960739daa77350999>

configured test_meco to match meco_v3: #MSG-66 fixed

Daniel Zhang (張道博)
25 Apr 2013 15:15

All tests pass.

MSG-67 — Create new test data set based on latest data that includes event data

Comments

Daniel Zhang (張道博)
29 Apr 2013 13:45

Commit made by **Daniel Zhang (張道博)** on 2013-04-29T16:45:20-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/8113f32019f7fc9d3c876c2b4dd55c4d05206386>

created new truncated, value changed, test data file based on latest data: #msg-67 fixed

Daniel Zhang (張道博)
29 Apr 2013 13:57

Commit made by **Daniel Zhang (張道博)** on 2013-04-29T16:57:08-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/98b6492ed15f46c991d53366f8b0a833cc4a8e01>

reduced test data by removing intervals: #msg-67 fixed

NumberIntervals is now incorrectly specified.

Daniel Zhang (張道博)
29 Apr 2013 13:59

Commit made by **Daniel Zhang (張道博)** on 2013-04-29T16:59:26-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/2376b494c6d7f7b1ff51509723c89d13f00444b4>

further reduction of test data set for faster testing: #MSG-67 fixed

MSG-68 — Update unit tests to use new test data (v3)

MSG-69 — update test____mecoxmlparser.py to meco_v3

Comments

Daniel Zhang (張道博)
29 Apr 2013 15:48

Commit made by **Daniel Zhang (張道博)** on 2013-04-29T18:48:26-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/ad8d7a5525e060a68668b0e682dd390ded3e527c>

updated parser test for v3: #MSG-69 fixed

MSG-70 — update test____mecodupecheck.py to meco_v3

Comments

Daniel Zhang (張道博)
29 Apr 2013 16:19

Commit made by **Daniel Zhang (張道博)** on 2013-04-29T19:19:04-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/9ca18bad94ea990ff78e962752312b0e2e1aa15e>

updated dupe check test to v3: #MSG-70 fixed

MSG-72 — verify event data is processed by testing suite

The loading of event data should be verifiable in the testing database.

Comments

Daniel Zhang (張道博)
30 Apr 2013 15:26

Event data is being loaded to the testing database.

MSG-73 — process event text

The separate event text is not being handled.

Comments

Daniel Zhang (張道博)
02 May 2013 16:16

Commit made by **Daniel Zhang (張道博)** on 2013-05-02T19:16:38-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/17bc89bf2cc76f2825bde39af77f903375844721>

changing parser to handle event text: #MSG-73 in progress

Daniel Zhang (張道博)
03 May 2013 14:49

Commit made by **Daniel Zhang (張道博)** on 2013-05-03T17:49:46-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/1c907083aae7e24c31f44ddb9bf6b1bf97b4df76>

event text is now being handled: #MSG-73 fixed

MSG-74 — verify that foreign keys are generated for event data**MSG-75** — fix test____mecoxmlparser.py after breakage from refactoring

Comments

Daniel Zhang (張道博)
02 May 2013 13:13

Commit made by **Daniel Zhang (張道博)** on 2013-05-02T16:13:39-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/47e9816d1af03a07433709c012c0ec6993f33c2d>

fixing parse test: #MSG-75 in progress

Daniel Zhang (張道博)
02 May 2013 13:34

'None' is being incorrectly used as a foreign key.

-----MeterData

```
{'UtilDeviceID': 'util_device_id', 'MacID': 'mac_id', 'MeterName': 'meter_name', '_pkey': 'meter_data_id'}
{'MeterName': '100000', 'UtilDeviceID': '100000', 'MacID': '00:00:00:00:00:00:00:00'}
util_device_id 100000
mac_id 00:00:00:00:00:00:00:00
meter_name 100000
meter_data_id DEFAULT
sql=insert into "MeterData" (util_device_id,meter_data_id,created,mac_id,meter_name)
values ('100000',DEFAULT,NOW(),'00:00:00:00:00:00:00:00','100000')
SQL execute was successful.
table name = MeterData
column name = meter_data_id
SQL execute was successful.
fkeyColName = None
-----RegisterData
```

```
{'NumberReads': 'number_reads', 'EndTime': 'end_time', '_fkey': 'meter_data_id',
'StartTime': 'start_time', '_pkey': 'register_data_id'}
```

```
{'NumberReads': '7', 'EndTime': '2013-04-14T06:00:08.748-10:00', 'StartTime': '2013-04-08T06:00:08.241-10:00'}
number_reads 7
end_time 2013-04-14T06:00:08.748-10:00
meter_data_id None
start_time 2013-04-08T06:00:08.241-10:00
register_data_id DEFAULT
sql=insert into "RegisterData"
(start_time,meter_data_id,number_reads,register_data_id,end_time) values ('2013-04-08T06:00:08.241-10:00','None','7',DEFAULT,'2013-04-14T06:00:08.748-10:00')
SQL execute failed using insert into "RegisterData"
(start_time,meter_data_id,number_reads,register_data_id,end_time) values ('2013-04-08T06:00:08.241-10:00','None','7',DEFAULT,'2013-04-14T06:00:08.748-10:00').
The error is: invalid input syntax for integer: "None"
LINE 1: ...end_time) values ('2013-04-08T06:00:08.241-10:00','None','7'...
```

^

```
table name = RegisterData
column name = register_data_id
SQL execute failed using select
currval(pg_get_serial_sequence("RegisterData",'register_data_id')).
The error is: current transaction is aborted, commands ignored until end of transaction block
```

Daniel Zhang (張道博)
02 May 2013 13:53

Commit made by **Daniel Zhang (張道博)** on 2013-05-02T16:52:45-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/33b64da3e6f9405f1a0104cc6715a2ba058010b0>

Reverting parser to last working state: #MSG-75 in progress

This reverts commit 47e9816d1af03a07433709c012c0ec6993f33c2d.

MSG-76 — be able to run tests within local environment

Daniel Zhang (張道博)
13 May 2013 14:41

Local environment testing can be accomplished by adding the MECO src path to PYTHONPATH.

MSG-77 — test insertion of test data to meco_v3

Daniel Zhang (張道博)
07 May 2013 15:05

Data is being successfully inserted.

MSG-78 — fix get last sequence ID for parser

parsing xml in ./meco_v3-energy-test-data.xml

Traceback (most recent call last):

File "/home/daniel/dzmbp-maui-smart-grid/src/insertData.py", line 57, in <module>

i.parser.parseXML(fileObject, True)

File "/home/daniel/dzmbp-maui-smart-grid/src/mecoxmlparser.py", line 93, in parseXML

self.walkTheTreeFromRoot(root)

File "/home/daniel/dzmbp-maui-smart-grid/src/mecoxmlparser.py", line 217, in walkTheTreeFromRoot

pkeyCol)

File "/home/daniel/dzmbp-maui-smart-grid/src/mecodbutils.py", line 41, in getLastSequenceID

row = cur.fetchone()

psycopg2.ProgrammingError: no results to fetch

Comments

Daniel Zhang (張道博)

06 May 2013 16:00

Commit made by **Daniel Zhang (張道博)** on 2013-05-06T19:00:26-07:00

<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/33310de23a993896e71d12b7abde1644982f0ff9>

debugging last sequence id error: #MSG-78 in progress

Daniel Zhang (張道博)

07 May 2013 15:04

This error is no longer occurring.

MSG-79 — Change foreign keys to cascade delete and update

This is to allow deleting of branches from their respective meter data roots.

Comments

Daniel Zhang (張道博)

06 May 2013 17:53

Commit made by **Daniel Zhang (張道博)** on 2013-05-06T20:51:36-07:00

<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/12e1b030fcdfe6e07512f8af2933543ff8271912>

changed erase code in response to having cascading update and delete with MeterData as the root: #MSG-79 in progress

Daniel Zhang (張道博)

06 May 2013 17:53

Commit made by **Daniel Zhang (張道博)** on 2013-05-06T20:53:41-07:00

<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/93afae27e5647234a8f4315ed6a721cd54a46cef>

adding cascade update and delete to EventData, Interval, and Reading: #MSG-79 fixed
#MSG-60 fixed

MSG-80 — provide updated full structure dump for meco_v2

Comments

Daniel Zhang (張道博)

07 May 2013 13:52

Commit made by **Daniel Zhang (張道博)** on 2013-05-07T16:52:09-07:00

<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/9e971ce0b639b4ca0fc0f115f4dab4efa260540c>

updating meco_v2: #MSG-80 fixed

MSG-81 — Test insertion of actual data to meco_v3

Comments

Daniel Zhang (張道博)
07 May 2013 15:53

Data was successfully inserted.

```
Inserting data to database meco_v3.
parsing xml in ./20130415-77fdd50d-4768-44fb-b8e1-50d8eafaa114-1-1.xml.gz
{0}[0](6878){0}[1](10313){0}[2](20739){0}[3](24174){0}[4](27609){0}[5](31044){0}[6](34479)
{0}[7](37915){0}[8](44788)
parsing xml in ./20130415-77fdd50d-4768-44fb-b8e1-50d8eafaa114-2-1.xml.gz
{0}[0](51662){0}[1](55097){0}[2](61971){0}[3](65407){0}[4](72280){0}[5](75715){0}[6](82611)
{0}[7](89485){0}[8](92921)
real    3m46.910s
user    0m48.983s
sys     0m59.076s
```

MSG-82 — write recursive insert script

Comments

Daniel Zhang (張道博)
08 May 2013 18:23

Commit made by **Daniel Zhang (張道博)** on 2013-05-08T21:23:28-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/f52aaa6b264293f43ee49bb705963b4462678549>

| writing script for recursive insert: #MSG-82 in progress

Daniel Zhang (張道博)
09 May 2013 15:24

Commit made by **Daniel Zhang (張道博)** on 2013-05-09T18:24:23-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/c8a09bf2fff6dea42d3e03f0c7524ee65db2de5b>

| recursive insert works: #MSG-82 fixed

MSG-83 — Add command line option for file name to insert data script

Comments

Daniel Zhang (張道博)
08 May 2013 18:36

Commit made by **Daniel Zhang (張道博)** on 2013-05-08T21:36:44-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/3887407e5adbff61af58bf3713646fbd164400fe>

| changing insert script to process a single item given by the file path argument: #MSG-83 in progress

Daniel Zhang (張道博)
09 May 2013 15:23

Commit made by **Daniel Zhang (張道博)** on 2013-05-09T18:23:48-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/be703f0fc1365513476e2a4e07057b8f0ef71a66>

| command line option works: #MSG-83 fixed

MSG-84 — add xml file pre-checking to recursive insert script

Comments

Daniel Zhang (張道博) The intention is to not process files that may not contain valid data.
10 May 2013 15:03

Daniel Zhang (張道博) The script has support for filtering the log files. No further filtering will be performed at this time.
13 May 2013 14:33

MSG-85 — update config file documentation in the readme to the latest version

Comments

Daniel Zhang (張道博) Commit made by **Daniel Zhang (張道博)** on 2013-05-13T17:55:38-07:00
13 May 2013 14:55 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/f85bc8a82cce5d690a21cf55f2bee0c7653c9d75>

| updating documentation for configuration file: #MSG-85 fixed

MSG-86 — Skip log files during recursive insert

Log files are denoted as *.log.xml.

Comments

Daniel Zhang (張道博) Commit made by **Daniel Zhang (張道博)** on 2013-05-10T04:18:45-07:00
10 May 2013 01:18 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/5d2ce24cf14a2db047e1f5b63215d529ada004b8>

| skipping log files during recursive insert: #MSG-86 fixed

MSG-87 — Test recursive insert script on XML data containing event data

Comments

Daniel Zhang (張道博) The test completed successfully.
10 May 2013 16:50

```
time python ~/dzmbp-maui-smart-
grid/src/recursiveInsertData.py > insert-log.txt
Inserting data to database meco_v3.
```

```
parsing xml in ./20130415-77fdd50d-4768-44fb-b8e1-50d8eafaa114-2-1.xml.gz
{0}[0](6874){0}[1](10309){0}[2](17183){0}[3](20619){0}[4](27492){0}[5](30927){0}[6](37823)
{0}[7](44697){0}[8](48133)Inserting data to database meco_v3.
```

```
parsing xml in ./20130415-77fdd50d-4768-44fb-b8e1-50d8eafaa114-1-1.xml.gz
{0}[0](6878){0}[1](10313){0}[2](20739){0}[3](24174){0}[4](27609){0}[5](31044){0}[6](34479)
{0}[7](37915){0}[8](44788)
real 2m52.829s
user 0m43.047s
sys 0m6.808s
```

MSG-88 — reduce complexity in walkTheTreeFromRoot

Comments

Daniel Zhang (張道博)
05 Jun 2013 16:09

Commit made by **Daniel Zhang (張道博)** on 2013-06-05T19:09:43-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/c317a6a96c959499022f81f49dd35eed80cc9b2c>

| determine table name per element: #MSG-88 in progress

Daniel Zhang (張道博)
05 Jun 2013 17:35

Commit made by **Daniel Zhang (張道博)** on 2013-06-05T20:34:52-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/9f42ab58ebac2581d4d085c67bee25ba432666d4>

| extracted insert data processing: #MSG-88 in progress

Daniel Zhang (張道博)
21 Jun 2013 13:48

walkTheTreeFromRoot has been reworked to be more clearly expressed.

MSG-89 — fix cursor error in recursive insert

Receiving 'psycopg2.InterfaceError: cursor already closed' on 'row = cur.fetchone()'.

Comments

Daniel Zhang (張道博)
10 May 2013 14:59

The error have been caused by an interruption of the network connection.

MSG-90 — fix insert execution exception

insertScript = /home/daniel/dzmbp-maui-smart-grid/src/insertData.py
./20130415-77fdd50d-4768-44fb-b8e1-50d8eafaa114-2-1.xml.gz

Traceback (most recent call last):

File "/home/daniel/dzmbp-maui-smart-grid/src/recursivelyInsertData.py", line 66, in <module>
call([insertScript, "-filepath", fullPath])

File "/usr/lib/python2.7/subprocess.py", line 493, in call
return Popen(*popenargs, **kwargs).wait()

File "/usr/lib/python2.7/subprocess.py", line 679, in __init__
errread, errwrite)

File "/usr/lib/python2.7/subprocess.py", line 1249, in _execute_child
raise child_exception

OSError: [Errno 13] Permission denied

Comments

Daniel Zhang (張道博)
10 May 2013 16:37

The permissions problem cleared up when switching to Macfusion vs SFTP.

MSG-91 — perform data insert test with two folders of data

Comments

Daniel Zhang (張道博)
13 May 2013 15:38

Results of old data + isolated event data:

Inserting data to database meco_v3.

parsing xml in ./MSGdataJan29-2-1.xml.gz

```
{0}[0](14806){0}[1](29556){0}[2](44306){0}[3](59034){0}[4](73762){0}[5](88490){0}[6](103218){0}[7](117946){0}[8](132674)
Inserting data to database meco_v3.
```

```
parsing xml in ./MSGeventsJan30-1-1.xml.gz
```

```
Inserting data to database meco_v3.
```

```
parsing xml in ./MSGeventsJan30-2-1.xml.gz
```

```
Inserting data to database meco_v3.
```

```
parsing xml in ./MSGdataJan29-1-1.xml.gz
{0}[0](14839){0}[1](29589){0}[2](44350){0}[3](59078){0}[4](73817){0}[5](88545){0}[6](103273){0}[7](118001){0}[8](132729)
real 8m2.043s
user 2m11.028s
sys 0m18.809s
```

Daniel Zhang (張道博)
13 May 2013 16:22

Two folder test was successful:

```
Inserting data to database meco_v3.
```

```
parsing xml in ./2013_02_04_DataDownloaded_wCurtis/MSGdataDec30-2-1.xml.gz
{0}[0](14739){0}[1](29512){0}[2](44240){0}[3](58968){0}[4](73697){0}[5](88425){0}[6](103153){0}[7](117881){0}[8](132614)
Inserting data to database meco_v3.
```

```
parsing xml in ./2013_02_04_DataDownloaded_wCurtis/MSGdataDec30-1-1.xml.gz
{dupe on insert
  }{3776}{0}(19449){0}[1](34177){0}[2](48905){0}[3](63638){0}[4](78368){0}[5](93103){0}[6](107832){0}[7](122565){dupe on insert
>}{29632}[8](174362)
Inserting data to database meco_v3.
```

```
parsing xml in ./2013_04_08_download/20130408-f02e1048-f11e-4004-a90e-2f1e1a05fbfe-1-1.xml.gz
{0}[0](137770)
Inserting data to database meco_v3.
```

```
parsing xml in ./2013_04_08_download/20130408-f02e1048-f11e-4004-a90e-2f1e1a05fbfe-2-1.xml.gz
{0}[0](123946){0}[1](131074){0}[2](134552)
real 18m5.586s
user 4m34.625s
sys 0m40.019s
```

MSG-92 — pass mecodbconnect object instead of raw conn to mecodbinsert

The following definition can be changed:

```
def insertData(self, conn, tableName, columnsAndValues, fKeyVal = None,
              withoutCommit = 0):
```

MSG-93 — add destructors to db connecting classes

Comments

Daniel Zhang (張道博)
20 May 2013 16:14

Commit made by **Daniel Zhang (張道博)** on 2013-05-20T19:14:14-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/12bc4eae1ffc0339819c0567438e8a05f512e9a6>

| adding destructor for db closing: #MSG-93 fixed

MSG-100 — be able to send an email message

Comments

Daniel Zhang (張道博)
14 May 2013 16:12

Commit made by **Daniel Zhang (張道博)** on 2013-05-14T19:12:04-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/3646d81ff6f6fa71b112ea9f3913f30007407da9>

| email sending works: #MSG-100 fixed

MSG-101 — add notifications for testing suite**MSG-102** — update config file documentation with notification parameters

Comments

Daniel Zhang (張道博)
30 May 2013 13:32

Commit made by **Daniel Zhang (張道博)** on 2013-05-30T16:32:03-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/61e1b48a1c59ca3602ae16ae22c66cb334b871d9>

| updating documentation to include notification variables and plot path: #MSG-102 fixed

MSG-103 — Support export of data to cloud storage**MSG-104** — add email notification option to recursive insert

Comments

Daniel Zhang (張道博)
15 May 2013 14:39

Commit made by **Daniel Zhang (張道博)** on 2013-05-15T17:39:23-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/9f0a5be70187def145d7476157bbd72089447c35>

| adding email notification: #MSG-104 in progress

Daniel Zhang (張道博)
15 May 2013 15:13

Commit made by **Daniel Zhang (張道博)** on 2013-05-15T18:13:25-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/bc2e43f5b2ef5f17026b0a1fb5a44d0a25aa06dd>

email on data loading works: #MSG-57 fixed
 #MSG-107 fixed
 #MSG-104 fixed
 #MSG-106 fixed

MSG-106 — perform test run of data loading notification

Comments

Daniel Zhang (張道博)
 15 May 2013 15:13

Commit made by **Daniel Zhang (張道博)** on 2013-05-15T18:13:25-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/bc2e43f5b2ef5f17026b0a1fb5a44d0a25aa06dd>

email on data loading works: #MSG-57 fixed
 #MSG-107 fixed
 #MSG-104 fixed
 #MSG-106 fixed

MSG-107 — add db name to notification body

Comments

Daniel Zhang (張道博)
 15 May 2013 15:13

Commit made by **Daniel Zhang (張道博)** on 2013-05-15T18:13:25-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/bc2e43f5b2ef5f17026b0a1fb5a44d0a25aa06dd>

email on data loading works: #MSG-57 fixed
 #MSG-107 fixed
 #MSG-104 fixed
 #MSG-106 fixed

MSG-108 — add run time profiling to data loading notifications

Comments

Daniel Zhang (張道博)
 30 May 2013 16:14

Commit made by **Daniel Zhang (張道博)** on 2013-05-30T19:14:36-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/155b085c4fcedb539ff0d4ca37705f90998f1a1c>

added wall time measure to recursive insert: #MSG-108 fixed

MSG-109 — load energy data to production meco_v3

Comments

Daniel Zhang (張道博)
 24 May 2013 13:45

Commit made by **Daniel Zhang (張道博)** on 2013-05-24T16:45:28-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/6efd622fd3aedc485331a14ef0dfc6e1265c6593>

data is loaded: #MSG-109 fixed

Uploading diagram of result counts.

MSG-110 — require explicit flag to send email on insert

Comments

Daniel Zhang (張道博)
15 May 2013 15:36

Commit made by **Daniel Zhang (張道博)** on 2013-05-15T18:35:53-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/9cc4e425ac6f32b68f57a828f52f2f9e7c7cf35b>

adding explicit argument for email notification: #MSG-110 fixed

MSG-111 — add explicit testing argument to recursive insert

Comments

Daniel Zhang (張道博)
16 May 2013 16:32

Commit made by **Daniel Zhang (張道博)** on 2013-05-16T19:32:43-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/2d8bc25f7d4c47e3128655606b79ae2ce0357f63>

adding additional testing argument: #MSG-111 in progress

Multiple switch arguments are not currently working as the second argument is being consumed incorrectly.

Daniel Zhang (張道博)
16 May 2013 17:20

Commit made by **Daniel Zhang (張道博)** on 2013-05-16T20:20:46-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/305b826870ad151e43ca11d4b66cdff6e0f58a10>

multiple switch arguments are now working: #MSG-111 fixed

MSG-112 — perform 14MB data loading test on test_meco

Comments

Daniel Zhang (張道博)
17 May 2013 15:20

Running with

```
$ time python -u ~/dzmbp-maui-smart-grid/src/recursiveInsertData.py --email --testing
> insert-log.txt
```

Daniel Zhang (張道博)
17 May 2013 15:52

Data loading was successful.

Testing mode is ON.
Email will be sent.

Inserting data to database test_meco.

parsing xml in ./October2012/20121107-bc289ebc-f666-4384-a6ee-1baff0657a40-2-2.xml.gz

{0}[0](15071){dupe on insert==>}{11520}[1](44225){0}[2](58970){0}[3](73714){0}[4](84055)
Inserting data to database test_meco.

parsing xml in ./October2012/20121107-bc289ebc-f666-4384-a6ee-1baff0657a40-1-2.xml.gz
{0}[0](14735){dupe on insert==>}{68096}[1](114599){0}[2](129332){0}[3](144397){0}[4](159130){0}[5](163317){0}[6](167487){0}[7](181889){dupe on insert==>}{11520}[8](211024)
Inserting data to database test_meco.

parsing xml in ./October2012/20121107-bc289ebc-f666-4384-a6ee-1baff0657a40-1-1.xml.gz
{dupe on insert==>}{11520}[0](29155){0}[1](43893){0}[2](58626){0}[3](73359){0}[4](88103)
{0}[5](102842){0}[6](117589){0}[7](132327){0}[8](147073)
Inserting data to database test_meco.

parsing xml in ./October2012/20121107-bc289ebc-f666-4384-a6ee-1baff0657a40-2-1.xml.gz
{0}[0](14735){0}[1](29479){0}[2](44223){0}[3](58956){0}[4](73690){0}[5](88439){0}[6](103172){dupe on insert==>}{11520}[7](132305){0}[8](147039)
Inserting data to database test_meco.

parsing xml in ./2013_02_11_download/20130211-27af62d3-5d28-42db-a4a6-1ca4d2b1fb0b-1-1.xml.gz
{0}[0](6874){0}[1](17334){0}[2](20769){0}[3](24204){0}[4](31333){0}[5](34763){0}[6](38198)
{dupe on insert==>}{1856}[7](50832){0}[8](54267)
Inserting data to database test_meco.

parsing xml in ./2013_02_11_download/20130211-27af62d3-5d28-42db-a4a6-1ca4d2b1fb0b-2-1.xml.gz
{0}[0](10329){0}[1](20691){0}[2](24126){0}[3](27561){0}[4](37912){0}[5](41342){0}[6](48211)
{0}[7](51646){0}[8](61963)
Inserting data to database test_meco.

parsing xml in ./2013_03_18_download/20130318-7b10eca6-c250-4e1d-9ed3-e19a4477254b-2-1.xml.gz
{0}[0](6887){0}[1](10322){0}[2](13757){0}[3](17192){0}[4](20627){0}[5](24063){0}[6](27498)
{0}[7](30934){dupe on insert==>}{1408}[8](56796)
Inserting data to database test_meco.

parsing xml in ./2013_03_18_download/20130318-7b10eca6-c250-4e1d-9ed3-e19a4477254b-1-1.xml.gz
{0}[0](3436){0}[1](6871){0}[2](17237){0}[3](20672){0}[4](27549){0}[5](30984){0}[6](37856){0}[7](44762){0}[8](48197)
Inserting data to database test_meco.

parsing xml in ./2013_04_15_download/20130415-77fdd50d-4768-44fb-b8e1-50d8eafaa114-2-1.xml.gz

```
{0}[0](6874){0}[1](10309){0}[2](17183){0}[3](20619){0}[4](27492){0}[5](30927){0}[6](37823)
{0}[7](44697){0}[8](48133)
Inserting data to database test_meco.
```

```
parsing xml in ./2013_04_15_download/20130415-77fdd50d-4768-44fb-b8e1-
50d8eafaa114-1-1.xml.gz
{0}[0](6878){0}[1](10313){0}[2](20739){0}[3](24174){0}[4](27609){0}[5](31044){0}[6](34479)
{0}[7](37915){0}[8](44788)Sending email notifications.
```

```
real 27m23.419s
user 6m48.402s
sys 1m3.248s
```

MSG-113 — add linefeed after concise status output of data insert

Comments

Daniel Zhang (張道博)
17 May 2013 16:16

Commit made by **Daniel Zhang (張道博)** on 2013-05-17T19:16:23-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/c66c98d16fa59fb7d1781a76c55b618fb6fdeb0e>

| adjusting notification message: #MSG-113 fixed

MSG-114 — prepare full v3 data set for loading

Separate data by months.

MSG-115 — verify reading counts

Comments

Daniel Zhang (張道博)
20 May 2013 13:43

Loading 2013_04_01_download, 2013_04_08_download, 2013_04_15_download to test_meco.

Daniel Zhang (張道博)
20 May 2013 14:10

Insert result:

```
src/recursiveInsertData.py -testing > insert-log.txt
Testing mode is ON.
```

Inserting data to database test_meco.

```
parsing xml in ./2013_04_01_download/20130401-a589a5b7-bdee-4a5e-8c39-
21324efa37c0-2-1.xml.gz
{0}[0](6874){0}[1](10309){0}[2](13744){0}[3](17184){0}[4](27504){0}[5](30939){0}[6](37839)
{0}[7](48154){0}[8](51589)
Inserting data to database test_meco.
```

```
parsing xml in ./2013_04_01_download/20130401-a589a5b7-bdee-4a5e-8c39-
21324efa37c0-1-1.xml.gz
{0}[0](6876){0}[1](17196){0}[2](20631){0}[3](27503){0}[4](30939){0}[5](34375){0}[6](37810)
{0}[7](48122){0}[8](51557)
```

Inserting data to database test_meco.

```
parsing xml in ./2013_04_08_download/20130408-f02e1048-f11e-4004-a90e-
2f1e1a05fbfe-1-1.xml.gz
{0}[0](137770)
```

Inserting data to database test_meco.

```
parsing xml in ./2013_04_08_download/20130408-f02e1048-f11e-4004-a90e-
2f1e1a05fbfe-2-1.xml.gz
{0}[0](123946){0}[1](131074){0}[2](134552)
```

Inserting data to database test_meco.

```
parsing xml in ./2013_04_15_download/20130415-77fdd50d-4768-44fb-b8e1-
50d8eafaa114-2-1.xml.gz
{0}[0](6874){0}[1](10309){0}[2](17183){0}[3](20619){0}[4](27492){0}[5](30927){0}[6](37823)
{0}[7](44697){0}[8](48133)
```

Inserting data to database test_meco.

```
parsing xml in ./2013_04_15_download/20130415-77fdd50d-4768-44fb-b8e1-
50d8eafaa114-1-1.xml.gz
{0}[0](6878){0}[1](10313){0}[2](20739){0}[3](24174){0}[4](27609){0}[5](31044){0}[6](34479)
{0}[7](37915){0}[8](44788)
```

real 14m40.411s

user 3m24.729s

sys 0m33.342s

Daniel Zhang (張道博)

20 May 2013 15:32

Counts are calculated by the the view countOfReadingsByDay. A discontinuity of 15-minutes or 1 interval seems to appear at the beginning of each data set. Reading counts appear to be as expected, 96/day, at other times. The meter counts are not as expected. The latest MeterRecords indicate 92 meters.

MSG-116 — verify local daily backup is present

MSG-117 — eliminate any db connecting class other than MSGDBConnector

Comments

Daniel Zhang (張道博)

30 Jul 2013 14:50

DB Util uses cursors for DB connections.

Daniel Zhang (張道博)

05 Aug 2013 14:08

DB connection method has been stable and sufficient.

MSG-118 — re-verify reading counts

The following check is evaluating to true unexpectedly:

```
self.configer.configOptionValue("Debugging", "limit_commits")
```

Load counts should be re-checked with this check removed.

Comments

Daniel Zhang (張道博)

20 May 2013 17:25

Load results:

Inserting data to database test_meco.

parsing xml in ./2013_04_01_download/20130401-a589a5b7-bdee-4a5e-8c39-21324efa37c0-2-1.xml.gz

```
{0}[0](6874){0}[1](10309){0}[2](13744){0}[3](17184){0}[4](27504){0}[5](30939){0}[6](37839)
{0}[7](48154){0}[8](51589){0}[9](72229){0}[10](75664){0}[11](79099){0}[12](82534){0}[13]
(85969){0}[14](89405){0}[15](96280){0}[16](103170){0}[17](106753){0}[18](110188){0}[19]
(113623){0}[20](117058){0}[21](120494){0}[22](124208){0}[23](127685)*commit*
```

Closing the DB connection to test_meco.

Inserting data to database test_meco.

parsing xml in ./2013_04_01_download/20130401-a589a5b7-bdee-4a5e-8c39-21324efa37c0-1-1.xml.gz

```
{0}[0](6876){0}[1](17196){0}[2](20631){0}[3](27503){0}[4](30939){0}[5](34375){0}[6](37810)
{0}[7](48122){0}[8](51557){0}[9](54992){0}[10](61867){0}[11](72306){0}[12](75741){0}[13]
(79176){0}[14](82612){0}[15](86047){0}[16](92920){0}[17](99792){0}[18](103227){0}[19]
(106741){0}[20](110177){0}[21](117053){0}[22](120488){0}[23](123924){0}[24](127359){0}
[25](130794){0}[26](134662)*commit*
```

Closing the DB connection to test_meco.

Inserting data to database test_meco.

parsing xml in ./2013_04_08_download/20130408-f02e1048-f11e-4004-a90e-2f1e1a05fbfe-1-1.xml.gz

```
{0}[0](137770)*commit*
```

Closing the DB connection to test_meco.

Inserting data to database test_meco.

parsing xml in ./2013_04_08_download/20130408-f02e1048-f11e-4004-a90e-2f1e1a05fbfe-2-1.xml.gz

```
{0}[0](123946){0}[1](131074){0}[2](134552)*commit*
```

Closing the DB connection to test_meco.

Inserting data to database test_meco.

parsing xml in ./2013_04_15_download/20130415-77fdd50d-4768-44fb-b8e1-50d8eafaa114-2-1.xml.gz

```
{0}[0](6874){0}[1](10309){0}[2](17183){0}[3](20619){0}[4](27492){0}[5](30927){0}[6](37823)
{0}[7](44697){0}[8](48133){0}[9](72207){0}[10](75643){0}[11](79078){0}[12](82514){0}[13]
(85950){0}[14](89385){0}[15](96508){0}[16](103381){0}[17](106895){0}[18](110330){0}[19]
(113765){0}[20](117200){0}[21](120636){0}[22](124065){0}[23](127500){0}[24](130935){0}
```

[25](134726){0}[26](138203)*commit*
Closing the DB connection to test_meco.

Inserting data to database test_meco.

parsing xml in ./2013_04_15_download/20130415-77fdd50d-4768-44fb-b8e1-50d8eafaa114-1-1.xml.gz
{0}[0](6878){0}[1](10313){0}[2](20739){0}[3](24174){0}[4](27609){0}[5](31044){0}[6](34479)
{0}[7](37915){0}[8](44788){0}[9](48223){0}[10](51659){0}[11](55094){0}[12](58529){0}[13]
(61964){0}[14](72407){0}[15](75842){0}[16](79278){0}[17](82713){0}[18](86148){0}[19]
(93021){0}[20](99895){0}[21](103330){0}[22](106845){0}[23](110280){0}[24](117154){0}[25]
(120590){0}[26](134333){0}[27](137768){0}[28](145125)*commit*
Closing the DB connection to test_meco.

real 25m39.509s
user 5m51.750s
sys 0m54.251s

Daniel Zhang (張道博)
20 May 2013 17:28

Commit made by **Daniel Zhang (張道博)** on 2013-05-20T20:28:23-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/52e776bd8ef48503672f99e9b10687e32d96ab8e>

removing incorrect flag: #MSG-118 fixed

MSG-119 — determine correct usage of configOptionValue

Daniel Zhang (張道博)
21 May 2013 14:56

Commit made by **Daniel Zhang (張道博)** on 2013-05-21T17:55:53-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/363ca88371b2a54e52bf271eb2cf58a21f3d2829>

evaluating boolean config values: #MSG-119 fixed

MSG-120 — update structure for meco_v2

Daniel Zhang (張道博)
21 May 2013 15:42

Commit made by **Daniel Zhang (張道博)** on 2013-05-21T18:41:52-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/59eff552d1d647bd7c3f90b0ae51a94aed27050f>

added count of readings and meters views; updated view_readings: #MSG-120 fixed

MSG-121 — process files in ascending order during recursive loading

Daniel Zhang (張道博)
07 Aug 2013 16:03

Not needed at this time.

MSG-123 — remove time portion in readings-meters counts

Comments

Daniel Zhang (張道博)
22 May 2013 16:23

Commit made by **Daniel Zhang (張道博)** on 2013-05-22T19:23:10-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/6e8a153e05894d21956345155417f4c391cd9d77>

| formatting date as text to remove time: #MSG-123 fixed

MSG-124 — create reading-meter count graph script

Comments

Daniel Zhang (張道博)
23 May 2013 01:28

Commit made by **Daniel Zhang (張道博)** on 2013-05-23T04:27:12-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/9367db1a34f02db06f1e38843a6322b98b680a6c>

| created meter and reading count plot: #MSG-124 fixed

MSG-125 — add concise logs to notification messages

Concise logs should be of the form:

Inserting data to database meco_v3.

```
parsing xml in ./2013_03_18_download/20130318-7b10eca6-c250-4e1d-9ed3-e19a4477254b-1-1.xml.gz
{0}[0](3436){0}[1](6871){0}[2](17237){0}[3](20672){0}[4](27549){0}[5](30984){0}[6](37856){0}[7](44762){0}[8](48197){0}[9]
(51632){0}[10](55068){0}[11](61942){0}[12](69266){0}[13](72850){0}[14](76285){0}[15](79720){0}[16](83155){0}[17](86590)
{0}[18](90025){0}[19](93461){0}[20](96897){0}[21](100332){0}[22](103767){0}[23](107281){0}[24](110716){0}[25](117595)
{0}[26](121030){0}[27](124465){0}[28](127900){0}[29](131336){0}[30](135028)*commit*
```

Closing the DB connection to meco_v3.

Comments

Daniel Zhang (張道博)
28 May 2013 15:32

Commit made by **Daniel Zhang (張道博)** on 2013-05-28T18:32:26-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/db54af32b5050e3934127029d26c494e96f2f7c7>

| adding return of parse messages: #MSG-125 in progress

Daniel Zhang (張道博)
28 May 2013 15:58

Commit made by **Daniel Zhang (張道博)** on 2013-05-28T18:57:53-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/577a0073c1ce24e335e5daa7a51a5646c80028f6>

| changing insert data code to object method: #MSG-125 in progress

Daniel Zhang (張道博)
28 May 2013 17:17

Commit made by **Daniel Zhang (張道博)** on 2013-05-28T20:16:15-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/025d9d5b05e5c9e4efa8f393de9e1f32c8fb785b>

| disabling execution of script method: #MSG-125 in progress

Daniel Zhang (張道博)
28 May 2013 17:17

Commit made by **Daniel Zhang (張道博)** on 2013-05-28T20:17:33-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/56df95332104ed5babb5f17403caa2f91e1f9b26>

changing recursive insert to object method: #MSG-125 in progress

Daniel Zhang (張道博)
28 May 2013 18:05

Commit made by **Daniel Zhang (張道博)** on 2013-05-28T20:32:21-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/57589f87c2cb866a5b568b5a84378b5759b140a8>

provide logging for case of single commit; added reporting of other commits: #MSG-125 fixed

MSG-126 — Be able to send an email attachment

Daniel Zhang (張道博)
22 May 2013 17:18

Commit made by **Daniel Zhang (張道博)** on 2013-05-22T20:18:00-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/b05144c0fe1b17aac7444934355109561e8c24bf>

attachments work: #MSG-126 fixed

MSG-127 — attach meter reading count plot to loading notification

Daniel Zhang (張道博)
23 May 2013 01:54

Commit made by **Daniel Zhang (張道博)** on 2013-05-23T04:54:41-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/76cd5925099da76b9705c04a1911eb3476c0b6de>

added plot to notification during recursive insert: #MSG-128 fixed
#MSG-127 fixed

MSG-128 — add plotting to recursive insert

Daniel Zhang (張道博)
23 May 2013 01:54

Commit made by **Daniel Zhang (張道博)** on 2013-05-23T04:54:41-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/76cd5925099da76b9705c04a1911eb3476c0b6de>

added plot to notification during recursive insert: #MSG-128 fixed
#MSG-127 fixed

Daniel Zhang (張道博)
23 May 2013 02:44

Commit made by **Daniel Zhang (張道博)** on 2013-05-23T05:44:33-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/42e7d1916f02b95f290f0ea91f55c27048b89af3>

corrected use of attachment: #MSG-128 fixed

MSG-129 — handle plot failure case during loading

If a plot fails to generate during loading the error condition should be handled gracefully.

Comments

Daniel Zhang (張道博)
05 Jun 2013 16:21

Commit made by **Daniel Zhang (張道博)** on 2013-06-05T19:21:01-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/99b173c563006e42bded0ffdaa420126e9d4f295>

generating error on plot failure: #MSG-129 fixed

MSG-130 — Add weather data loading to notifications

Comments

Daniel Zhang (張道博)
06 Jun 2013 16:44

Commit made by **Daniel Zhang (張道博)** on 2013-06-06T19:44:09-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/5ab3297a3cb1d2899d581ce8ffb4eb8e9321de42>

Added notifications to whether data loading: #MSG-130 fixed

MSG-131 — Add static location and meter record loading to notifications

Comments

Daniel Zhang (張道博)
05 Jun 2013 15:55

Commit made by **Daniel Zhang (張道博)** on 2013-06-05T18:55:00-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/e069526be7b0d2ec012c8a051a22dcb33007ce0e>

adding reporting and notifications to static meter record loading and static location record loading: #MSG-131 fixed
#MSG-140 fixed
#MSG-139 fixed

MSG-132 — load static location and meter records**MSG-133** — load weather data

Comments

Daniel Zhang (張道博)
06 Jun 2013 16:28

Loaded:

KahuluiQCLCD_2012_08.csv
KahuluiQCLCD_2012_09.csv
KahuluiQCLCD_2012_10.csv
KahuluiQCLCD_2012_11.csv

MSG-134 — transfer views from v2

Comments

Daniel Zhang (張道博)
24 May 2013 15:22

Commit made by **Daniel Zhang (張道博)** on 2013-05-24T18:22:06-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/71c70fbd816507f305ec7eee3b2859bd1cb5945f>

views transferred from v2 to v3: #MSG-134 fixed

MSG-136 — post reading-meter plot to documentation

Comments

Daniel Zhang (張道博)
24 May 2013 15:23

Plot was added.

<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/07e643361755a533aa446fb2204912a2fd7a2018>

MSG-137 — add parallel notes to documentation

Comments

Daniel Zhang (張道博)
03 Jun 2013 16:54

Commit made by **Daniel Zhang (張道博)** on 2013-06-03T19:54:19-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/7ccbeaca29d3b93e65b1cb5364a515dfb1ba8e1d>

add parallel loading note to docs: #MSG-137 fixed

MSG-138 — add gridlines to count plot

Comments

Daniel Zhang (張道博)
29 May 2013 15:57

Commit made by **Daniel Zhang (張道博)** on 2013-05-29T18:57:43-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/c45d271c89580e6c99361a875b3bcc3e0b1fd33c>

added gridlines: #MSG-138 fixed

MSG-139 — provide concise report for static location record loading

Comments

Daniel Zhang (張道博)
05 Jun 2013 15:55

Commit made by **Daniel Zhang (張道博)** on 2013-06-05T18:55:00-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/e069526be7b0d2ec012c8a051a22dcb33007ce0e>

adding reporting and notifications to static meter record loading and static location record loading: #MSG-131 fixed
#MSG-140 fixed
#MSG-139 fixed

MSG-140 — provide concise report for static meter record loading

Comments

Daniel Zhang (張道博)
05 Jun 2013 14:57

Commit made by **Daniel Zhang (張道博)** on 2013-06-05T17:57:42-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/4216d33543a5451d382fc8b5de676c8269b935be>

adding notifications to static meter record loading: #MSG-140 fixed

Daniel Zhang (張道博)
05 Jun 2013 15:55

Commit made by **Daniel Zhang (張道博)** on 2013-06-05T18:55:00-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/e069526be7b0d2ec012c8a051a22dcb33007ce0e>

adding reporting and notifications to static meter record loading and static location record loading: #MSG-131 fixed
#MSG-140 fixed
#MSG-139 fixed

MSG-141 — add separate testing recipient list to config file and support for it in the notifier

Comments

Daniel Zhang (張道博)
29 May 2013 14:37

The configuration option will be testing_email_recipients.

Daniel Zhang (張道博)
29 May 2013 14:41

Commit made by **Daniel Zhang (張道博)** on 2013-05-29T17:41:07-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/be11dfec29bf5dbf24d8b2327497fb2c93d6db5b>

added support for testing mode to sendMailWithAttachments: #MSG-141 fixed

Daniel Zhang (張道博)
29 May 2013 14:49

Commit made by **Daniel Zhang (張道博)** on 2013-05-29T17:48:03-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/07304b01d646f6929ebf3ac81a79d1f358738bfb>

setting testing support to single part mail sender while removing its deprecated status: #MSG-141 fixed

MSG-142 — have plotting support testing mode

This is a function of the recursive insert script and can be implemented there.

Comments

Daniel Zhang (張道博)
29 May 2013 14:49

Commit made by **Daniel Zhang (張道博)** on 2013-05-29T17:49:10-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/83531e60585482a39e36c200faa4cb022ee42442>

mail with attached plot and other mails now support testing mode: #MSG-142 fixed

MSG-143 — have db destructor message handle testing mode

MSG-144 — provide source data monitoring service

The file system is continuously monitored such that the presence of source data will initiate the loading process.

MSG-145 — test support for testing mode in notifications

Comment

Daniel Zhang (張道博)
30 May 2013 16:05

Commit made by **Daniel Zhang (張道博)** on 2013-05-30T19:04:55-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/83531e60585482a39e36c200faa4cb022ee42442>

[Grid/commit/5ab379da1c6b2376ef91fce85dfe6f67a68a0d3a](https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/5ab379da1c6b2376ef91fce85dfe6f67a68a0d3a)

reverting imports to deal with TypeError: #MSG-145 in progress

TypeError: 'LazyImporter' object is not callable

Daniel Zhang (張道博)
18 Jun 2013 15:57

Logging configuration, including that of providing notice for testing mode, is handled on a class-by-class. Therefore, issues related to logging should address specific classes.

MSG-146 — create script for PV data loading

Daniel Zhang (張道博)
28 Jun 2013 13:06

PV data was added by Eileen.

MSG-147 — fix /src/tests/test____mecoconfig.py

Daniel Zhang (張道博)
31 May 2013 15:33

Commit made by **Daniel Zhang (張道博)** on 2013-05-31T18:32:58-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/693c5c3b5630d69c596c08878ee47fef3ec5600a>

fixed test by correcting use of debugging option: #MSG-147 fixed

MSG-154 — drop duplicates in the event branch on insert

Daniel Zhang (張道博)
28 Jun 2013 15:15

Commit made by **Daniel Zhang (張道博)** on 2013-06-28T18:14:27-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/d525927d3b193e06d328005a05ffe4774fda7c85>

determining event dupes: #MSG-154 In Progress

Daniel Zhang (張道博)
28 Jun 2013 16:14

Commit made by **Daniel Zhang (張道博)** on 2013-06-28T19:14:53-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/ddcc4fc153513e2c44d7a4a442c573e21e5fb332>

added event dupe dropping: #MSG-154 fixed

Needs testing.

Daniel Zhang (張道博)
28 Jun 2013 16:21

Commit made by **Daniel Zhang (張道博)** on 2013-06-28T19:21:49-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/6a890d188d57a4216ec636ac9fb9b142bbe9b4cc>

adding additional needed items for event dupes: #MSG-154 fixed

MSG-155 — drop duplicates in the register branch on insert

Daniel Zhang (張道博)
24 Jun 2013 16:34

Commit made by **Daniel Zhang (張道博)** on 2013-06-24T19:34:27-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/8df87bd63cfd56a10f626b37976d923a62dd4cc8>

detecting duplicates in the register branch: #MSG-155 In Progress

Daniel Zhang (張道博)
25 Jun 2013 15:39

Commit made by **Daniel Zhang (張道博)** on 2013-06-25T18:39:03-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/12ac3fbca2ac3fe8094ffac9d92091de361fea17>

adding register dupe dropping to parser: #MSG-155 In Progress

Daniel Zhang (張道博)
25 Jun 2013 16:48

Commit made by **Daniel Zhang (張道博)** on 2013-06-25T19:48:27-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/71fe9062e92592d6bd8c03cbb786261c5ac7d264>

fixed numerous code problems: #MSG-155 In Progress

Daniel Zhang (張道博)
26 Jun 2013 16:43

Register duplicates are dropped on insert:

```
~/msg-data/unit-test-data$ time python ~/dzmbp-maui-smart-
grid/src/recursivelyInsertData.py -testing > insert-log.txt
2013-06-26 16:38:53,060 - __main__ - INFO - Testing mode is ON.
```

```
2013-06-26 16:38:53,061 - mecoxmlparser - INFO - Testing Mode is ON.
```

Inserting data to database test_meco.

Parsing XML in ./meco_v3-energy-test-data.xml.gz.

```
{re-dupe==>}{rd-dupe==>}{32rd,56re}{0}[125]<0rd,0re,37,37>—{0rd,0re}{0}[125]
<0rd,0re,0,37>*
```

```
2013-06-26 16:38:53,413 - mecoxmlparser - INFO - Data process count = 125.
```

```
2013-06-26 16:38:53,413 - mecoxmlparser - INFO - Reading dupe check count = 32.
```

MSG-157 — fix problem where recursive insert immediately terminates upon finding duplicate data

Daniel Zhang (張道博)
03 Jun 2013 17:03

Tail of the insert log is:

SQL execute was successful.

table name = Interval

column name = interval_id

SQL execute was successful.

SQL execute was successful.

Duplicate meter-endtime-channel exists.

SQL execute was successful.

table name = Reading

column name = reading_id
 SQL execute failed using select
 currval(pg_get_serial_sequence('Reading','reading_id')).
 The error is: currval of sequence "reading_id_seq" is not yet defined in this session

Daniel Zhang (張道博)
 04 Jun 2013 14:02

If a dupe is encountered before a reading_id is generated, as in the first MeterData set, then this error can occur.

Daniel Zhang (張道博)
 04 Jun 2013 15:25

Commit made by **Daniel Zhang (張道博)** on 2013-06-04T18:25:30-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/c84a20ec5c7558d247901f6a22cb3e4f9b858fba>

recursive insert proceeds if readings dupes are immediately encountered: #MSG-157 fixed

MSG-158 — report sql failures through stderr during loading

MSG-159 — create separate plot during testing mode

Comments

Daniel Zhang (張道博)
 12 Jun 2013 14:53

Commit made by **Daniel Zhang (張道博)** on 2013-06-12T17:52:21-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/81f8482b06e692639b7a8508b44577fd86daf40f>

Adding support for testing mode to mecoplotting: #MSG-159 in progress

Daniel Zhang (張道博)
 12 Jun 2013 16:09

Commit made by **Daniel Zhang (張道博)** on 2013-06-12T19:09:45-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/1bf4ff0ba00b4f32d3c03b719fec906656986f71>

pass testing to plotter: #MSG-159 in progress

Daniel Zhang (張道博)
 22 Aug 2013 13:59

Separate plot during testing is generated.

MSG-160 — load month-long data set

Comments

Daniel Zhang (張道博)
 04 Jun 2013 16:28

Results are:

Inserting data to database meco_v3.

Parsing XML in ./All of May-2-1.xml.gz.

```
{dupe on insert==>}*commit*{9968}[0](14735){dupe on insert==>}*commit*{9968}[1]
(29468){dupe on insert==>}*commit*{9968}[2](4
4197){dupe on insert==>}*commit*{9968}[3](58926){dupe on insert==>}*commit*{9968}[4]
(73655){dupe on insert==>}*commit*{9968}
[5](88384){dupe on insert==>}*commit*{9968}[6](103113){dupe on insert==>}*commit*
{9968}[7](117841){dupe on insert==>}*commit
```


- {9968}[8](132570){dupe on insert==>}*commit*{9968}[9](147304){dupe on insert==>}*commit*{9968}[10](162038){dupe on insert==>}*commit*{9968}[11](176772){dupe on insert==>}*commit*{9968}[12](191502){dupe on insert==>}*commit*{9968}[13](206232){dupe on insert==>}*commit*{9968}[14](220960){dupe on insert==>}*commit*{9968}[15](235688){dupe on insert==>}*commit*{9968}[16](250423){dupe on insert==>}*commit*{9968}[17](265152){dupe on insert==>}*commit*{9968}[18](279881){dupe on insert==>}*commit*{9968}[19](294611){dupe on insert==>}*commit*{9968}[20](309345){dupe on insert==>}*commit*{9968}[21](324074){dupe on insert==>}*commit*{9968}[22](338807){dupe on insert==>}*commit*{9968}[23](353541){dupe on insert==>}*commit*{9968}[24](368270){dupe on insert==>}*commit*{9968}[25](383004){dupe on insert==>}*commit*{9968}[26](397732){dupe on insert==>}*commit*{9968}[27](412461){dupe on insert==>}*commit*{9968}[28](427189){dupe on insert==>}*commit*{9968}[29](441918){dupe on insert==>}*commit*{9968}[30](456979){dupe on insert==>}*commit*{9968}[31](471708){dupe on insert==>}*commit*{9968}[32](486436){dupe on insert==>}*commit*{9968}[33](501165){dupe on insert==>}*commit*{9968}[34](515899){dupe on insert==>}*commit*{9968}[35](530627){dupe on insert==>}*commit*{9968}[36](545356){dupe on insert==>}*commit*{9968}[37](560084){dupe on insert==>}*commit*{9968}[38](565765){dupe on insert==>}*commit*{9968}[39](571114){dupe on insert==>}*commit*{9968}[40](576474){dupe on insert==>}*commit*{9968}[41](591389){dupe on insert==>}*commit*{9968}[42](606299)*commit*

Closing the DB connection to meco_v3.

Inserting data to database meco_v3.

Parsing XML in ./All of May-1-1.xml.gz.

```
{dupe on insert==>}*commit*{9968}[0](14730){dupe on insert==>}*commit*{9968}[1](29480){dupe on insert==>}*commit*{9968}[2](44208){dupe on insert==>}*commit*{9968}[3](58936){dupe on insert==>}*commit*{9968}[4](73665){dupe on insert==>}*commit*{9968}[5](88399){dupe on insert==>}*commit*{9968}[6](103128){dupe on insert==>}*commit*{9968}[7](117862){dupe on insert==>}*commit*{9968}[8](132596){dupe on insert==>}*commit*{9968}[9](147325){dupe on insert==>}*commit*{9968}[10](162054){dupe on insert==>}*commit*{9968}[11](176783){dupe on insert==>}*commit*{9968}[12](191512){dupe on insert==>}*commit*{9968}[13](206246){dupe on insert==>}*commit*{9968}[14](220974){dupe on insert==>}*commit*{9968}[15](235703){dupe on insert==>}*commit*{9968}[16](250431){dupe on insert==>}*commit*{9968}[17](265165){dupe on insert==>}*commit*{9968}[18](279894){dupe on insert==>}*commit*{9968}[19](294954){dupe on insert==>}*commit*{9968}[20](309683){dupe on insert==>}*commit*{9968}[21](324417){dupe on insert==>}*commit*{9968}[22](339146){dupe on insert==>}*commit*{9968}[23](353874){dupe on insert==>}*commit*{9968}[24](368602){dupe on insert==>}*commit*{9968}[25](383330){dupe on insert==>}*commit*{9968}[26](398059){dupe on insert==>}*commit*{9968}[27](412787){dupe on insert==>}*commit*{9968}[28](427189){dupe on insert==>}*commit*{9968}[29](441918){dupe on insert==>}*commit*{9968}[30](456979){dupe on insert==>}*commit*{9968}[31](471708){dupe on insert==>}*commit*{9968}[32](486436){dupe on insert==>}*commit*{9968}[33](501165){dupe on insert==>}*commit*{9968}[34](515899){dupe on insert==>}*commit*{9968}[35](530627){dupe on insert==>}*commit*{9968}[36](545356){dupe on insert==>}*commit*{9968}[37](560084){dupe on insert==>}*commit*{9968}[38](565765){dupe on insert==>}*commit*{9968}[39](571114){dupe on insert==>}*commit*{9968}[40](576474){dupe on insert==>}*commit*{9968}[41](591389){dupe on insert==>}*commit*{9968}[42](606299)*commit*
```

```
insert==>}*commit*{9968}[28](427515){dupe on insert==>}*commit*{9968}[29](442585)
{dupe on insert==>}*commit*{9968}[30](457313){dupe on insert==>}*commit*{9968}[31]
(472041){dupe on insert==>}*commit*{9968}[32](486770){dupe on insert==>}*commit*
{9968}[33](501503){dupe on insert==>}*commit*{9968}[34](516232){dupe on
insert==>}*commit*{9968}[35](530960){dupe on insert==>}*commit*{9968}[36](545688)
{dupe on insert==>}*commit*{9968}[37](560417){dupe on insert==>}*commit*{9968}[38]
(575146){dupe on insert==>}*commit*{9968}[39](589875){dupe on insert==>}*commit*
{9968}[40](604604){dupe on insert==>}*commit*{2476}[41](609953){dupe on
insert==>}*commit*{2476}[42](615302){dupe on insert==>}*commit*{2476}[43](620651)
{dupe on insert==>}*commit*{2488}[44](626017){dupe on insert==>}*commit*{2476}[45]
(631366){dupe on insert==>}*commit*{9968}[46](646546)*commit*
Closing the DB connection to meco_v3.
```

Closing the DB connection to meco_v3.
plotPath = /home/daniel/msg-plots
attachment = /home/daniel/msg-plots/ReadingAndMeterCounts.png
Sending multipart email.
Attaching file /home/daniel/msg-plots/ReadingAndMeterCounts.png.
No exceptions occurred.

Closing the DB connection to meco_v3.

```
real  29m33.394s
user   4m53.446s
sys    2m59.439s
```

Daniel Zhang (張道博) 04 Jun 2013 16:58	Results according to plot comparison of v3 vs v4 appear correct but the concise log dupe counts don't appear to be meaningful, being mostly the same value of 9968.
---	--

MSG-161 — create v4 structure

Comments

Daniel Zhang (張道博) 04 Jun 2013 16:25	Commit made by Daniel Zhang (張道博) on 2013-06-04T19:25:03-07:00 https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/c8475ed7953602dbea60b767b322975114888eec adding meco_v4 structure: #MSG-161 fixed
---	--

MSG-162 — insert 2013_06_03_All_of_May_2013 to v4

Comments

Daniel Zhang (張道博) 04 Jun 2013 17:01	Results are: ./All of May-2-1.xml.gz Inserting data to database meco_v4. Parsing XML in ./All of May-2-1.xml.gz.
---	---

```

commit{0}[0](14735)*commit*{0}[1](29468)*commit*{0}[2](44197)*commit*{0}[3]
(58926)*commit*{0}[4](73655)*commit*{0}[5](88384)*commit*{0}[6](103113)*commit*{0}[7]
(117841)*commit*{0}[8](132570)*commit*{0}[9](147304)*commit*{0}[10](162038)*commit*
{0}[11](176772)*commit*{0}[12](191502)*commit*{0}[13](206232)*commit*{0}[14]
(220960)*commit*{0}[15](235688)*commit*{0}[16](250423)*commit*{0}[17]
(265152)*commit*{0}[18](279881)*commit*{0}[19](294611)*commit*{0}[20]
(309345)*commit*{0}[21](324074)*commit*{0}[22](338807)*commit*{0}[23]
(353541)*commit*{0}[24](368270)*commit*{0}[25](383004)*commit*{0}[26]
(397732)*commit*{0}[27](412461)*commit*{0}[28](427189)*commit*{0}[29]
(441918)*commit*{0}[30](456979)*commit*{0}[31](471708)*commit*{0}[32]
(486436)*commit*{0}[33](501165)*commit*{0}[34](515899)*commit*{0}[35]
(530627)*commit*{0}[36](545356)*commit*{0}[37](560084)*commit*{0}[38]
(565765)*commit*{0}[39](571114)*commit*{0}[40](576474)*commit*{0}[41]
(591389)*commit*{0}[42](606299)*commit*

```

Wall time = 805.68 seconds.

./All of May-1-1.xml.gz

Inserting data to database meco_v4.

Parsing XML in ./All of May-1-1.xml.gz.

```

commit{0}[0](14730)*commit*{0}[1](29480)*commit*{0}[2](44208)*commit*{0}[3]
(58936)*commit*{0}[4](73665)*commit*{0}[5](88399)*commit*{0}[6](103128)*commit*{0}[7]
(117862)*commit*{0}[8](132596)*commit*{0}[9](147325)*commit*{0}[10](162054)*commit*
{0}[11](176783)*commit*{0}[12](191512)*commit*{0}[13](206246)*commit*{0}[14]
(220974)*commit*{0}[15](235703)*commit*{0}[16](250431)*commit*{0}[17]
(265165)*commit*{0}[18](279894)*commit*{0}[19](294954)*commit*{0}[20]
(309683)*commit*{0}[21](324417)*commit*{0}[22](339146)*commit*{0}[23]
(353874)*commit*{0}[24](368602)*commit*{0}[25](383330)*commit*{0}[26]
(398059)*commit*{0}[27](412787)*commit*{0}[28](427515)*commit*{0}[29]
(442585)*commit*{0}[30](457313)*commit*{0}[31](472041)*commit*{0}[32]
(486770)*commit*{0}[33](501503)*commit*{0}[34](516232)*commit*{0}[35]
(530960)*commit*{0}[36](545688)*commit*{0}[37](560417)*commit*{0}[38]
(575146)*commit*{0}[39](589875)*commit*{0}[40](604604)*commit*{0}[41]
(609953)*commit*{0}[42](615302)*commit*{0}[43](620651)*commit*{0}[44]
(626017)*commit*{0}[45](631366)*commit*{0}[46](646546)*commit*

```

Wall time = 968.81 seconds.

Processed file count is 2.

MSG-163 — add timestamp to plot

Comments

Daniel Zhang (張道博)
11 Jun 2013 16:37

Commit made by **Daniel Zhang** (張道博) on 2013-06-11T19:37:38-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/82c6c188350317fd2ca176dc9a3efbfd43dc8064>

| added timestamp to plot: #MSG-163 fixed

MSG-165 — add test for static meter record loading

Comments

Daniel Zhang (張道博) No longer loading static meter records.
22 Aug 2013 13:57

MSG-166 — add test for static location record loading

Comments

Daniel Zhang (張道博) No longer loading static location records.
22 Aug 2013 13:58

MSG-167 — eliminate connections to the production DB in testing mode

For reference:

Testing mode is ON.

Email will be sent.

Inserting data to database test_meco.

Parsing XML in ./meco_v3-energy-test-data.xml.gz.

{0}[0](126)*commit*

Closing the DB connection to test_meco.

Closing the DB connection to meco_v4.

plotPath = /home/daniel/msg-plots

attachment = /home/daniel/msg-plots/ReadingAndMeterCounts.png

Sending multipart email.

Notification testing mode is ON.

Attaching file /home/daniel/msg-plots/ReadingAndMeterCounts.png.

No exceptions occurred.

Closing the DB connection to meco_v4.

real 0m5.177s

user 0m0.628s

sys 0m0.132s

Comments

Daniel Zhang (張道博) This is not a problem at this time.
05 Aug 2013 14:10

MSG-168 — add log legend

Comments

Daniel Zhang (張道博) Commit made by **Daniel Zhang (張道博)** on 2013-06-05T20:34:05-07:00

Comments

05 Jun 2013 17:35

<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/42794135586fb83fe3a182de5826d913e00be48c>

added log legend: #MSG-168 fixed

Daniel Zhang (張道博)
10 Jun 2013 13:54

Commit made by **Daniel Zhang (張道博)** on 2013-06-10T16:52:32-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/0833cdb491b22f0c642cd1eb5b087c22fb85e979>

revise legend: #MSG-168 fixed

- MSG-169 — add email and testing command-line arguments to static meter record loading
- MSG-170 — add email and testing command-line arguments to static location record loading

Comments

Daniel Zhang (張道博)
22 Aug 2013 13:59

No longer loading static location records.

- MSG-171 — add email and testing command-line arguments to weather data loading

Comments

Daniel Zhang (張道博)
09 Jul 2013 15:55

These arguments are supported in insertCompressedWeatherData.py.

- MSG-172 — add last date test for weather data loading

Comments

Daniel Zhang (張道博)
30 Jul 2013 15:18

Commit made by **Daniel Zhang (張道博)** on 2013-07-30T18:18:05-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/a9ad32a871c9e869695933118b36c73962ede70d>

adding test stub: #MSG-172 In Progress

Daniel Zhang (張道博)
30 Jul 2013 16:56

Commit made by **Daniel Zhang (張道博)** on 2013-07-30T19:56:25-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/95cd03a2d1737a9abec56d01a8e1c0827be9a3f1>

filling out last date test; renamed db connector: #MSG-172 In Progress

Daniel Zhang (張道博)
31 Jul 2013 14:38

Commit made by **Daniel Zhang (張道博)** on 2013-07-31T17:38:00-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/a540a8bb94b5f1888ec6778d910a9358c6a11626>

added test for last date: #MSG-172 fixed

- MSG-173 — cleanup views

Comments

Daniel Zhang (張道博)

Commit made by **Daniel Zhang (張道博)** on 2013-06-06T19:46:42-07:00

Items

06 Jun 2013 16:46

<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/5a6ab85ef69977a3269de83f2fa6725a6f2770ef>

removed view with camel case name: #MSG-173 fixed

MSG-174 — Update dependencies in the documentation

Comments

Daniel Zhang (張道博)
11 Jun 2013 13:19

Fixed in <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/38420a8dca2e8f99162ee4dda1461238357b49ee>.

MSG-176 — support processing of NOAA weather data

Comments

Daniel Zhang (張道博)
02 Jul 2013 17:13

Commit made by **Daniel Zhang (張道博)** on 2013-07-02T20:13:13-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/13d8d57f8f8346944eef7be0a8c2b992454d19be>

setting up weather data loading: #MSG-176 In Progress
#MSG-178 In Progress
#MSG-222 In Progress

Daniel Zhang (張道博)
03 Jul 2013 17:27

Commit made by **Daniel Zhang (張道博)** on 2013-07-03T20:26:56-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/82231b6c03b516801d36703ed5ea9708de5820e5>

setting up weather data loading: #MSG-176 In Progress
#MSG-178 In Progress
#MSG-222 In Progress

Daniel Zhang (張道博)
03 Jul 2013 17:47

Weather data insertion is enabled by insertCompressedWeatherData.py.

MSG-177 — support weather data plot notification

MSG-178 — provide class for duplicate checking during weather data loading

Comments

Daniel Zhang (張道博)
02 Jul 2013 17:13

Commit made by **Daniel Zhang (張道博)** on 2013-07-02T20:13:13-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/13d8d57f8f8346944eef7be0a8c2b992454d19be>

setting up weather data loading: #MSG-176 In Progress
#MSG-178 In Progress
#MSG-222 In Progress

Daniel Zhang (張道博)
03 Jul 2013 17:27

Commit made by **Daniel Zhang (張道博)** on 2013-07-03T20:26:56-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/82231b6c03b516801d36703ed5ea9708de5820e5>

setting up weather data loading: #MSG-176 In Progress
#MSG-178 In Progress
#MSG-222 In Progress

Daniel Zhang (張道博)
03 Jul 2013 17:45

Support is provided by MSGWeatherDataDupeChecker.

MSG-179 — Add database name to plot

Comments

Daniel Zhang (張道博)
11 Jun 2013 17:05

Commit made by **Daniel Zhang (張道博)** on 2013-06-11T20:05:32-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/23c73187a02035fadd8b40ac8b0fe609343bcd44>

added db name to plots: #MSG-179 fixed

Daniel Zhang (張道博)
12 Jun 2013 13:23

Commit made by **Daniel Zhang (張道博)** on 2013-06-12T16:23:25-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/fa6c7c152bfa544ec8b78f223882c8f4ecf86157>

fixed argument count: #MSG-179 fixed

Daniel Zhang (張道博)
12 Jun 2013 15:51

Commit made by **Daniel Zhang (張道博)** on 2013-06-12T18:51:18-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/93054ceb50e7f1e240a2be991a3bb2e7d0e5dd41>

adding dbname to plot: #MSG-179 fixed

MSG-181 — Create test data set with a missing interval

Comments

Daniel Zhang (張道博)
12 Jun 2013 14:53

Commit made by **Daniel Zhang (張道博)** on 2013-06-12T17:53:28-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/2961371e1d300bd441def814566ccddb1e111851>

created test data set with missing interval: #MSG-181 fixed

MSG-183 — fix email setting during testing for recursive insert

Email is getting sent without the email option.

Comments

Daniel Zhang (張道博)
12 Jun 2013 14:33

Commit made by **Daniel Zhang (張道博)** on 2013-06-12T17:33:35-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/d7757880a1c8a04a7318e9075d7ecaace609b3d0>

added email check to fail case: #MSG-183 fixed

MSG-184 — fix display of 'using database' on recursive insert using --testing

Display is incorrect:

Using database meco_v4.

Testing mode is ON.

Recursively inserting data to the database named test_meco.

...

Found XML files that are not gzip compressed.

Unable to proceed.

Sending email notifications.

Closing the DB connection to meco_v4.

real 0m2.729s

user 0m0.272s

sys 0m0.032s

Comments

Daniel Zhang (張道博)

Not a problem at this time.

22 Aug 2013 13:54

MSG-185 — be able to generate plots from the command-line using mecoplotting

Comments

Daniel Zhang (張道博)

Not needed at this time.

24 Sep 2013 16:22

MSG-186 — support db name adding to plot when running mecoplotting as script

Comments

Daniel Zhang (張道博)

Support is provided for in [#MSG-179](#).

12 Jun 2013 15:51

MSG-188 — reduce quantity of db connections

Example:

recursivelyInsertData.py --testing > insert-log.txt Using database meco_v4.

Opened DB connection to meco_v4.

Using database meco_v4.

Opened DB connection to meco_v4.

Opened DB connection to meco_v4.

Closing the DB connection to meco_v4.

Using database meco_v4.

Opened DB connection to meco_v4.

Opened DB connection to meco_v4.

Testing mode is ON.

Testing Mode is ON.

Testing Mode is ON.

Using database test_meco.

Opened DB connection to test_meco.

Opened DB connection to test_meco.

Inserting data to database test_meco.

Parsing XML in ./meco_v3-energy-test-data_with_missing_interval.xml.gz.

{dupe on insert==>}{28}{0}[121]*

Closing the DB connection to test_meco.

Using database meco_v4.

Opened DB connection to meco_v4.

Testing Mode is ON.

Using database test_meco.

Opened DB connection to test_meco.

Opened DB connection to test_meco.

Closing the DB connection to test_meco.

Closing the DB connection to meco_v4.

Closing the DB connection to meco_v4.

Closing the DB connection to meco_v4.

real 0m9.645s

user 0m1.532s

sys 0m0.100s

Comments

Daniel Zhang (張道博)
14 Jun 2013 14:49

Commit made by **Daniel Zhang (張道博)** on 2013-06-14T17:49:14-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/e578ed0b7010f2619ebf0f8af5aa1887d74e2eec>

| migrating to logging module: #MSG-188 In Progress

Daniel Zhang (張道博)
18 Jun 2013 15:54

Less DB connections are now reported. Individual classes establish their own connections and should be addressed individually.

MSG-189 — adapt mecollogger to logging

Comments

Daniel Zhang (張道博)
14 Jun 2013 13:36

Commit made by **Daniel Zhang (張道博)** on 2013-06-14T16:33:38-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/74bb59e1d9534ed4085f26070d10d4d9ee546417>

| adding logger to mecollogging: #MSG-189 in progress

Daniel Zhang (張道博)
14 Jun 2013 14:49

Commit made by **Daniel Zhang (張道博)** on 2013-06-14T17:48:28-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/cc9d336c108eab97a450e3a3f8d8a109134fd03f>

| added explicit flush but it may not be necessary: #MSG-189 In Progress

Daniel Zhang (張道博)
14 Jun 2013 15:01

Commit made by **Daniel Zhang (張道博)** on 2013-06-14T18:00:53-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/46f87e4e04fff8258d2b11d977a13d9d60a02f15>

| changing logging idiom to self reported class name: #MSG-189 In Progress

Daniel Zhang (張道博)
14 Jun 2013 15:53

Commit made by **Daniel Zhang (張道博)** on 2013-06-14T18:53:02-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/ab20eb9dfa88dba52f962d8ce3cb3796b4c129ba>

| adding multiple switches to logging: #MSG-189 In Progress

| Logging level can be set per item. It is also set by class and it defaults to Silent.

Daniel Zhang (張道博)
18 Jun 2013 15:52

MECOLogger is in place and available throughout the project using the logging module. Individual classes should be migrated to MECOLogger for their logging needs.

MSG-191 — create db dump script

Comments

Daniel Zhang (張道博)
07 Aug 2013 16:28

Commit made by **Daniel Zhang (張道博)** on 2013-08-07T19:28:30-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/883f86d1d00721fbaca16c73b87c6e85963549a9>

adding db dump script: #MSG-191 fixed

MSG-192 — regenerate meco_v4 to clean up views

Comments
Daniel Zhang (張道博) This is for meco_v4.
07 Aug 2013 16:05

MSG-193 — report count of readings inserted before the last reading

Need last end_time and last MeterData creation time.

Comments
Daniel Zhang (張道博) #MSG-208 may be sufficient.
20 Jun 2013 15:37

MSG-194 — view for energy and voltages for houses without pv

Comments
Daniel Zhang (張道博) Commit made by **Daniel Zhang** (張道博) on 2013-06-15T04:57:43-07:00
15 Jun 2013 01:57 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/8257179e38821f77cf433f454fa88ffcb01a9e6b>

added view for energy and voltages for houses without pv: #MSG-194 fixed

Daniel Zhang (張道博)
15 Jun 2013 01:59

```
GroupAggregate (cost=256592.58..257706.53 rows=26940 width=46)
-> Sort (cost=256592.58..256677.03 rows=33782 width=46) (a
    Sort Key: "Interval".end_time
    Sort Method: external merge  Disk: 166688kB
-> Hash Join (cost=9431.69..253012.00 rows=33782 width=46)
    Hash Cond: ("Reading".interval_id = "Interval".interval_id)
-> Seq Scan on "Reading" (cost=0.00..193374.57 rows=33782 width=46)
    Filter: ((channel = 1::smallint) OR (channel = 2::smallint))
-> Hash (cost=8802.15..8802.15 rows=29563 width=46)
    Buckets: 2048  Batches: 256 (originally 4096)
-> Nested Loop (cost=53.25..8802.15 rows=29563 width=46)
-> Hash Join (cost=53.25..102.33 rows=29563 width=46)
    Hash Cond: ("IntervalReadData".interval_id = "Interval".interval_id)
-> Seq Scan on "IntervalReadData" (cost=0.00..193374.57 rows=33782 width=46)
-> Hash (cost=52.96..52.96 rows=29563 width=46)
    Buckets: 1024  Batches: 128
-> Nested Loop (cost=53.25..8802.15 rows=29563 width=46)
-> Hash Anti Join (cost=53.25..102.33 rows=29563 width=46)
    Hash Cond: ("IntervalReadData".interval_id = "Interval".interval_id)
-> Seq Scan on "IntervalReadData" (cost=0.00..193374.57 rows=33782 width=46)
-> Hash (cost=52.96..52.96 rows=29563 width=46)
    Buckets: 1024  Batches: 128
-> Seq Scan on "IntervalReadData" (cost=0.00..193374.57 rows=33782 width=46)
-> Bitmap Heap Scan (cost=53.25..8802.15 rows=29563 width=46)
    Recheck Cond: ("IntervalReadData".interval_id = "Interval".interval_id)
    Heap Blocks: 1024
-> Seq Scan on "IntervalReadData" (cost=0.00..193374.57 rows=33782 width=46)
    Filter: ((channel = 1::smallint) OR (channel = 2::smallint))
```

Commit made by **Daniel Zhang (張道博)** on 2013-06-15T05:02:09-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/be944a4a8d29e2300f2f46bda2b3e3c9760d09a8>

adding comment: #MSG-194 fixed

Corrected in #MSG-195.

MSG-195 — provide corrected view for energy and voltages for houses without pv

Commit made by **Daniel Zhang (張道博)** on 2013-06-17T03:28:16-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/883ef7967464c3d5d3f31cbe38182a8ff21c8efd>

corrected view to show all houses with correct readings: #MSG-195 fixed

Daniel Zhang (張道博)
17 Jun 2013 00:29

[illegible]

MSG-196 — add option to report element count only during recursive insert

Current reporting is aligning exactly.

MSG-197 — Prevent timeout during automated DB operations**MSG-199** — change testing mode output to use logging

Example:

```
time python -u ~/dzmbp-maui-smart-grid/src/recursiveInsertData.py -testing > insert-log.txt
```

Testing mode is ON.

Testing Mode is ON.

Inserting data to database test_meco.

MSG-200 — determine problem for duplicates not matching during successive loading of the same set

Current situation:

Insert to empty:

```
=====
```

Inserting data to database test_meco.

Parsing XML in ./20130304-da4c4461-c0ef-4b9b-9c19-541ee55e2c17-1-1.xml.gz.

```
{0}[0][3431]{0}[1][6877]*{0}[2][17246]*{0}[3][20682]*{0}[4][24128]*{0}[5][27564]{dupe on insert==>}{1472}[6][36301]*{0}[7][39736]*{0}[8][46608]*{0}[9][50043]*{0}[10][53478]*{0}[11][56913]*{0}[12][63788]*{0}[13][67223]*{0}[14][70658]*{0}[15][74229]*{0}[16][77675]*{0}[17][81126]*{0}[18][84562]*{0}[19][87997]*{0}[20][91432]*{0}[21][94867]*{0}[22][98302]*{0}[23][101737]*{0}[24][105172]*{0}[25][108686]*{0}[26][112121]*{0}[27][115567]*{0}[28][119014]*{0}[29][122461]*{0}[30][125896]*{0}[31][129326]*
real 5m27.510s
user 1m4.592s
sys 1m23.421s
```

Insert to loaded:

```
=====
```

Inserting data to database test_meco.

Parsing XML in ./20130304-da4c4461-c0ef-4b9b-9c19-541ee55e2c17-1-1.xml.gz.

```
{dupe on insert==>}{2680}[0][3431]{dupe on insert==>}{2684}[1][6877]{dupe on insert==>}{8052}[2][17246]{dupe on insert==>}{2684}[3][20682]{dupe on insert==>}{2684}[4][24128]{dupe on insert==>}{2684}[5][27564]{dupe on insert==>}{6840}[6][36301]{dupe on insert==>}{2684}[7][39736]{dupe on insert==>}{5368}[8][46608]{dupe on insert==>}{2684}[9][50043]{dupe on insert==>}{2684}[10][53478]{dupe on insert==>}{2684}[11][56913]{dupe on insert==>}{5368}[12][63788]{dupe on insert==>}{2684}[13][67223]{dupe on insert==>}{2684}[14][70658]{dupe on insert==>}{2684}[15][74229]{dupe on insert==>}{2684}[16][77675]{dupe on insert==>}{2684}[17][81126]{dupe on insert==>}{2684}[18][84562]{dupe on insert==>}{2684}[19][87997]{dupe on insert==>}{2684}[20][91432]{dupe on insert==>}{2684}[21][94867]{dupe on insert==>}{2684}[22][98302]{dupe on insert==>}{2684}[23][101737]{dupe on insert==>}{2684}[24][105172]{dupe on insert==>}{2684}[25][108686]{dupe on insert==>}{2684}[26][112121]{dupe on insert==>}{2684}[27][115567]{dupe on insert==>}{2684}[28][119014]{dupe on insert==>}{2684}[29][122461]{dupe on insert==>}{2684}[30][125896]{dupe on insert==>}{2680}[31][129326]{dupe on insert==>}
```

real 4m13.370s
 user 0m49.435s
 sys 0m33.826s

Comments

Daniel Zhang (張道博)
 18 Jun 2013 17:35

Commit made by **Daniel Zhang (張道博)** on 2013-06-18T20:33:36-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/dec003af970ace6bc642f10ec9d58a15f0351ed8>

| debugging insert discrepancy: #MSG-200 In Progress

Daniel Zhang (張道博)
 18 Jun 2013 18:01

Commit made by **Daniel Zhang (張道博)** on 2013-06-18T20:50:42-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/509e62a373801cf244892a1612721eaa5f29d65a>

| correcting assert; adding insert count: #MSG-200 In Progress

Daniel Zhang (張道博)
 18 Jun 2013 18:01

Commit made by **Daniel Zhang (張道博)** on 2013-06-18T21:01:29-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/17b5c0d6463a3a155c2b600a0dd9b6d199cbe83d>

| identified floating point equality problem: #MSG-200 fixed

Daniel Zhang (張道博)
 18 Jun 2013 18:11

Also dupe count != data process count due to data types other than Readings.

MSG-201 — fix floating point equality check in mecodupecheck

Comments

Daniel Zhang (張道博)
 19 Jun 2013 16:30

Commit made by **Daniel Zhang (張道博)** on 2013-06-19T19:30:10-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/b564dcfb0247f9f8cd4eddbdc3bfa8c16fb9e2f7c>

| debugging dupe checking: #MSG-201 In Progress

Daniel Zhang (張道博)
 19 Jun 2013 16:54

Commit made by **Daniel Zhang (張道博)** on 2013-06-19T19:52:35-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/4ccc7d60779b2ab2e847829593d66a589969bcb1>

| floating point equality works: #MSG-201 fixed

| Added DEBUG logging option.

MSG-202 — clean up unused views in meco_v3

Comments

Daniel Zhang (張道博)
 18 Jul 2013 17:27

Commit made by **Daniel Zhang (張道博)** on 2013-07-18T20:27:10-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/ec9e0f809a36b7392ddac4da9ef1c9ed48809d0b>

deprecating unused views: #MSG-202 In Progress

Daniel Zhang (張道博)
23 Jul 2013 16:57

Commit made by **Daniel Zhang (張道博)** on 2013-07-23T19:57:18-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/924e3ea8882ab79139d1dcc6cba17a0f069b029a>

deprecating unused/irrelevant views: #MSG-202 In Progress

Daniel Zhang (張道博)
07 Aug 2013 13:08

Commit made by **Daniel Zhang (張道博)** on 2013-08-07T16:08:27-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/711560baa362213872800e31356268e4d0be5c25>

removing deprecated views: #MSG-202 fixed

* PVServicePointIDs has changes.

MSG-203 — determine why insert count vs element count is initially one off

Example:

Parsing XML in ./20130304-da4c4461-c0ef-4b9b-9c19-541ee55e2c17-1-1.xml.gz.

```
{0}[0][3431]<3430>{*0}[1][6877]<3446>{*0}[2][17246]<10368>{*0}[3][20682]<3435>{*0}[4][24128]<3446>{*0}[5][27564]
<3435>{*dupe on insert==>}{1472}[6][36301]<7262>{*0}[7][39736]<3435>{*0}[8][46608]<6872>{*0}[9][50043]<3435>{*0}
[10][53478]<3435>{*0}[11][56913]<3435>{*0}[12][63788]<6875>{*0}[13][67223]<3435>{*0}[14][70658]<3435>{*0}[15]
[74229]<3571>{*0}[16][77675]<3446>{*0}[17][81126]<3446>{*0}[18][84562]<3435>{*0}[19][87997]<3435>{*0}[20][91432]
<3435>{*0}[21][94867]<3435>{*0}[22][98302]<3435>{*0}[23][101737]<3435>{*0}[24][105172]<3435>{*0}[25][108686]
<3514>{*0}[26][112121]<3435>{*0}[27][115567]<3446>{*0}[28][119014]<3446>{*0}[29][122461]<3446>{*0}[30][125896]
<3435>{*0}[31][129326]<3430>{*0}[32][136464]<0>{*
```

2013-06-19 16:55:18,541 - mecoxmlparser - INFO - Data process count = 136444.

Comments

Daniel Zhang (張道博)
19 Jun 2013 17:23

Commit made by **Daniel Zhang (張道博)** on 2013-06-19T20:23:28-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/29e21fd761f91cdd9e28ca4c6507afc2337ebb27>

corrected by changing counter position: #MSG-203 fixed

MSG-204 — determine divergence of insert count vs element count at iteration 2 and 3

Parsing XML in ./20130304-da4c4461-c0ef-4b9b-9c19-541ee55e2c17-1-1.xml.gz.

```
{0}(0)[3430]<3430,3430>{*0}(1)[6876]<3446,6876>{*0}(2)[17245]<10368,17244>{*0}(3)[20681]<3435,20679>{*0}(4)
[24127]<3446,24125>{*0}(5)[27563]<3435,27560>{*
```

Comments

Daniel Zhang (張道博)
19 Jun 2013 18:35

Non-insert elements were being included in the count.

Daniel Zhang (張道博)
19 Jun 2013 18:39

Commit made by **Daniel Zhang (張道博)** on 2013-06-19T21:39:18-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/19365ebb9ef670e9110d512d138ac45812eba57a>

insert count matches process for insert element count: #MSG-204 fixed

Daniel Zhang (張道博)
19 Jun 2013 18:39

Parsing XML in ./20130304-da4c4461-c0ef-4b9b-9c19-541ee55e2c17-1-1.xml.gz.
{0}{0}[3430]<3430,3430>{*}{0}(1)[6876]<3446,6876>{*}{0}(2)[17244]<10368,17244>{*}{0}(3)
[20679]<3435,20679>{*}{0}(4)[24125]<3446,24125>{*}{0}(5)[27560]<3435,27560>{*}{dupe on
insert==>}{1472}{6}[36294]<7262,34822>{*}{0}(7)[39729]<3435,38257>{*}{0}(8)[46601]
<6872,45129>{*}{0}(9)[50036]<3435,48564>{*}{0}(10)[53471]<3435,51999>{*}{0}(11)[56906]
<3435,55434>{*}{0}(12)[63781]<6875,62309>{*}{0}(13)[67216]<3435,65744>{*}{0}(14)[70651]
<3435,69179>{*}{0}(15)[74222]<3571,72750>{*}{0}(16)[77668]<3446,76196>{*}{0}(17)[81114]
<3446,79642>{*}{0}(18)[84549]<3435,83077>{*}{0}(19)[87984]<3435,86512>{*}{0}(20)[91419]
<3435,89947>{*}{0}(21)[94854]<3435,93382>{*}{0}(22)[98289]<3435,96817>{*}{0}(23)[101724]
<3435,100252>{*}{0}(24)[105159]<3435,103687>{*}{0}(25)[108673]<3514,107201>{*}{0}(26)
[112108]<3435,110636>{*}{0}(27)[115554]<3446,114082>{*}{0}(28)[119000]<3446,117528>{*
{0}(29)[122446]<3446,120974>{*}{0}(30)[125881]<3435,124409>{*}{0}(31)[129311]
<3430,127839>{*}{0}(32)[136444]<0,134972>{*
2013-06-19 18:38:32,359 - mecoxmlparser - INFO - Data process count = 136444.
2013-06-19 18:38:32,359 - mecoxmlparser - INFO - Data process count = 136444.
2013-06-19 18:38:32,359 - mecoxmlparser - INFO - Dupe check count = 106140.
2013-06-19 18:38:32,359 - mecoxmlparser - INFO - Dupe check count = 106140.

real 3m45.605s
user 0m51.879s
sys 0m8.873s

MSG-205 — update data insert documentation

Comments

Daniel Zhang (張道博)
17 Sep 2013 14:48

Commit made by **Daniel Zhang (張道博)** on 2013-09-17T17:48:19-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/6cc9df36f73dd0f6e4ac1d86e8c49932143cda19>

updating documentation: #MSG-205 fixed

MSG-206 — rewrite location records

Comments

Daniel Zhang (張道博)
20 Jun 2013 15:28

Loading static location record data in file 01e25a6c-95cf-4741-ac63-f7df530808e2-
LOCATION.tsv to database meco_v3.
Processed 97 lines.
Finished inserting location records.

MSG-207 — rewrite meter records

Comments

Daniel Zhang (張道博)
20 Jun 2013 15:29

Loading static meter record data in file 01e25a6c-95cf-4741-ac63-f7df530808e2-METER.tsv to database meco_v3.
Processed 99 lines.

MSG-208 — count inserted readings separately

Comments

Daniel Zhang (張道博)
20 Jun 2013 16:20

Commit made by **Daniel Zhang (張道博)** on 2013-06-20T19:19:50-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/e790cef5c147cb6214827b00edf6879f50ea1ecc>

| added separate readings insert count; updated log legend: #MSG-208 fixed

MSG-211 — Provide separate script-based method of plotting

Comments

Daniel Zhang (張道博)
07 Aug 2013 16:06

Script-based plotting is not needed at this time.

MSG-212 — determine duplicate register records

Comments

Daniel Zhang (張道博)
24 Jun 2013 16:13

Commit made by **Daniel Zhang (張道博)** on 2013-06-24T19:13:01-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/d82f412df3a2dd4c5ebf7cd50374f1a6d2580065>

| added view to count register branch duplicates: #MSG-212 fixed

MSG-213 — eliminate duplicate log messages

Comments

Daniel Zhang (張道博)
26 Jun 2013 16:40

Commit made by **Daniel Zhang (張道博)** on 2013-06-26T19:40:38-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/4973d7f77426106911c09ae9512892e298c4ae77>

| duplicate logging output is fixed by explicitly handling the stream handler: #MSG-213 fixed

MSG-214 — add count of register duplicates to concise log

Comments

Daniel Zhang (張道博)
26 Jun 2013 13:46

Commit made by **Daniel Zhang (張道博)** on 2013-06-26T16:45:52-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/f616051190191f6892adc5c33db1f3179ac5d0b2>

| Register duplicates are added to the concise log: #MSG-214 fixed

MSG-215 — determine remaining dupes

37 are dupes:

Parsing XML in ./meco_v3-energy-test-data.xml.gz.

```
{re-dupe==>}{rd-dupe==>}{32rd,56re}{0}[125]<Ord,0re,37,37>—{0rd,0re}{0}[125]<Ord,0re,0,37>*
```

Comments

Daniel Zhang (張道博) Remaining dupes are attached.

26 Jun 2013 23:25

MSG-217 — have the capability to remove register branches that do not have register data

MSG-218 — have the capability to remove reading branches that do not have reading data

MSG-219 — have the capability to remove event branches that do not have event data

MSG-220 — automatically obtain weather data

Comments

Daniel Zhang (張道博) Commit made by **Daniel Zhang (張道博)** on 2013-07-01T20:18:25-07:00

01 Jul 2013 17:18

<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/7399cd22fb82b843ec5cbc3cadd581f7294caa5b>

national weather data is retrieved: #MSG-220 fixed

MSG-222 — support extract of local climate data

Comments

Daniel Zhang (張道博) Commit made by **Daniel Zhang (張道博)** on 2013-07-02T20:13:13-07:00

02 Jul 2013 17:13

<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/13d8d57f8f8346944eef7be0a8c2b992454d19be>

setting up weather data loading: #MSG-176 In Progress

#MSG-178 In Progress

#MSG-222 In Progress

Daniel Zhang (張道博) Commit made by **Daniel Zhang (張道博)** on 2013-07-03T20:26:56-07:00

03 Jul 2013 17:27

<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/82231b6c03b516801d36703ed5ea9708de5820e5>

setting up weather data loading: #MSG-176 In Progress

#MSG-178 In Progress

#MSG-222 In Progress

Daniel Zhang (張道博) Local climate data is extracted during insertion.

03 Jul 2013 17:47

MSG-224 — provide parsing of noaa weather data

Comments

Daniel Zhang (張道博) Commit made by **Daniel Zhang (張道博)** on 2013-07-04T19:01:33-07:00

04 Jul 2013 16:01

<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/13d8d57f8f8346944eef7be0a8c2b992454d19be>

[Grid/commit/20d69e9e64495fc213cd63a4d304b6430a702020](https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/20d69e9e64495fc213cd63a4d304b6430a702020)

| weather data is returned in-memory: #MSG-224 fixed

MSG-225 — provide duplicate checking for noaa weather data

Comments

Daniel Zhang (張道博)
09 Jul 2013 17:27

Commit made by **Daniel Zhang (張道博)** on 2013-07-09T20:26:59-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/f32d3eebf8c65f90e25d7e5603d6cb01723c92cf>

| dupes are dropped: #MSG-225 fixed

MSG-226 — be able to insert parsed weather data to the db

Comments

Daniel Zhang (張道博)
05 Jul 2013 17:56

Commit made by **Daniel Zhang (張道博)** on 2013-07-05T20:56:09-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/4e333aa05ef65a25b1be3e071ebf1ef6f9cf5272>

| putting data into insertable form: #MSG-226 In Progress

Daniel Zhang (張道博)
08 Jul 2013 15:45

Commit made by **Daniel Zhang (張道博)** on 2013-07-08T18:44:53-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/1e1d93fe429fed800d221aba94458260ea42ceeb>

| parsed data is insertable: #MSG-226 fixed

MSG-227 — convert in-memory parsing to dict format

Comments

Daniel Zhang (張道博)
05 Jul 2013 16:13

Commit made by **Daniel Zhang (張道博)** on 2013-07-05T19:13:07-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/d153118279a3896416787eb3e495541f32800077>

| converted to dict structure: #MSG-227 fixed

MSG-228 — set primary key on noaa table

Comments

Daniel Zhang (張道博)
08 Jul 2013 17:12

Commit made by **Daniel Zhang (張道博)** on 2013-07-08T20:12:30-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/ee53a8e2e9d75e87ffcb9d9a98b9d553dd869322>

| adding pkwy; adding tz to timestamp: #MSG-228 fixed

Daniel Zhang (張道博)
08 Jul 2013 19:09

Commit made by **Daniel Zhang (張道博)** on 2013-07-08T22:08:55-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/ee53a8e2e9d75e87ffcb9d9a98b9d553dd869322>

[Grid/commit/44c7544be765c3bba939db6908e6acf8d30e3d48](https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/44c7544be765c3bba939db6908e6acf8d30e3d48)

pkwy set to wban-datetime-record_type: #MSG-228 fixed

Tested using hourly data for 2012-01 to 2013-07.

Daniel Zhang (張道博)
08 Jul 2013 19:11

Commit made by **Daniel Zhang (張道博)** on 2013-07-08T22:10:58-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/f7c80a50b75c12f065326e71fd9549254b85b6db>

pkey set to wban-datetime-record_type: #MSG-228 fixed

Tested with 2012-01 to 2013-07 hourly data.

MSG-229 — test use of tz in MeterData

Daniel Zhang (張道博)
22 Jul 2013 13:45

Decided to not use tz in meter data at this time.

MSG-230 — support weather data loading notifications

- Report records loaded.
- Report time intervals loaded.

Daniel Zhang (張道博)
11 Jul 2013 17:16

Commit made by **Daniel Zhang (張道博)** on 2013-07-11T20:16:33-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/2d9a31634103f06531ffa14afb273cdb60efee32>

return date times to be used for interval calcs: #MSG-230 In Progress

Daniel Zhang (張道博)
12 Jul 2013 17:40

Commit made by **Daniel Zhang (張道博)** on 2013-07-12T20:40:19-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/dda72b960020d87b5e443c05941ad0bc0930642e>

days are reported for weather loading: #MSG-230 fixed

MSG-232 — create location history table

Daniel Zhang (張道博)
16 Jul 2013 14:59

Commit made by **Daniel Zhang (張道博)** on 2013-07-16T17:59:43-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/d85db14f6ceb50df012a90787ea2b6d522080556>

adding meter location history table: #MSG-232 fixed

MSG-233 — isolate days during weather data loading notifications

Comments

Daniel Zhang (張道博)
15 Jul 2013 14:46

Commit made by **Daniel Zhang (張道博)** on 2013-07-15T17:46:38-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/5d31d79fa77347b033ac8b021dd4e9bb8784a7a1>

| datetimes are grouped by day: #MSG-233 fixed

Daniel Zhang (張道博)
15 Jul 2013 15:12

Days are not being grouped.

Daniel Zhang (張道博)
15 Jul 2013 15:16

Commit made by **Daniel Zhang (張道博)** on 2013-07-15T18:16:38-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/bba07b4403c749e771800fa481dface13d4de1c0>

| days are grouped: #MSG-233 fixed

MSG-234 — fix assertion error in time util during loading of actual data

... line 39, in reportOfDays

assert type(day) is dt.datetime, "Day should be type datetime."

AssertionError: Day should be type datetime.

Comments

Daniel Zhang (張道博)
15 Jul 2013 15:04

Commit made by **Daniel Zhang (張道博)** on 2013-07-15T18:03:27-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/d2ec223c423fef92fc71c2a96216d9f96bbd9bd1>

| correctly submitting datetime type: #MSG-234 fixed

MSG-235 — fix smtp error

... line 150, in sendMailWithAttachments

self.config.configOptionValue('Notifications', 'email_smtp_server'))

File "/usr/lib/python2.7/smtplib.py", line 249, in __init__

(code, msg) = self.connect(host, port)

File "/usr/lib/python2.7/smtplib.py", line 309, in connect

self.sock = self._get_socket(host, port, self.timeout)

File "/usr/lib/python2.7/smtplib.py", line 284, in _get_socket

return socket.create_connection((port, host)

, timeout)

File "/usr/lib/python2.7/socket.py", line 553, in create_connection

for res in getaddrinfo(host, port, 0, SOCK_STREAM):

socket.gaierror: [Errno -2] Name or service not known

Comments

Daniel Zhang (張道博)
15 Jul 2013 15:18

Error is due to timeout during connection to the SMTP server.

MSG-236 — load weather data to meco_v3

Comments

Daniel Zhang (張道博)
15 Jul 2013 15:35

Data is loaded.

Processed 546 days between 2012-01-01 to 2013-06-29, inclusive.

MSG-237 — remove unnecessary weather data

Comments

Daniel Zhang (張道博)
15 Jul 2013 16:43

Commit made by **Daniel Zhang (張道博)** on 2013-07-15T19:26:35-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/4b2be0d27db6d5e8988dde3ab550c45ea1d30c56>

| restricting retrieval: #MSG-237 fixed

MSG-238 — prevent retrieval of existing weather data

Comments

Daniel Zhang (張道博)
23 Jul 2013 15:47

Commit made by **Daniel Zhang (張道博)** on 2013-07-23T18:47:36-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/6379354e64956d0f41f96a923a186b380ea74eaa>

| separating retrieve: #MSG-238 In Progress

Daniel Zhang (張道博)
23 Jul 2013 16:22

Commit made by **Daniel Zhang (張道博)** on 2013-07-23T19:22:32-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/dd63f24709a1b02dbcc0e77cab8e67e1bd86b306>

| existing files are not retrieved: #MSG-238 fixed

MSG-239 — handle incomplete retrieval

... line 39, in downloadWeatherData

curl.perform()

pycurl.error: (6, "Couldn't resolve host 'cdo.ncdc.noaa.gov'")

Comments

Daniel Zhang (張道博)
06 Aug 2013 16:51

Commit made by **Daniel Zhang (張道博)** on 2013-08-06T19:51:28-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/ef56f405697c90ca8c632e1aecc6f4cf8873f2d9>

| added error checking to downloading: #MSG-239 fixed

MSG-240 — insert meter location history records

Comments

Daniel Zhang (張道博)
16 Jul 2013 17:09

Loading Meter Location History data in file mecoMeterHistory20130715.txt to database meco_v3.
Processed 117 lines.

MSG-241 — adapt houses without pv view to meter location history

Comments

Daniel Zhang (張道博)
18 Jul 2013 17:18

Commit made by **Daniel Zhang (張道博)** on 2013-07-18T20:18:41-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/95356b0feb25828bb4e7754e527df6fb58c466eb>

| added view for houses without pv using meter location history: #MSG-241 fixed

MSG-242 — support testing during insertion

Provide support for insertion to testing DBs.

Comments

Daniel Zhang (張道博)
17 Jul 2013 16:43

Commit made by **Daniel Zhang (張道博)** on 2013-07-17T19:43:03-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/a163fe5eed3e34482754ffbfd4803c4f12c53eb7>

| testing mode is supported: #MSG-242 fixed

MSG-243 — support insertion of meter location history records

Comments

Daniel Zhang (張道博)
16 Jul 2013 17:11

Commit made by **Daniel Zhang (張道博)** on 2013-07-16T20:09:30-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/e51dfab638396419e22d6b8f237051006d10ef4f>

| adding support for inserting meter location history records: #MSG-243 fixed

MSG-244 — report records processed count during meter location history loading

Current count is line count.

Comments

Daniel Zhang (張道博)
24 Sep 2013 16:26

Not needed at this time.

MSG-245 — add view for readings by meter location history

Comments

Daniel Zhang (張道博)
18 Jul 2013 16:37

Commit made by **Daniel Zhang (張道博)** on 2013-07-18T19:37:41-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/5c2254a94ec1a9b3d991ccaafa5ee82a72951948>

| adding readings by meter location history view: #MSG-245 fixed

- Deprecating some unused views.
- Adding some indices to Meter Location History.

Daniel Zhang (張道博)
18 Jul 2013 17:01

Commit made by **Daniel Zhang** (張道博) on 2013-07-18T20:01:01-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/bf0da43545496cff9f3ae15b11154fdeccf4c709>

removing end time alias; removing start time: #MSG-245 fixed

Daniel Zhang (張道博)
18 Jul 2013 17:09

Commit made by **Daniel Zhang** (張道博) on 2013-07-18T20:09:10-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/9b2fbefd0031098f1b7a55a905e2857980c909e8>

adding address: #MSG-245 fixed

MSG-246 — determine cause of readings not referenced by meter location history

Total readings = 10011736

MLH readings = 9730256

Difference = 281480

Comments

Daniel Zhang (張道博)
19 Jul 2013 17:13

Commit made by **Daniel Zhang** (張道博) on 2013-07-19T20:13:31-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/9a597771e0c6019eec2d8166f22d5dadb47d5e64>

adding views to help determine unreferenced readings: #MSG-246 In Progress

Daniel Zhang (張道博)
22 Jul 2013 13:44

Meters not referenced by MLH include readings before install and readings after uninstall.

MSG-247 — add views for unreferenced readings

Comments

Daniel Zhang (張道博)
22 Jul 2013 16:15

Commit made by **Daniel Zhang** (張道博) on 2013-07-22T19:15:27-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/e740f7af4f51d41ad9bf8d27cfe50aedba9c369c>

added views for nonMLH readings: #MSG-247 fixed

- Cleaned up MLH readings view.
- Cleaned up dz without PV view.
- Removed views returning incorrect results for nonMLH readings.

MSG-248 — retrieve data where there is an existing partial set

Comments

Daniel Zhang (張道博)
25 Jul 2013 13:43

Commit made by **Daniel Zhang** (張道博) on 2013-07-25T16:43:14-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/0dbd637a9d643a814fc6a7c944b5dcadbc970cce>

retrieving last data set on retrieval: #MSG-248 fixed
parallelized retrieval: #MSG-249 fixed

Daniel Zhang (張道博)
25 Jul 2013 13:46

Commit made by **Daniel Zhang (張道博)** on 2013-07-25T16:46:41-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/88c46ee488f588c7877972c3f82f7b71be3bf5eb>

retrieving last data set on retrieval: #MSG-248 fixed
parallelized retrieval: #MSG-249 fixed

Daniel Zhang (張道博)
25 Jul 2013 13:49

Commit made by **Daniel Zhang (張道博)** on 2013-07-25T16:49:23-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/f14ec17b02749b7b8dbfeb8bb16a1332c6812f7f>

parallelized retrieval: #MSG-249 fixed
retrieving last data set on retrieval: #MSG-248 fixed

MSG-249 — uncompress retrieved data and compress hourly data using multiprocessing

Comments

Daniel Zhang (張道博)
25 Jul 2013 13:43

Commit made by **Daniel Zhang (張道博)** on 2013-07-25T16:43:14-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/0dbd637a9d643a814fc6a7c944b5dcadbc970cce>

retrieving last data set on retrieval: #MSG-248 fixed
parallelized retrieval: #MSG-249 fixed

Daniel Zhang (張道博)
25 Jul 2013 13:46

Commit made by **Daniel Zhang (張道博)** on 2013-07-25T16:46:41-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/88c46ee488f588c7877972c3f82f7b71be3bf5eb>

retrieving last data set on retrieval: #MSG-248 fixed
parallelized retrieval: #MSG-249 fixed

Daniel Zhang (張道博)
25 Jul 2013 13:49

Commit made by **Daniel Zhang (張道博)** on 2013-07-25T16:49:23-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/f14ec17b02749b7b8dbfeb8bb16a1332c6812f7f>

parallelized retrieval: #MSG-249 fixed
retrieving last data set on retrieval: #MSG-248 fixed

MSG-250 — create energy view with PV readings by service point ID

Comments

Daniel Zhang (張道博)
25 Jul 2013 17:53

Commit made by **Daniel Zhang (張道博)** on 2013-07-25T20:53:03-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/fc980252cad5cbd96ff82f0a64a1f96322399f3e>

adding view readings_with_pv_service_point_id: #MSG-250 fixed

- Corrected dz_energy_voltages_for_houses_without_pv view.
- Changed col name in PVServicePointIDs.
- Updating DB.
- Needs further cleanup to remove unused added views.

MSG-252 — load data after retrieval of last dated set

Comments

Daniel Zhang (張道博)
26 Jul 2013 17:43

Commit made by **Daniel Zhang (張道博)** on 2013-07-26T20:43:09-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/25039a07f7d452bc4793deb85b3e7c63c629fb70>

last dated weather set is supported: #MSG-252 fixed

- Added all data argument.
- Code needs reorganization.

MSG-253 — move weather URL to site config

Comments

Daniel Zhang (張道博)
31 Jul 2013 15:53

Commit made by **Daniel Zhang (張道博)** on 2013-07-31T18:53:31-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/c1a5168900b76fef82f2d8f804e79cba427336a4>

removing unused; changing url source, changing pattern source, renaming weather related scripts: #MSG-253 fixed
#MSG-263 fixed

MSG-254 — move file download pattern to site config

MSG-255 — be able to load weather data from last date

Comments

Daniel Zhang (張道博)
01 Aug 2013 15:56

Commit made by **Daniel Zhang (張道博)** on 2013-08-01T18:56:32-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/c9e1e5ff98a33c61133fe6d05d8465ff3ed2116b>

overloaded datepart: #MSG-255 In Progress

Daniel Zhang (張道博)
01 Aug 2013 17:26

Commit made by **Daniel Zhang (張道博)** on 2013-08-01T20:25:57-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/a57eb954efb61e736a425da046cf6a79aef79a2e>

retrieve data from last date and also the previous month: #MSG-255 In Progress

Daniel Zhang (張道博)
02 Aug 2013 14:41

Commit made by **Daniel Zhang (張道博)** on 2013-08-02T17:41:16-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/b943122788a10aa6dbe839ebd43e7e7ed7307a2a>

rearranging to prevent dupe download: #MSG-255 In Progress

Daniel Zhang (張道博)
02 Aug 2013 14:48

Compressed insert script needs processing from last date.

Daniel Zhang (張道博)
02 Aug 2013 15:38

Commit made by **Daniel Zhang (張道博)** on 2013-08-02T18:37:57-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/466c0a9962a4d18839a1c634b703159c5fb813f9>

distributing operations: #MSG-255 In Progress

Daniel Zhang (張道博)
02 Aug 2013 16:12

Commit made by **Daniel Zhang (張道博)** on 2013-08-02T19:12:38-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/4f06a20f625947f85c0bf0ee9abd64955116c7c4>

weather data is loaded from last loaded date: #MSG-255 fixed

MSG-257 — fix /src/tests/test____mecodbutil.py

Comments

Daniel Zhang (張道博)
29 Jul 2013 16:48

Commit made by **Daniel Zhang (張道博)** on 2013-07-29T19:48:26-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/36ae57b89f8585aa95454978867416eed9ccc3a1>

fixed tests by correcting msg_db_util: #MSG-257 fixed

MSG-258 — fix /src/tests/test____mecodupecheck.py

Comments

Daniel Zhang (張道博)
30 Jul 2013 14:44

Dupe check tests pass.

MSG-259 — fix /src/tests/test____mecoxmlparser.py

Comments

Daniel Zhang (張道博)
30 Jul 2013 14:47

Commit made by **Daniel Zhang (張道博)** on 2013-07-30T17:47:28-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/3f8a229e1836bbf15a497b50da90524f49d6ca31>

parse test fixed: #MSG-259 fixed

MSG-260 — raise exception on unmatched logger type

MSG-261 — rename config file

Comments

Daniel Zhang (張道博)
31 Jul 2013 15:40

Commit made by **Daniel Zhang (張道博)** on 2013-07-31T18:40:29-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/a8122a667bd50065bf7c48668f469fcd2db93b53>

| renaming config; updating documentation: #MSG-261 fixed

MSG-262 — remove need for log type in log() method

Comments

Daniel Zhang (張道博)
31 Jul 2013 17:06

Commit made by **Daniel Zhang (張道博)** on 2013-07-31T20:05:50-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/cf66f34e822dfd752bcf07b3ea488aa547691958>

| removed need for type arg on log(): #MSG-262 fixed

MSG-263 — move weather data file pattern to site config

Comments

Daniel Zhang (張道博)
31 Jul 2013 15:53

Commit made by **Daniel Zhang (張道博)** on 2013-07-31T18:53:31-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/c1a5168900b76fef82f2d8f804e79cba427336a4>

| removing unused; changing url source, changing pattern source, renaming weather related scripts: #MSG-253 fixed
#MSG-263 fixed

MSG-264 — fix weather data retrieval

Map method only accepts sequence argument.

Comments

Daniel Zhang (張道博)
01 Aug 2013 15:29

Commit made by **Daniel Zhang (張道博)** on 2013-08-01T18:29:03-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/a67fda1385d70320950482eb648710e9ee977f68>

| fixed weather data retrieval: #MSG-264 fixed

| * Cleaned up globals.

MSG-265 — perform cleanup of unused decompressed files

Comments

Daniel Zhang (張道博)
06 Aug 2013 16:12

Commit made by **Daniel Zhang (張道博)** on 2013-08-06T19:11:58-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/3c4c924b73f6f20dfb3f424ce7e877a2b7f931d4>

| cleaning up unused txt files: #MSG-265 fixed

MSG-267 — parallelize secondary retrieval

Comments

Daniel Zhang (張道博) Use of map is impeded by forceDownload = True.
05 Aug 2013 15:58

Daniel Zhang (張道博) Commit made by **Daniel Zhang (張道博)** on 2013-08-05T19:20:04-07:00
05 Aug 2013 16:20 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/5fa80d916f088994c6445de626be9e442445e74d>

| parallelized secondary retrieval: #MSG-267 fixed

MSG-268 — compress exported dbs

Comments

Daniel Zhang (張道博) Commit made by **Daniel Zhang (張道博)** on 2013-08-19T19:32:10-07:00
19 Aug 2013 16:32 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/e97d2117add6ee3964036a88734a36d86aabdb6ef>

| dbs are compressed: #MSG-268 fixed

MSG-269 — support multiple db export**MSG-270** — update sample config in repo

Comments

Daniel Zhang (張道博) Commit made by **Daniel Zhang (張道博)** on 2013-08-16T18:50:40-07:00
16 Aug 2013 15:50 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/2e9389d7c67d0623d415ff869744f18e22c9650d>

| updating sample config: #MSG-270 fixed

MSG-271 — add copyright/license to src

Comments

Daniel Zhang (張道博) Commit made by **Daniel Zhang (張道博)** on 2013-08-20T17:13:20-07:00
20 Aug 2013 14:13 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/2d48ac742b11db9f5a7262597ce0529262201bd3>

| added copyright and license notes: #MSG-271 fixed

MSG-272 — parallelize meco energy data loading

Comments

Daniel Zhang (張道博) Commit made by **Daniel Zhang (張道博)** on 2013-08-12T18:51:35-07:00
12 Aug 2013 15:51 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/6a8079470534f50e15386e06b9603124c7716c46>

parallelized data loading: #MSG-272 fixed
 keyboard interrupt terminates loading: #MSG-277 fixed

MSG-273 — update view meter_ids_for_houses_without_pv to work with mlh

Comments

Daniel Zhang (張道博)
 15 Aug 2013 14:30

Commit made by **Daniel Zhang (張道博)** on 2013-08-15T17:30:11-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/ae1102d154d08173477dd04adf5d7029ac3b4681>

added view meter_ids_for_nonpv_service_points: #MSG-273 fixed

This replaces meter_ids_for_houses_with_pv because it works with the MLH instead of the Location table.

MSG-274 — have a view for new pv instances

This is for providing notification of new PV instances.

Comments

Daniel Zhang (張道博)
 16 Aug 2013 13:48

Commit made by **Daniel Zhang (張道博)** on 2013-08-16T16:48:18-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/49bc7d832308b7ef3c3cd749ac0e4c8c91037d73>

additions & changes related to pv readings in nonpv mlh: #MSG-274 fixed

MSG-275 — add view for monthly energy summary for houses without pv

Comments

Daniel Zhang (張道博)
 09 Aug 2013 17:09

Commit made by **Daniel Zhang (張道博)** on 2013-08-09T20:09:44-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/6c2c3e4621efe1464b9ec504ab06466bb261442c>

added nonpv service point id view; added monthly energy summary for nonpv sp: #MSG-275 fixed

- PVServicePointIDs has new columns.
- CD views added.
- Deprecating get voltage views.
- Monthly energy summary views added.
- PV sec pt spec view added

Daniel Zhang (張道博)
 09 Aug 2013 17:13

Commit made by **Daniel Zhang (張道博)** on 2013-08-09T20:13:30-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/560ccca1a25ea127eda2aedf8057ac73a717f92a>

added nonpv service point id view; added monthly energy summary for nonpv sp:
#MSG-275 fixed

- PVServicePointIDs has new columns.
- CD views added.
- Deprecating get voltage views.
- Monthly energy summary views added.
- PV svc pt spec view added

MSG-276 — change multiprocessing instances to use config option

Comments

Daniel Zhang (張道博)
16 Aug 2013 16:21

Commit made by **Daniel Zhang (張道博)** on 2013-08-16T19:21:34-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/32af6426ccc882f5ef9f1535cd33928ae88e1bb2>

using config-based limit: #MSG-276 fixed

MSG-278 — adjust live output during multiprocessing loading

MSG-280 — add job id to parallel loader

Comments

Daniel Zhang (張道博)
13 Aug 2013 15:17

Commit made by **Daniel Zhang (張道博)** on 2013-08-13T18:16:51-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/e5d6cde90960ffae80b8e55283f0c28fc744a756>

added job id: #MSG-280 fixed

MSG-282 — send latest view results to email

MSG-284 — handle db connect exception

MSG-285 — test multiprocessing log results

Comments

Daniel Zhang (張道博)
14 Aug 2013 17:39

Multiprocessing results have correctly separated output.

MSG-286 — keyboard interrupt doesn't terminate multiprocessing

Comments

Daniel Zhang (張道博)
14 Aug 2013 17:46

Terminate works after double interrupt.

MSG-287 — add linefeeds to concise log

Comment

Daniel Zhang (張道博)
22 Aug 2013 13:55

Not necessary at this time.

its

MSG-288 — get view results since a last processed date

- Provide storage for a last processed date.

This is to allow notifications based on views.

Comments

Daniel Zhang (張道博)
16 Aug 2013 16:10

Commit made by **Daniel Zhang (張道博)** on 2013-08-16T19:10:00-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/bb6d35c85d5686283c5098eb6a390639469313ab>

| stubbing out notifier: #MSG-288 In Progress

MSG-289 — evaluate performance of flattened readings

Comments

Daniel Zhang (張道博)
24 Sep 2013 16:21

Not applicable at this time.

MSG-290 — verify insertion sums during loading

```
...4:{0rd,0re,0ev}(39)[151646]<2688rd,56re,0ev,3440,151003>*4:{rd-dupe==>}4:{48rd,0re,0ev}(40)[155086]
<2640rd,56re,0ev,3392,154395>*4:{0rd,0re,0ev}(41)[158526]<2688rd,56re,0ev,3440,157835>*4:{rd-dupe==>}4:
{34rd,0re,0ev}(42)[161966]<2654rd,56re,0ev,3406,161241>*4:{0rd,0re,0ev}(43)[165504]
<2688rd,147re,0ev,3538,164779>* — 4:{0rd,0re,0ev}(44)[165504]<0rd,0re,0ev,0,164779>*
```

The final summarization should display a sum of insertions. It is currently showing all zero values except for total items processed.

Comments

Daniel Zhang (張道博)
06 Sep 2013 16:24

Commit made by **Daniel Zhang (張道博)** on 2013-09-06T19:24:14-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/a4dc01b477912f290570208facb3d01415a677e9>

| updating documentation: #MSG-290 In Progress

Daniel Zhang (張道博)
09 Sep 2013 16:24

Output using unit test data on a fresh db:

Inserting data to database test_meco.

Parsing XML in ./meco_v3-energy-test-data.xml.gz.

```
8:{0rd,0re,0ev}(0)[125]<32rd,56re,4ev,125,125> — 8:{0rd,0re,0ev}(0)[125]
<0rd,0re,0ev,0,125>*
```

Wall time = 0.33 seconds.

The summary totals are incorrectly reported as zero.

Daniel Zhang (張道博)
09 Sep 2013 17:36

Commit made by **Daniel Zhang (張道博)** on 2013-09-09T20:35:55-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/96ecc12c61fa3e8bda034d53a830313905ac800c>

adding support for final report: #MSG-290 In Progress

Daniel Zhang (張道博)
10 Sep 2013 16:11

Commit made by **Daniel Zhang (張道博)** on 2013-09-10T19:11:07-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/eb95044d6c364a4e4136b7133c53fd70c712d907>

insertion sums added: #MSG-290 fixed

MSG-292 — remove source file after compress

Comments

Daniel Zhang (張道博)
20 Aug 2013 16:59

Commit made by **Daniel Zhang (張道博)** on 2013-08-20T19:59:47-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/1eb8462b3542421f759c48f8b9c2efeec8849ab8>

uncompressed file is removed: #MSG-292 fixed
removal error is handled: #MSG-296 fixed

MSG-294 — write export to cloud storage

Comments

Daniel Zhang (張道博)
25 Oct 2013 14:20

<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/7ecca7a6433dca3f5ee2e3240a1fc9fa0019eac8>

MSG-295 — verify compressed file

MSG-296 — handle error during remove

Comments

Daniel Zhang (張道博)
20 Aug 2013 16:59

Commit made by **Daniel Zhang (張道博)** on 2013-08-20T19:59:47-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/1eb8462b3542421f759c48f8b9c2efeec8849ab8>

uncompressed file is removed: #MSG-292 fixed
removal error is handled: #MSG-296 fixed

MSG-298 — test data retrieval

MSG-299 — create data table

Comments

Daniel Zhang (張道博)
22 Aug 2013 17:25

Commit made by **Daniel Zhang (張道博)** on 2013-08-22T20:23:58-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/8d8be3448b7230d3d996a1277428414199371dea>

| adding table structure for egauge service: #MSG-299 fixed

MSG-300 — adapt egauge service to msg

Comments

Daniel Zhang (張道博)
22 Aug 2013 16:11

Commit made by **Daniel Zhang (張道博)** on 2013-08-22T19:10:52-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/d11661da07b4413a889e20c9f85c04616f93cf78>

| initial adaptation: #MSG-300 fixed

MSG-301 — switch automated services to automated role

A separate DB role should be used for automated operations. They are currently being run under a user role.

MSG-302 — be able to retrieve egauge data

Comments

Daniel Zhang (張道博)
23 Aug 2013 14:44

Commit made by **Daniel Zhang (張道博)** on 2013-08-23T17:43:58-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/79659b417dc8723ee4bd3165bb975c8749fd7617>

| modifying to support MSG egauge retrieval: #MSG-302 In Progress

Daniel Zhang (張道博)
23 Aug 2013 16:13

Commit made by **Daniel Zhang (張道博)** on 2013-08-23T19:13:07-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/792e38629723555229092d8ab41548c38229c8b4>

| data is retrieved: #MSG-302 fixed

| * Added username and password.

MSG-303 — be able to insert egauge data

Comments

Daniel Zhang (張道博)
26 Aug 2013 15:24

Commit made by **Daniel Zhang (張道博)** on 2013-08-26T18:24:16-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/1bab3ce768557deafec4ba41f91df9d3b94c6fca>

| data can be inserted: #MSG-303 fixed

MSG-304 — add config docs for msg egauge service

Comments

Daniel Zhang (張道博)
11 Sep 2013 16:10

Commit made by **Daniel Zhang (張道博)** on 2013-09-11T19:10:32-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/c8892dbbfd90c06c4d58c9ce71198760b72cdaa4>

| adding msg egauge service config example: #MSG-304 fixed

MSG-305 — add sequence for msg egauge service

Comments

Daniel Zhang (張道博) Not needed.
23 Aug 2013 16:29

MSG-306 — alter table to include all columns present

Comments

Daniel Zhang (張道博) Commit made by **Daniel Zhang (張道博)** on 2013-08-23T20:17:06-07:00
23 Aug 2013 17:17 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/9476b93aee7b445bfd09a7334d5f672d746134ca>

| adding table and view creation script: #MSG-306 fixed

MSG-307 — remove house mappings

Comments

Daniel Zhang (張道博) Commit made by **Daniel Zhang (張道博)** on 2013-08-26T17:36:04-07:00
26 Aug 2013 14:36 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/0e6f82fa5daa38287be6c9009b9e31d2b53a484b>

| removed use of house id: #MSG-307 fixed

MSG-308 — remove duplicate usage cols

Columns with _usage suffixes should be removed.

Comments

Daniel Zhang (張道博) Re-evaluate later.
15 Oct 2013 15:48

MSG-309 — provide notification of newly loaded data

Comments

Daniel Zhang (張道博) Commit made by **Daniel Zhang (張道博)** on 2013-08-30T17:57:17-07:00
30 Aug 2013 14:59 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/686922e06e390b0e553780ef0353d8e0c31924af>

| working on notification: #MSG-309 In Progress

Daniel Zhang (張道博) Commit made by **Daniel Zhang (張道博)** on 2013-09-02T19:07:58-07:00
02 Sep 2013 16:08 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/3098275d41f3fc11a2f2569af802479eeca79e3d>

| adding last report date check: #MSG-309 In Progress

Daniel Zhang (張道博) Commit made by **Daniel Zhang (張道博)** on 2013-09-02T20:37:06-07:00
02 Sep 2013 17:37 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/eebf31bc3528fec0e7200343d9b27a84cf6ce90a>

| reporting works: #MSG-309 fixed

MSG-310 — write duplicate dropping test

MSG-312 — schedule automated retrieval & insertion

Comments

Daniel Zhang (張道博) Scheduled.
05 Sep 2013 15:34

MSG-313 — Provide persistent notification data storage

This is for the purpose of tracking automatic notifications.

Comments

Daniel Zhang (張道博) Commit made by **Daniel Zhang** (張道博) on 2013-08-28T19:09:36-07:00
28 Aug 2013 16:09 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/1c4ad342d890062a015255afd5d719f09740373f>

| adding notification history table: #MSG-313 In Progress

Daniel Zhang (張道博) Persistent storage implemented.
04 Sep 2013 13:29

MSG-315 — verify dz_monthly_energy_summary_for_nonpv_service_points makes correct use of MLH

The view should return readings that are specified by the MLH including meter changes if they exist.

MSG-316 — change definition of PV service point

PV service points are those that have either one or two PV meters as indicated in PVServicePointIDs. The definition and use may be incorrect. This definition has numerous view-based dependencies within the database.

MSG-318 — provide array-based access to readings

MSG-319 — enable weather data auto loading

Comments

Daniel Zhang (張道博) Enabled.
05 Sep 2013 15:34

MSG-320 — write last reported time to notification history

Comments

Daniel Zhang (張道博) Commit made by **Daniel Zhang** (張道博) on 2013-09-03T19:58:15-07:00
03 Sep 2013 16:58 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/e261c81291cc99008ace22573898b39243df5582>

| writing notification time: #MSG-320 fixed

MSG-321 — determine problem with email notification not being sent automatically

Comments

Daniel Zhang (張道博) Added PYTHONPATH to execution environment.
04 Sep 2013 14:40

MSG-322 — create installer for full local server install of MSG software

An installer script should be provided. This is to facilitate proper synchronization of locally installed code with the working repository.

Comments

Daniel Zhang (張道博) Commit made by **Daniel Zhang (張道博)** on 2013-09-18T20:20:52-07:00
18 Sep 2013 17:21 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/31822283d7ed5dc72d9021635a4ff085fb2ff5d5>

| working on setup: #MSG-322 In Progress

Daniel Zhang (張道博) Commit made by **Daniel Zhang (張道博)** on 2013-09-19T20:06:37-07:00
19 Sep 2013 17:06 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/7f6a85492e17b78ddf3203ee8e1a5f4bec2dde31>

| developing setup script: #MSG-322 In Progress

Daniel Zhang (張道博) Commit made by **Daniel Zhang (張道博)** on 2013-09-20T18:49:10-07:00
20 Sep 2013 15:49 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/06964b7d49f0f59dfa3b3b73ccfbc61ea93b7325>

| moving unit tests to root: #MSG-322 In Progress

Daniel Zhang (張道博) Commit made by **Daniel Zhang (張道博)** on 2013-09-20T19:21:23-07:00
20 Sep 2013 16:21 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/49b7b3dbe36fa1d221203bf50b0c938008272441>

| Adding long description: #MSG-322 fixed

MSG-323 — prevent retrieval of existing files

Existing files are not determined correctly for the script being started in arbitrary working directories.

Comments

Daniel Zhang (張道博) Commit made by **Daniel Zhang (張道博)** on 2013-09-04T20:12:30-07:00
04 Sep 2013 17:12 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/c4e5f4bfb6f2c4ce4d28dde7a0d26f4558e92ca0>

| existing files are handled correctly: #MSG-323 fixed

MSG-324 — determine problem with cron-based log messages not being sent

This is related to Postfix.

Comments

Daniel Zhang (張道博) Fixed by modifying Postfix config (/etc/postfix/main.cf).

05 Sep 2013 14:37

MSG-327 — add summary count of dupes

Comments

Daniel Zhang (張道博)
10 Sep 2013 16:16Commit made by **Daniel Zhang (張道博)** on 2013-09-10T19:16:11-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/7404891efbf6e564117bf653e7ab0f269411b6a5>

| added summary dupe counts: #MSG-327 fixed

MSG-328 — report weather data download results during report of inserts

Comments

Daniel Zhang (張道博)
12 Sep 2013 16:43Commit made by **Daniel Zhang (張道博)** on 2013-09-12T19:43:39-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/0c21ff0f1fe795fc7ab1241c0b9abb3b91aadf32>

| storing retrieval results: #MSG-328 In Progress

Daniel Zhang (張道博)
13 Sep 2013 14:44Commit made by **Daniel Zhang (張道博)** on 2013-09-13T17:44:43-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/b484b2088b306d918b247d7a5118353aa31e3401>

| reporting download results: #MSG-328 fixed

Daniel Zhang (張道博)
17 Sep 2013 13:02

Needs to be redone. Weather data download results are not getting used.

Daniel Zhang (張道博)
17 Sep 2013 15:52

Weather data results are verified to be reported.

MSG-329 — provide folder monitoring for automatic data processing

Comments

Daniel Zhang (張道博)
24 Sep 2013 16:04Commit made by **Daniel Zhang (張道博)** on 2013-09-24T19:04:38-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/82a88dc0174f2e7fa1c3e9f96c24681a94b0ad53>

| generating initial API: #MSG-329 In Progress

Daniel Zhang (張道博)
25 Sep 2013 16:35Commit made by **Daniel Zhang (張道博)** on 2013-09-25T19:35:07-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/643bb9810b909d6a2a733e0fc82f18f3f557faa2>

| added new data checking: #MSG-329 In Progress

Daniel Zhang (張道博)
03 Oct 2013 13:12

Folder monitoring has been implemented through this issue and #MSG-352, #MSG-351.

MSG-330 — Update egauge service installation to account for config change

Comments

Daniel Zhang (張道博) Installation in /usr/local/msg-egauge-service was updated.
13 Sep 2013 15:30

MSG-331 — only output duplicate counts to the concise log if duplicates are present

Comments

Daniel Zhang (張道博) Commit made by **Daniel Zhang** (張道博) on 2013-09-25T17:54:33-07:00
25 Sep 2013 14:54 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/3a2b0a98b6cf985a1dfac8c0a26b0b4f030998fc>

Preventing log output for final and intermediary concise logging where dupes are not present: #MSG-331 fixed

MSG-332 — determine a standard for a python enum type**MSG-333** — add timestamp to retrieval results

Comments

Daniel Zhang (張道博) Commit made by **Daniel Zhang** (張道博) on 2013-09-13T17:35:53-07:00
13 Sep 2013 14:44 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/e0d8e19ff01b76cd466cd7eb74f1b02cefcf7ead>

adding timestamp: #MSG-333 fixed

MSG-334 — determine effect of removal of cumulative count in angled brackets in the concise log

Comments

Daniel Zhang (張道博) Commit made by **Daniel Zhang** (張道博) on 2013-09-25T18:47:38-07:00
25 Sep 2013 15:47 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/c5cd8267a869e6eb332e6e0872c0761d7d2ff3c5>

removing cumulative count in final summary because it is redundant: #MSG-334 fixed

MSG-335 — update automation documentation for weather data loading**MSG-336** — provide support for multiple login profiles**MSG-338** — add msg egauge service to setup script

Comments

Daniel Zhang (張道博) Commit made by **Daniel Zhang** (張道博) on 2013-09-23T18:50:36-07:00
23 Sep 2013 15:51 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/f7ea087e45acaba3a9cbdec6072a0de3184aa732>

adding/updating configs: #MSG-338 fixed
#MSG-339 fixed

Daniel Zhang (張道博) Commit made by **Daniel Zhang** (張道博) on 2013-09-23T19:08:30-07:00

23 Sep 2013 16:08

<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/6b590aa6e0afa06873e1c8fd2e4787cec40c07e0>

| including msg egauge service: #MSG-338 fixed

MSG-339 — add sample egauge config

Comments

Daniel Zhang (張道博)
23 Sep 2013 15:51

Commit made by **Daniel Zhang (張道博)** on 2013-09-23T18:50:36-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/f7ea087e45acaba3a9cbdec6072a0de3184aa732>

| adding/updating configs: #MSG-338 fixed
 #MSG-339 fixed

Daniel Zhang (張道博)
23 Sep 2013 15:53

Commit made by **Daniel Zhang (張道博)** on 2013-09-23T18:53:08-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/2ef5a2a997cb3a18b5e7433a4ea0937782576482>

| add/update sample configs: #MSG-339 fixed
 #MSG-340 fixed

MSG-340 — add sample main config

Comments

Daniel Zhang (張道博)
23 Sep 2013 15:53

Commit made by **Daniel Zhang (張道博)** on 2013-09-23T18:53:08-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/2ef5a2a997cb3a18b5e7433a4ea0937782576482>

| add/update sample configs: #MSG-339 fixed
 #MSG-340 fixed

MSG-341 — provide archive directory for previously loaded data

Comments

Daniel Zhang (張道博)
25 Sep 2013 15:06

Commit made by **Daniel Zhang (張道博)** on 2013-09-25T18:06:38-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/d080cb0b5bb1aed6daf64cc15f75c7a669f551ac>

| added dirs; updated config and sample config: #MSG-342 fixed
 #MSG-341 fixed

MSG-342 — Provide location for bad data

Comments

Daniel Zhang (張道博)
25 Sep 2013 15:06

Commit made by **Daniel Zhang (張道博)** on 2013-09-25T18:06:38-07:00
<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/d080cb0b5bb1aed6daf64cc15f75c7a669f551ac>

added dirs; updated config and sample config: #MSG-342 fixed
#MSG-341 fixed

MSG-343 — remove debug output during data loading

Comments

Daniel Zhang (張道博) Data loading obeys the debug config option.
26 Sep 2013 16:12

MSG-344 — document testing mode

Comments

Daniel Zhang (張道博) <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/89975bf16cb3fb0dee37f17566e14e49f04b4b6a>
09 Oct 2013 16:50

MSG-345 — fix column error for 4913

egauge number = 4913
item = Date & Time
item = use [kW]
item = gen [kW]
item = Whole House [kW]
item = Refrigerator [kW]
item = Dryer [kW]
item = Washer [kW]
item = Stove Top [kW]
ERROR: nonmatching column: does not match

Comments

Daniel Zhang (張道博) Commit made by **Daniel Zhang (張道博)** on 2013-09-27T19:10:03-07:00
27 Sep 2013 16:10 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/1a2fb12684e46182df25af9e0cc69f6525ebc235>

adding columns: #MSG-345 fixed

MSG-346 — setup daily meco_v3 export

Comments

Daniel Zhang (張道博) Daily export was setup as a cron job using msg_db_exporter.py. It should be switched to a system-wide path ASAP.
30 Sep 2013 16:14

MSG-348 — document automatic processes using crontab

Comments

Daniel Zhang (張道博) <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/6a88c5e34757d64977e52b9026a1b001a27ba22e>
04 Dec 2013 13:09

MSG-349 — perform user-based install of MSG python code on SEP server

Future installation:

Install modules and scripts.

- Scripts should go to /usr/local/bin.
- Modules should go in /usr/local/lib.

Comments

Daniel Zhang (張道博)

02 Dec 2013 16:28

<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/bda8284dd7be1b9f731964ba591e9a76b80142b9>

MSG-350 — install google api client library for python

Comments

Daniel Zhang (張道博)

30 Sep 2013 16:31

Successfully installed using remote pip.

MSG-351 — be able to load MECO data from autoload location using the autoloader

Comments

Daniel Zhang (張道博)

01 Oct 2013 16:10

<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/b5063c3d39c0c04d9eadc8c1c61c8d752bb6c481>

MSG-352 — move autoloading data after loading

Comments

Daniel Zhang (張道博)

02 Oct 2013 13:13

<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/f54798b2da9d186435f7d31886ec605b9f6c6356>

MSG-353 — handle error case during autoloading

If data fails to load it should be moved to the invalid data storage area.

MSG-354 — Provide a locking mechanism on data being processed

Data being processed should not be accessible to any other processes.

Comments

Daniel Zhang (張道博)

03 Oct 2013 13:13

<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/daba9623676e3ec97a6e497286f4faa7c4e9716a>

MSG-355 — maintain copy of live autoloading status

GH readme image should be representative of the live status of the database.

MSG-356 — Test file locking

MSG-357 — Change performance time log messages to minute-seconds format

Comments

Daniel Zhang (張道博)

18 Oct 2013 13:26

<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/5b3bf553b74065a1b39fec35c00be99e487f9802>

MSG-358 — get executable scripts to install to bin path

Comments

Daniel Zhang (張道博)
04 Oct 2013 15:43

Scripts, as defined in the setup definition file, can be installed to bin using the `--home` option of install like so

```
python setup.py install --home=~/.test-install
```

Executable scripts are then installed in `~/.test-install/bin`

MSG-359 — determine method of integration for eGauge service Perl-based installer with Python setup

Comments

Daniel Zhang (張道博)
09 Oct 2013 16:45

The eGauge service has its own separate installer.

MSG-360 — add DB creation scripts to setup package

Comments

Daniel Zhang (張道博)
09 Oct 2013 16:43

<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/bf5cee817da6e1dbee0bac26e789e8d5d16df9c8>

MSG-361 — fix meco_xml_parser test

E2013-10-11 15:54:21,429 - meco_xml_parser - INFO - Testing Mode is ON.

```
=====
ERROR: testAllTableNamesArePresent (__main__.TestMECOXMLParser)
```

Traceback (most recent call last):

File "/Users/daniel/DZDevelopment/github-maui-smart-grid/test/test___meco_xml_parser.py", line 45, in testAllTableNamesArePresent

```
fileObject = open(self.p.filename, "rb")
```

IOError: [Errno 2] No such file or directory: '../test-data/meeco_v3-energy-test-data.xml'

```
=====
ERROR: testEveryElementIsVisited (__main__.TestMECOXMLParser)
```

Traceback (most recent call last):

File "/Users/daniel/DZDevelopment/github-maui-smart-grid/test/test___meco_xml_parser.py", line 35, in testEveryElementIsVisited

```
fileObject = open(self.p.filename, "rb")
```

IOError: [Errno 2] No such file or directory: '../test-data/meeco_v3-energy-test-data.xml'

Ran 3 tests in 2.498s

FAILED (errors=2)

MSG-362 — create unit test data set

Comments

Daniel Zhang (張道博)
21 Oct 2013 14:52

<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/422522cdd52a6561d827afc03c8f51e9344be5fd>

MSG-363 — correct column error for 4915

colAssoc = Garage AC [kW]garage_ac_kwRange.Usage [kW]range_usage_kwOven [kW]oven_kwWasher [kW]clotheswasher_kwgen [kW]gen_kwGrid [kW]grid_kwDHW [kW]dhw_kwRange [kW]range_kwDate & Time
dateTimeLarge AC [kW]large_ac_kwOven.Usage [kW]oven_usage_kwuse [kW]use_kwStove [kW]stove_kwRefrigerator [kW]refrigerator_kwDishwasher [kW]dishwasher_kwDryer.Usage [kW]dryer_usage_kwAC+ [kW]acplus_kwSolar Pump [kW]solarpump_kwFan [kW]fan_kwStove Top [kW]stove_kwLarge AC.Usage [kW]large_ac_usage_kwRest of House.Usage [kW]rest_of_house_usage_kwOven and Microwave [kW]oven_and_microwave_kwGarage AC.Usage [kW]garage_ac_usage_kwWhole House [kW]grid_kwRefrigerator.Usage [kW]refrigerator_usage_kwAC [kW]ac_kwSolar [kW]solarpump_kwWasher.Usage [kW]clotheswasher_usage_kwOven and Microwave+ [kW]oven_and_microwave_plus_kwDryer [kW]dryer_kw item = house [kW]
ERROR: nonmatching column: does not match

Comments

Daniel Zhang (張道博)
16 Oct 2013 13:05

Problem is still occurring.

Daniel Zhang (張道博)
16 Oct 2013 19:09

4911,4912,4913 are working.

Daniel Zhang (張道博)
17 Oct 2013 17:22

4915 is offline.

Daniel Zhang (張道博)
23 Oct 2013 15:47

The problem is no longer occurring at this time.

MSG-364 — suppress cron log output on no data found

Comments

Daniel Zhang (張道博)
16 Oct 2013 17:10

<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/2897de6ca69c6f9b426d23dbe3444d0afb08c23e>

MSG-365 — determine cause of invalid data processing for 4914

Comments

Daniel Zhang (張道博)
18 Oct 2013 15:31

Retrieval is timing out.

MSG-366 — correct column error for 4914

colAssoc = Range.Usage [kW]range_usage_kwWasher [kW]clotheswasher_kwGrid [kW]grid_kwDate & Time
dateTimeLarge AC [kW]large_ac_kwOven.Usage [kW]oven_usage_kwuse [kW]use_kwStove [kW]stove_kwSolar Pump [kW]solarpump_kwAC+ [kW]acplus_kwDryer.Usage [kW]dryer_usage_kwStove Top [kW]stove_kwFan [kW]fan_kwOven and Microwave [kW]oven_and_microwave_kwRest of House.Usage [kW]rest_of_house_usage_kwWhole House [kW]grid_kwRefrigerator.Usage [kW]refrigerator_usage_kwAC

```
[kW]ac_kwWasher.Usage [kW]clotheswasher_usage_kwGarage AC [kW]garage_ac_kwOven [kW]oven_kwgen
[kW]gen_kwDHW [kW]dhw_kwRange [kW]range_kwRefrigerator [kW]refrigerator_kwDishwasher
[kW]dishwasher_kwHouse [kW]house_kwLarge AC.Usage [kW]large_ac_usage_kwGarage AC.Usage
[kW]garage_ac_usage_kwSolar [kW]solarpump_kwOven and Microwave+ [kW]oven_and_microwave_plus_kwDryer
[kW]dryer_kw
item = Shop [kW]
ERROR: nonmatching column: does not match
```

Comments

Daniel Zhang (張道博)

22 Oct 2013 13:08

<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/0fda401abd313326a97db76e102812017edd7ed5>
MSG-367 — record successful egauge data operations in the database

The motivation for this are the failed loading of data sets that can go unnoticed for extended periods of time. Having away of monitoring these operations would be useful.

MSG-368 — Provide PDF form of software documentation**MSG-369** — Handle overflowing monospaced code blocks in latex**MSG-370** — Be able to write to cloud storage

Comments

Daniel Zhang (張道博)

23 Oct 2013 17:46

Write was successful.

MSG-371 — store persistent cloud authentication token

This is to eliminate the need for verification upon every upload invocation.

Comments

Daniel Zhang (張道博)

25 Oct 2013 17:30

<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/f24d782533be987b821ac3ca692a19453ba4afd5>
MSG-374 — provide notification of exported DBs**MSG-375** — have automatic daily export be mirrored to cloud storage

Comments

Daniel Zhang (張道博)

26 Oct 2013 02:27

<https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/0e02c82078f30c226e81ec6039fbc34651d19ac>
MSG-376 — parse upload results to determine success of upload**MSG-377** — fix exporter error

2013-10-27 18:30:01,743 - __main__ - INFO - Exporting meco_v3.

2013-10-27 18:45:22,037 - __main__ - INFO - Authorizing credentials.

Compressing meco_v3 using gzip.

Traceback (most recent call last):

```
File "/home/daniel/dzmbp-maui-smart-grid/src/msg_db_exporter.py", line 205, in <module>
    toCloud = True)
```

File "/home/daniel/dzmbp-maui-smart-grid/src/msg_db_exporter.py", line 106, in exportDB

self.uploadDBToCloudStorage('%s.sql.gz' % fullPath)

File "/home/daniel/dzmbp-maui-smart-grid/src/msg_db_exporter.py", line 136, in uploadDBToCloudStorage

http = self.googleAPICredentials.authorize(http)

AttributeError: 'NoneType' object has no attribute 'authorize'

Comments
Daniel Zhang (張道博) Error is still occurring.
28 Oct 2013 18:59

Daniel Zhang (張道博) <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/87c073ee774b4879dbe4fbd5717a7924f1d0604f>
29 Oct 2013 16:34

MSG-378 — add ability to record log messages within the logger object

Comments
Daniel Zhang (張道博) <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/32c13c3c0dc0249a4a2a87d74748a73003435845>
29 Oct 2013 16:34

MSG-379 — be able to report cloud storage free space

Comments
Daniel Zhang (張道博) <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/7b59e3230debea172731381403b38310c3532c63>
30 Oct 2013 22:13

MSG-380 — support symmetrically encrypted export

MSG-381 — fix logger error

2013-10-28 18:30:01,218 - __main__ - INFO - Exporting meco_v3.

Traceback (most recent call last):

File "/home/daniel/dzmbp-maui-smart-grid/src/msg_db_exporter.py", line 212, in <module>
toCloud = True)

File "/home/daniel/dzmbp-maui-smart-grid/src/msg_db_exporter.py", line 85, in exportDB
self.logger.log('Exporting %s.' % db)

File "/home/daniel/dzmbp-maui-smart-grid/src/msg_logger.py", line 107, in log
self.recording += msg

TypeError: cannot concatenate 'str' and 'NoneType' objects

Comments
Daniel Zhang (張道博) <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/32c13c3c0dc0249a4a2a87d74748a73003435845>
29 Oct 2013 16:34

MSG-383 — remove unused linux headers and linux images

Comments
Daniel Zhang (張道博) Removed using
29 Oct 2013 13:46

sudo apt-get remove linux-headers-\${SPECIFIER}
sudo apt-get remove linux-image-\${SPECIFIER}

MSG-384 — eliminate duplicate recorded log entries in the MSGLogger

Comments

Daniel Zhang (張道博) <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/238c3351db4d97900b9740eb30460c86036c349a>
 30 Oct 2013 14:07 <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/5a852330a47fd8880cfcfe5a7ffa0e4c594c5faf>

MSG-385 — report elapsed upload time

Comments

Daniel Zhang (張道博) <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/09c8cd78dfc0e246b97bb04727a64abc684d1eff>
 31 Oct 2013 17:36

MSG-386 — perform instantaneous delete of outdated files

Comments

Daniel Zhang (張道博) <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/7eb434d7747951a86d9fb233026a1d8c571ff0e7>
 04 Nov 2013 13:04

MSG-387 — remove pprint output & recording from automatic job report

Comments

Daniel Zhang (張道博) <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/09c8cd78dfc0e246b97bb04727a64abc684d1eff>
 31 Oct 2013 17:37

MSG-388 — verify uploaded file by md5 checksum

Comments

Daniel Zhang (張道博) <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/a0694a84e621fbe8d70e5f238495974afdc79049>
 04 Nov 2013 16:47

MSG-389 — retrieve md5sum of cloud-based files

Comments

Daniel Zhang (張道博) <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/a0694a84e621fbe8d70e5f238495974afdc79049>
 04 Nov 2013 16:47

MSG-390 — add delete outdated to automatic export process

Comments

Daniel Zhang (張道博) <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/ec2ae38c3f880d371e70421511e2bfb8e1dac848>
 06 Nov 2013 13:54

MSG-391 — fix md5 checksum verification problem

2013-11-04 17:34:16,624 - __main__ - INFO - Exporting meco_v3.
 2013-11-04 17:37:49,752 - __main__ - INFO - Compressing meco_v3 using gzip.
 2013-11-04 17:49:17,336 - __main__ - DEBUG - full path /home/daniel/msg-db-dumps
 2013-11-04 17:49:17,336 - __main__ - DEBUG - Uploading 2013-11-04_171116_meco_v3.sql.gz.

2013-11-04 17:49:17,358 - __main__ - INFO - Authorizing credentials.
 2013-11-04 17:49:17,358 - __main__ - INFO - Authorized.
 2013-11-04 17:55:35,506 - __main__ - DEBUG - title: 2013-11-04_171116_meco_v3.sql.gz
 2013-11-04 17:55:35,506 - __main__ - DEBUG - local md5: 568d25692144a4ac937def74a6cf369b
 2013-11-04 17:55:35,859 - __main__ - DEBUG - remote md5: 8fa4825dc3362574f4624a14bc0caca7
 2013-11-04 17:55:35,860 - __main__ - DEBUG - Failed MD5 checksum verification.

Comments

Daniel Zhang (張道博) <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/15945fcd7113f5319b69c4455d717e60e652f807>
 05 Nov 2013 17:27

MSG-392 — create db export unit test file

Comments

Daniel Zhang (張道博) <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/ab6279ba4957f9e59e156d1b5d4b0cc9c922d6a5>
 05 Nov 2013 17:28

MSG-393 — Provide status notification during loading process of MECO energy data

Ref: meco_data_autoloader.py

MSG-394 — fix logger error

Traceback (most recent call last):

```
File "/home/daniel/dzmbp-maui-smart-grid/src/insertMECOEnergyData.py", line 164, in <module>
    inserter = Inserter()
File "/home/daniel/dzmbp-maui-smart-grid/src/insertSingleMECOEnergyDataFile.py", line 47, in __init__
    self.parser = MECOXMLParser(testing)
File "/home/daniel/dzmbp-maui-smart-grid/src/meco_xml_parser.py", line 38, in __init__
    self.logger = MSGLogger(__name__, 'silent')
```

File "/home/daniel/dzmbp-maui-smart-grid/src/msg_logger.py", line 87, in __init__
 self.logger.setLevel(self.loggerLevel)

```
File "/usr/lib/python2.7/logging/__init__.py", line 1116, in setLevel
    self.level = _checkLevel(level)
File "/usr/lib/python2.7/logging/__init__.py", line 190, in _checkLevel
    raise TypeError("Level not an integer or a valid string: %r" % level)
TypeError: Level not an integer or a valid string: None
```

Comments

Daniel Zhang (張道博) <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/8ef6749080cba02a646cb4b2dedc10ac20e1f401>
 06 Nov 2013 13:56

MSG-395 — fix reporting of seconds in elapsed loading time

It's appearing as Wall time = 11 min 655.33 s.

MSG-396 — increase export queue timespan to 48 h

Comments

Daniel Zhang (張道博) Timespan has been set. Software install needs to be refreshed for the setting to be used.

Comments

18 Nov 2013 14:15

Daniel Zhang (張道博) The 48 h timespan is being used.

03 Dec 2013 17:01

MSG-397 — provide notification upon failed data loading**MSG-399** — switch automated processes to user-based install

Comments

Daniel Zhang (張道博) Processes were switched within the crontab.

03 Dec 2013 17:02

MSG-401 — Provide 1.0.0 release archive**MSG-402** — test scheduled msg_db_exporter for user-based install

Comments

Daniel Zhang (張道博) New exporter script works from user-based install.

12 Nov 2013 13:57

MSG-403 — test scheduled autoload meco data for user-based install

Comments

Daniel Zhang (張道博) Tested using ~ in the crontab & in the data_load_command var in the msg config.

08 Nov 2013 17:44

MSG-404 — extract script from msg db exporter

This is needed for the installer.

Comments

Daniel Zhang (張道博) <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/78add0632886d5372be035ebc0611fa299a1387>

12 Nov 2013 13:59

MSG-405 — create install script

- Generate dist archive.
- Install using current code base.

Comments

Daniel Zhang (張道博) <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/c0ffd963e7101946f9b7ec3e67cf0e2b9060faf9>

27 Nov 2013 16:55

MSG-406 — add temp & humidity data from 2013_11_14_scada

Comments

Daniel Zhang (張道博) <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/4d2c5706cb0901e80b89033d5d0e7a466ee6aa80>

19 Nov 2013 10:52

Daniel Zhang (張道博) Runtime: 19 min

19 Nov 2013 10:56

MSG-408 — generate aggregated irradiance data for 15 min intervals

Comments

Daniel Zhang (張道博) <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/a3a04a4260fa6d035cb9733394d119534b5f8b4c>
19 Nov 2013 10:57

MSG-409 — insert aggregated irradiance data to a table

Comments

Daniel Zhang (張道博) <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/7c0d27e2c14404e0d2dc91ce93cc25938dd3ba0c>
19 Nov 2013 10:57

MSG-410 — provide db storage report**MSG-411** — average scada weather data at 15 min

Comments

Daniel Zhang (張道博) <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/54fd6a42f22c4d30edde4134e170908f7f13d3e4>
20 Nov 2013 13:11

MSG-413 — be able to import MSG classes in a symmetric manner as standard library classes

Comments

Daniel Zhang (張道博) This is based around using the "home scheme" vs the system scheme, iirc.
04 Dec 2013 18:17

MSG-414 — generate view with uniform intervals for irradiance averages

Comments

Daniel Zhang (張道博) last commit: <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/e7c7d58f6d5b497bdb53c2bf2fcf0bb8160d602c>
25 Nov 2013 13:33

MSG-415 — restore noaa weather view removed by sql script error**MSG-416** — perform system-based install of MSG python code on SEP server**MSG-417** — generate automatic documentation from source code**MSG-418** — ensure python path specification is correct during install

Installer is modifying the path relative to the site. This can result in an unwanted python binary path spec.

Comments

Daniel Zhang (張道博) Scripts installed to bin have an incorrect python binary path.
02 Dec 2013 16:31

Daniel Zhang (張道博) Verified that /usr/bin/python is being used on SEP server during use of install-msg.py.
02 Dec 2013 17:55

MSG-419 — test ability to perform a user-based software update on SEP server where source code is modified

Comments

Daniel Zhang (張道博) Modified code was updated using the custom installer.
03 Dec 2013 17:17

MSG-420 — have installer provide a default path along with software version
The default path should have the form Maui-Smart-Grid-x.x.x.

Comments

Daniel Zhang (張道博) Software version is obtained from setup.py.
02 Dec 2013 15:17

Install path is obtained from a command line arg.

Daniel Zhang (張道博) Need to add the package name.
02 Dec 2013 15:58

Daniel Zhang (張道博) <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/bda8284dd7be1b9f731964ba591e9a76b80142b9>
02 Dec 2013 16:28

MSG-421 — have tar extract use tarfile

Comments

Daniel Zhang (張道博) <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/35d433c1e80d4ad3c02f3d0a5d270c10da7b5d0d>
02 Dec 2013 13:13

MSG-422 — support install of msg egauge software using install-msg.py

MSG-423 — add power event data to meco_v3

Comments

Daniel Zhang (張道博) Data added to PowerMeterEvents.
11 Dec 2013 13:47

MSG-424 — create new power meter event table

Comments

Daniel Zhang (張道博) <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/46dd201cc0e98d1867145280748eeeb7873a31d2>
09 Dec 2013 13:55

MSG-425 — create power meter event insert script

Comments

Daniel Zhang (張道博) <https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/29c46d3c76e94c35f5dbef294f4aa526f2ceb3b2>
11 Dec 2013 13:47

MSG-426 — Determine a method of reporting MSG software prerequisites

MSG-427 — provide documentation for automatic software distribution updating