Daniel Zhang (張道博) Issues Report

State: {In Progress}, Open, Submitted, {To be discussed} ,Reopened ,
{Can't Reproduce} ,Duplicate ,Fixed ,{Won't fix} ,Incomplete
,Obsolete ,Verified ,New sort by: updated

INV-26 — provide time-based exclusion of source data
Find the max timestamp in source data and compare it to the max timestamp in the DB.

Daniel Zhang (張道博) 15 Sep 2014 11:15	https://github.com/Hawaii-Smart-Energy-Project/Smart-Grid-PV-Inverter/commit/3ff79fc1b7aff0a0ed4f965741dca7129101fc7f

INV-28 — provide notifications for new data loaded

availex-1 — move config parameters to separate config
Using SEK Configer

Daniel Zhang (張道博) 06 Sep 2014 11:03	https://github.com/Hawaii-Smart-Energy-Project/Available-Exports/commit/afcc2f2bd97f4c72df7dbb61471703e5baa96b94

availex-3 — remove unused items from service
* sqlite support

availex-2 — Add authentication to post operation for available files

SEK-5 — merge MSG notifier

Daniel Zhang (張道博) 19 Aug 2014 13:37	https://github.com/Hawaii-Smart-Energy-Project/Smart-Energy-Kit/commit/716b2a9330f7764f90532558b81cf8040fae0298#diff-d41d8cd98f00b204e9800998ecf8427e

INV-18 — load all available data

Daniel Zhang (張道博) 05 Sep 2014 11:19	Available data has been loaded.

INV-24 — solve deadlock on loading of 001EC60519E9

Daniel Zhang (張道博) 28 Aug 2014 10:44	https://github.com/Hawaii-Smart-Energy-Project/Smart-Grid-PV-Inverter/commit/e48f23f41f7cfe245ba5f477149f0017774f9d61
Daniel Zhang (張道博) 28 Aug 2014 10:55	Not exiting on SQL errors or the use of 'STOP' in the queue may have solved the deadlock.

INV-4 — determine if all data will fit current model

Daniel Zhang (張道博)	Data in initial loading works fine.

INV-21 — create trigger function for partitioning data upon insert

INV-6 — Data Loading

INV-27 — determine if a new meter is present

INV-25 — provide check on source record count vs data loaded count

INV-20 — revise multiprocessor loading to use more joinable queue

Daniel Zhang (張道博) 26 Aug 2014 17:11	https://github.com/Hawaii-Smart-Energy-Project/Smart-Grid-PV-Inverter/commit/39040569428327034eaac3d259a533e930ebc40e

INV-23 — add foreign key to individual partitions

Daniel Zhang (張道博) 26 Aug 2014 17:11	https://github.com/Hawaii-Smart-Energy-Project/Smart-Grid-PV-Inverter/commit/57299c13a31a959f294f29c0afbff09232e536bb

INV-19 — create separate meter tables as partitions

Daniel Zhang (張道博) 26 Aug 2014 14:27	https://github.com/Hawaii-Smart-Energy-Project/Smart-Grid-PV-Inverter/commit/221629597d528d24bda76235c5623fdaa3ef969f

INV-22 — create trigger for calling trigger function

INV-9 — implement multiprocessor loading

Daniel Zhang (張道博) 23 Aug 2014 13:08	https://github.com/Hawaii-Smart-Energy-Project/Smart-Grid-PV-Inverter/commit/ec0812ef2df437139ae6785bcd0ed029363a4c02#diff-d41d8cd98f00b204e9800998ecf8427e

INV-16 — change make new meter to once per multi file loading instance

Daniel Zhang (張道博) 23 Aug 2014 16:50	https://github.com/Hawaii-Smart-Energy-Project/Smart-Grid-PV-Inverter/commit/4ff3af35152c990ccacb7654477f32bffadb2117

INV-15 — handle duplicate meter creation error

Daniel Zhang (張道博) 23 Aug 2014 16:49	https://github.com/Hawaii-Smart-Energy-Project/Smart-Grid-PV-Inverter/commit/4ff3af35152c990ccacb7654477f32bffadb2117

INV-14 — skip over bad data records

Daniel Zhang (張道博) 23 Aug 2014 13:07	https://github.com/Hawaii-Smart-Energy-Project/Smart-Grid-PV-Inverter/commit/eed47204c3f2a22cd0079b37a686019cb399e739#diff-d41d8cd98f00b204e9800998ecf8427e

INV-11 — use latest record when encountering duplicates

Daniel Zhang (張道博)
22 Aug 2014 22:23

https://github.com/Hawaii-Smart-Energy-Project/Smart-Grid-PV-Inverter/commit/956fcb3ab3f2ba1e8cd4b5b1396e0b9b1af589d8

INV-7 — create data loader

Daniel Zhang (張道博)
22 Aug 2014 12:25

https://github.com/Hawaii-Smart-Energy-Project/Smart-Grid-PV-Inverter/commit/09f2f22c43b8d12f483f696244ed984b17878a07#diff-d41d8cd98f00b204e9800998ecf8427e

INV-2 — perform insertion of meter data

Daniel Zhang (張道博)
22 Aug 2014 12:25

https://github.com/Hawaii-Smart-Energy-Project/Smart-Grid-PV-Inverter/commit/09f2f22c43b8d12f483f696244ed984b17878a07#diff-d41d8cd98f00b204e9800998ecf8427e

INV-8 — process existing meter names from folder names

Daniel Zhang (張道博)
21 Aug 2014 19:43

https://github.com/Hawaii-Smart-Energy-Project/Smart-Grid-PV-Inverter/commit/c964158ffd09167f99748edde19afd2873a186d0#diff-d41d8cd98f00b204e9800998ecf8427e

INV-3 — provide way of automatically adding meters when new meters are encountered

Daniel Zhang (張道博)
23 Aug 2014 16:51

https://github.com/Hawaii-Smart-Energy-Project/Smart-Grid-PV-Inverter/commit/9f286b6652070c9bd474c1ca236bb75f4259ecf1

INV-13 — log duplicate data records

INV-12 — log bad data records

SEK-8 — fix connector error

Traceback (most recent call last):
  File "/home/daniel/Maui-Smart-Grid-1.0.0/bin/reportExportSummary.py", line 31, in <module>
    ExportSummaryReporter().sendCurrentExportSummary()
  File "/home/daniel/Maui-Smart-Grid-1.0.0/bin/reportExportSummary.py", line 20, in __init__
    self.exporter = MSGDBExporter()
  File "/home/daniel/Maui-Smart-Grid-1.0.0/lib/python/msg_db_exporter.py", line 97, in __init__
    self.notifier = SEKNotifier()
  File "/usr/local/lib/python2.7/dist-packages/sek/notifier.py", line 70, in __init__
    raise Exception("No connector available.")
Exception: No connector available.

Daniel Zhang (張道博)   Fixed by updating SEK.
07 Aug 2014 18:21

MSG-373 — Cloud Export

MSG-590 — provide install option for SEK

MSG-337 — Installer

SEK-4 — merge MSG logger

Daniel Zhang (張道博) 04 Aug 2014 17:18	Verified merge. https://github.com/dz1111/Maui-Smart-Grid/commit/8379ca54b662a880faccea0d56530fc9c393109d

SEK-7 — test system install of SEK

Daniel Zhang (張道博) 04 Aug 2014 16:45	Install is made to /usr/local/lib/dist-packages/sek.

SEK-1 — create system-level installer for SEK

Daniel Zhang (張道博) 04 Aug 2014 16:44	https://github.com/Hawaii-Smart-Energy-Project/Smart-Energy-Kit/commit/0f547f6f1a5941581223bfd31c3a60bd3ea6b687

MSG-589 — change instances of notifier to use new SEKNotifier args instead of the project-dependent config file

MSG-575 — Code Maintenance

MSG-588 — add installing SEK to docs

MSG-347 — Documentation

MSG-432 — test installer running in update mode for the case when a file is removed from the distribution

If a file is removed from the distribution, will that file be uninstalled from an active installation?

Update mode is implemented by install-msg.py.

Daniel Zhang (張道博) 31 Jul 2014 11:37	The case where a file is renamed is handled by the installer during an update. The affected file within an active installation is not duplicated but correctly renamed.
Daniel Zhang (張道博) 04 Aug 2014 16:54	Changing a name and then re-installing with python setup.py install results in the previously installed name still being present. It is not automatically replaced. This was found to be true for the SEK installer.

MSG-446 — provide aggregated weekly status report of exports via notifications

Daniel Zhang (張道博)　　https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/pull/25

31 Jul 2014 13:50

SEK-6 — merge MSG python util

SEK-3 — merge MSG file util

MSG-587 — switch to SEK python util

MSG-586 — switch to SEK file util

MSG-585 — switch to SEK notifier

MSG-584 — switch to SEK logger

MSG-583 — improve use of exceptions

This is for the purpose of eliminating generic exceptions.

Specific, standard exceptions should be used as much as possible.

Custom exceptions should be created where no suitable standard exists.

Changes should be logged to this issue.

MSG-582 — change string based datetimes to datetime type

For the purpose of providing greater type safety. Changes should be logged to this issue.

MSG-581 — change all string based types to Enum types

For the purpose of providing greater type safety. Changes should be logged to this issue.

Daniel Zhang (張道博)　　https://github.com/dz1111/Maui-Smart-

28 Jul 2014 22:10　　Grid/commit/6c7346136540de5c418ec2b535a4e77a7c5e3eca

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Daniel Zhang (張道博)　　https://github.com/dz1111/Maui-Smart-

29 Jul 2014 13:29　　Grid/commit/86d77dc5a320530173c3845702aac78999012ff0

Daniel Zhang (張道博)　　https://github.com/dz1111/Maui-Smart-

29 Jul 2014 13:30　　Grid/commit/c2acb0a71736544687449863fe0747f0b0a4128f

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SEK-2 — port aggregator module to SEK

INV-1 — create DB schema for meter data

Daniel Zhang (張道博)　　https://github.com/Hawaii-Smart-Energy-Project/Smart-Grid-PV-

22 Jul 2014 19:38　　Inverter/commit/98a8ab9a5fc286a0d0d3770fc93375aaabe2e040

INV-5 — Testing

MSG-580 — determine/fix reason for duplicate notification during loading

MSG-156 — MECO Data Loading

MSG-579 — determine/fix missing script error during loading

MSG-565 — change automatic insert script to be the one that is in the active installation

Daniel Zhang (張道博) 11 Jul 2014 13:18	Reviewed all instances of the insert script and removed those that should not be used.

MSG-545 — finish aggregator test_month_starts_and_ends

Daniel Zhang (張道博) 14 Jul 2014 11:48	https://github.com/dz1111/Maui-Smart-Grid/commit/9062ed752663ddd7063e35e6a1b2b956906cb806

MSG-564 — identify cause of meco_v3 upload
Full details:

2014-07-01 18:58:43,202 - msg_db_exporter - DEBUG - tdelta:1:36:19.037272, fname:2014-07-01_070702_meco_v3.sql.gz

Daniel Zhang (張道博) 02 Jul 2014 18:29	This appears to be a standard export that may be as a single instance due to an interruption or failure in the remainder of the export operation.
Daniel Zhang (張道博) 11 Jul 2014 13:21	An additional upload is no longer occurring.

MSG-578 — convert print statements to use print function
Changes should be added to this issue.

MSG-577 — convert all substitutions to use format()
Changes should be added to this issue.

Daniel Zhang (張道博) 12 Jul 2014 12:36	https://github.com/dz1111/Maui-Smart-Grid/commit/db13e7fe29eb891885d9ecb9466a1092b0b1a61f

MSG-576 — convert map instances to use list comprehensions as necessary

MSG-528 — update docs for config files

Daniel Zhang (張道博) 09 Jul 2014 14:46	https://github.com/dz1111/Maui-Smart-Grid/commit/7c902d5518737bb31cfbc3b3bdb19c9ab616ba75

MSG-568 — review config symbols and change where necessary to set template value names to their key names
Example:

meco_new_data_path=${MECO_AUTOLOAD_DATA_PATH}

changes to

meco_autoload_data_path=${MECO_AUTOLOAD_DATA_PATH}

A secondary goal is that names will serve as documentation.

Daniel Zhang (張道博)	https://github.com/dz1111/Maui-Smart-Grid/commit/946ed8fca8c0e192e57552c729d063c0073bdc77
09 Jul 2014 14:47	

MSG-574 — create test capable of evaluating data insertion in test_meco after an autoload by autoloadNewMECOData.py
A fresh instance of test_meco should be generated for each call to this test.

MSG-266 — Testing

MSG-566 — determine reason for two notifications during automatic data loading

Daniel Zhang (張道博)	There is a call to the incorrect insert script. This is related to the incorrect script observed in #MSG-565.
10 Jul 2014 13:52	

MSG-567 — provide automatic substitutions for the config file
This is for the purpose of providing a config file template that can be easily transferred to a production system with all of the correct values.

Each substitution key in this file will correspond to the substitutions used in the config file template.

MSG-481 — Data Aggregation

MSG-572 — automatically send notifications when exceptions occur during automated operations

MSG-56 — Notifications

MSG-571 — provide class to validate every site config value

MSG-570 — finalize notifier tests
Review and revise tests such that they are sufficient for automatic testing.

MSG-569 — provide unit test to verify all config file settings

MSG-553 — finish test_delete_out_dated_files

Daniel Zhang (張道博)	During testing, tdelta is -1 day. Not sure why this is:
01 Jul 2014 19:06	

2014-07-01 19:04:45,127 - __main__ - INFO: outdated:
2014-07-01 19:04:45,563 - msg_db_exporter - DEBUG - tdelta:-1 day,
14:00:04.080489, fname:meco_v3_test_data.sql.gz
2014-07-01 19:04:45,563 - msg_db_exporter - DEBUG - tdelta:1:42:21.398688,
fname:2014-07-01_070702_meco_v3.sql.gz
2014-07-01 19:04:45,563 - msg_db_exporter - DEBUG - tdelta:1 day,
0:55:06.521843, fname:2014-06-30_080818_biahouse.sql.gz
2014-07-01 19:04:45,563 - msg_db_exporter - DEBUG - tdelta:1 day,
0:56:34.142968, fname:2014-06-30_080736_sinclair.sql.gz
2014-07-01 19:04:45,564 - msg_db_exporter - DEBUG - tdelta:1 day,

	0:57:14.848090, fname:2014-06-30_075754_kuykendall.sql.gz ...
Daniel Zhang (張道博) 02 Jul 2014 18:34	The -1 day tdelta is normal behavior when the tdelta is within the same day.
Daniel Zhang (張道博) 02 Jul 2014 18:34	https://github.com/dz1111/Maui-Smart-Grid/commit/ecfdba4ef8571b9bdaccbfd652ea000fc642218e

MSG-532 — prevent deleting of nontesting export files during testing of delete outdated

Daniel Zhang (張道博) 20 Jun 2014 15:46	There is a boolean param on export db for delete outdated. This method of handling testing, using a testing parameter, has been deprecated due to the overhead of maintaining an additional state on the associated operations.
Daniel Zhang (張道博) 02 Jul 2014 18:30	Changed deletion to only touch test data.
Daniel Zhang (張道博) 02 Jul 2014 18:31	https://github.com/dz1111/Maui-Smart-Grid/commit/624e9781a532c471b7b886ffaea130a270a408fd

MSG-14 — check for duplicates on the register branch

Daniel Zhang (張道博) 25 Jun 2014 14:08	Covered by MECODupeChecker.registerBranchDupeExists.

MSG-3 — Data Insertion

MSG-563 — have a function that returns whether or not testing can be run in sudo mode for tests requiring sudo

signature:

sudoTestingAvailable:Boolean

In general, this requires testing to performed on the server.

MSG-558 — provide option for running nonsudo tests only in exporter tests

MSG-562 — automatically remove stray remnants of uploaded cloud test data

Stray files can exist due to conditions such as errors or network failures during testing.

Daniel Zhang (張道博) 30 Jun 2014 15:52	Improved delete fn. https://github.com/dz1111/Maui-Smart-Grid/commit/aa31b1556a94b276d8c726db2807e0fad2d0daff

MSG-410 — provide db storage report

Report the number of records along with their storage allocation for all data types.

MSG-560 — provide unit test(s) verifying correct handling of failed MECO data during auto loading

MSG-426 — Determine a method of reporting MSG software prerequisites

Daniel Zhang (張道博)	Addressed in #MSG-498.
27 Jun 2014 13:34	

MSG-395 — fix reporting of seconds in elapsed loading time

It's appearing as Wall time = 11 min 655.33 s.

Daniel Zhang (張道博)	https://github.com/dz1111/Maui-Smart-
26 Jun 2014 14:40	Grid/commit/5112e4173eeb01f1185cfd6c2b8c44ebbc6613ce

MSG-561 — provide unit test for full install of MSG software including all dependencies

Install should made to a temporary path that is removed upon completion and within a virtual environment established by virtualenv.

MSG-498 — change external dependencies to pip compatible format

Davey Wilkie	The approach I would take would be to write a "requirements.txt", and have the
25 Jun 2014 11:27	install-msg.py script invoke pip to install all the external dependencies declared in it. Does this seem like the best way to do this? I'll go ahead and get started if so. Otherwise, please do let me know a better way.
Daniel Zhang (張道博)	A requirements file would be sufficient. I prefer not to have the dependencies
26 Jun 2014 15:19	installed by default at this time. Having them installed via a separate command-line option would be viable. The requirements file should be added to the root directory of the repository.

MSG-367 — record successful egauge data operations in the database and report failures

The motivation for this is that failed loading of data sets can go unnoticed for extended periods of time. Having a way of monitoring these operations would be useful.

MSG-393 — Provide status notification during loading process of MECO energy data

Ref: meco_data_autoloader.py

MSG-129 — handle plot failure case during loading

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

Daniel Zhang (張道博)	Commit made by **Daniel Zhang (**張道博**)** on *2013-06-05T19:21:01-07:00*
05 Jun 2013 16:21	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/99b173c563006e42bded0ffdaa420126e9d4f295
	generating error on plot failure: #MSG-129 fixed

MSG-383 — remove unused linux headers and linux images

Daniel Zhang (張道博)	Removed using

```
sudo apt-get remove linux-headers-${SPECIFIER}
sudo apt-get remove linux-image-${SPECIFIER}
```

MSG-512 — check for the existence of new data to be aggregated

Daniel Zhang (張道博)   https://github.com/dz1111/Maui-Smart-
30 Mar 2014 12:19   Grid/commit/d1225949b26f9517b72edd4028c71d6980b69585

MSG-219 — have the capability to remove event branches that do not have event data
This is for the purpose of conserving space and maintaining query efficiency in the production database.

MSG-218 — have the capability to remove reading branches that do not have reading data
This is for the purpose of conserving space and maintaining query efficiency in the production database.

MSG-217 — have the capability to remove register branches that do not have register data
This is for the purpose of conserving space and maintaining query efficiency in the production database.

MSG-310 — write duplicate dropping test for MECO readings

MSG-559 — provide normalized meter location history
MLH attributes will be keyed to to their appropriate relations.

MSG-471 — Change logger types to the enumeration type used by the Python standard library
Additional support should be provided for a SILENT type if it is not already present.

MSG-355 — maintain copy of live autoloading status
GH readme image should be representative of the live status of the database.

This requires a separately hosted image that can be updated via http post or similar protocol.

MSG-356 — Test file locking used for MECO data loading
When MECO data is being loaded into the database, can those files be modifed or deleted? The answer should be no due to the file lock.

File locking is implemented by filelock.py.

MSG-353 — handle error case during autoloading
If data fails to load it should be moved to the invalid data storage area.

The path for invalid data is given by the site config as MECO Autoload -> meco_autoload_failures_path.

MSG-260 — raise exception on unmatched logger type

Daniel Zhang (張道博)   https://github.com/dz1111/Maui-Smart-
25 Jun 2014 15:55   Grid/commit/a518bc87421ac607ba7ae0d2683166a69ba2df61

MSG-476 — forward critical errors via email

Daniel Zhang (張道博)	Errors are being handled sufficiently for each component in the overall system.
25 Jun 2014 14:12	

MSG-216 — Database Maintenance

MSG-556 — generate static test db for export testing

MSG-474 — change cloud access credentials

MSG-475 — write documentation for cloud access credential generation

MSG-368 — Provide PDF form of software documentation

MSG-555 — revise awkward implementation and usage of fileIDForFileName

Daniel Zhang (張道博)	https://github.com/dz1111/Maui-Smart-Grid/commit/a3b2acbce25f54d7a3476926d20368d8a6f33570
23 Jun 2014 14:56	

MSG-557 — delete exported testing db used by test_export_db

Daniel Zhang (張道博)	https://github.com/dz1111/Maui-Smart-Grid/commit/39e123bed80a6b2818e30bb22ccf1779990bb849
20 Jun 2014 17:39	

MSG-504 — add filename reporting to verify delete outdated

Daniel Zhang (張道博)	https://github.com/dz1111/Maui-Smart-Grid/commit/48076bc323df6803a945ee83cb482a719acd2f65
16 Jun 2014 14:56	
Daniel Zhang (張道博)	https://github.com/dz1111/Maui-Smart-Grid/commit/39e123bed80a6b2818e30bb22ccf1779990bb849
20 Jun 2014 17:38	

MSG-549 — finish test_dump_exclusions_dictionary

Daniel Zhang (張道博)	https://github.com/dz1111/Maui-Smart-Grid/commit/4abb590c331d40be47d01638630e8b358b27e6f3
16 Jun 2014 14:39	

MSG-554 — implement retry count on add readers

Daniel Zhang (張道博)	https://github.com/dz1111/Maui-Smart-Grid/commit/05b89f82a2a2a6f0a8349a75eb8a179ba875085c
16 Jun 2014 15:47	

MSG-552 — provide support for retry count in exportDB for uploading files

Daniel Zhang (張道博)	This will use: export_retry_count: Integer.
13 Jun 2014 16:05	
Daniel Zhang (張道博)	https://github.com/dz1111/Maui-Smart-Grid/commit/33fd2562fdb15af587a7e90835f6652af73457e1
16 Jun 2014 15:14	

MSG-551 — activate export log entries for completed exports

Daniel Zhang (張道博)	https://github.com/dz1111/Maui-Smart-Grid/commit/38eb085333075e3834b33533179abb967b1b2dc0
13 Jun 2014 15:30	

MSG-550 — insert log entries into export history after successful uploading

Daniel Zhang (張道博)	https://github.com/dz1111/Maui-Smart-Grid/commit/aef5a48665b42efea3b7c942762b976fe1fdea36
13 Jun 2014 13:44	
Daniel Zhang (張道博)	https://github.com/dz1111/Maui-Smart-Grid/commit/1c2d5a515fe434f8f2897a7e634836eb1c75e576
13 Jun 2014 13:44	

MSG-547 — provide support for evaluating an exclusion dictionary to avoid exporting large static data sets unnecessarily

Proposed form:

{DB: ['t1', 't2', 't3']}

Daniel Zhang (張道博)	https://github.com/dz1111/Maui-Smart-Grid/commit/e0788e6a0d35ab1a541e1805dca6509ba45db8e4
02 Jun 2014 11:21	

MSG-544 — remove split parts after upload

Daniel Zhang (張道博)	https://github.com/dz1111/Maui-Smart-Grid/commit/9c64e91275f75b5268b96eedbe6cba9922258baa
02 Jun 2014 11:19	
Daniel Zhang (張道博)	Second time fixing:
02 Jun 2014 11:19	https://github.com/dz1111/Maui-Smart-Grid/commit/8a530165736f20943bd307f24a5e527ce96a66bc

MSG-546 — handle http exception during upload

2014-05-30 00:09:01,362 - msg_db_exporter - INFO - Uploading 2014-05-29_214100_meco_v3.sql.gz.0.
2014-05-30 00:09:01,495 - msg_db_exporter - ERROR - Exception while uploading 2014-05-29_214100_meco_v3.sql.gz.0: .
Traceback (most recent call last):
  File "/home/daniel/Maui-Smart-Grid-1.0.0/bin/exportDBsToCloud.py", line 66, in <module>
    deleteOutdated = True)
  File "/home/daniel/Maui-Smart-Grid-1.0.0/lib/python/msg_db_exporter.py", line 247, in exportDB
    testing = testing)
  File "/home/daniel/Maui-Smart-Grid-1.0.0/lib/python/msg_db_exporter.py", line 421, in uploadFileToCloudStorage
    if not self.__verifyMD5Sum(fullPath, self.fileIDForFileName(myFile)):
  File "/home/daniel/Maui-Smart-Grid-1.0.0/lib/python/msg_db_exporter.py", line 671, in fileIDForFileName
    for item in self.cloudFiles['items']:
  File "/home/daniel/Maui-Smart-Grid-1.0.0/lib/python/msg_db_exporter.py", line 54, in cloudFiles
    self._cloudFiles = self.driveService.files().list().execute()

File "/usr/local/lib/python2.7/dist-packages/oauth2client/util.py", line 132, in positional_wrapper
  return wrapped(*args, **kwargs)
File "/usr/local/lib/python2.7/dist-packages/apiclient/http.py", line 716, in execute
  body=self.body, headers=self.headers)
File "/usr/local/lib/python2.7/dist-packages/oauth2client/util.py", line 132, in positional_wrapper
  return wrapped(*args, **kwargs)
File "/usr/local/lib/python2.7/dist-packages/oauth2client/client.py", line 494, in new_request
  self._refresh(request_orig)
File "/usr/local/lib/python2.7/dist-packages/oauth2client/client.py", line 663, in _refresh
  self._do_refresh_request(http_request)
File "/usr/local/lib/python2.7/dist-packages/oauth2client/client.py", line 682, in _do_refresh_request
  self.token_uri, method='POST', body=body, headers=headers)
File "/usr/local/lib/python2.7/dist-packages/httplib2/__init__.py", line 1570, in request
  (response, content) = self._request(conn, authority, uri, request_uri, method, body, headers, redirections, cachekey)
File "/usr/local/lib/python2.7/dist-packages/httplib2/__init__.py", line 1317, in _request
  (response, content) = self._conn_request(conn, request_uri, method, body, headers)
File "/usr/local/lib/python2.7/dist-packages/httplib2/__init__.py", line 1286, in _conn_request
  response = conn.getresponse()
File "/usr/lib/python2.7/httplib.py", line 1030, in getresponse
  response.begin()
File "/usr/lib/python2.7/httplib.py", line 407, in begin
  version, status, reason = self._read_status()
File "/usr/lib/python2.7/httplib.py", line 371, in _read_status
  raise BadStatusLine(line)
httplib.BadStatusLine:

Daniel Zhang (張道博)   This exception was caused by an excessive upload size.
01 Jun 2014 13:37

MSG-539 — move finalized export files to final dump directory upon completion

Daniel Zhang (張道博)   https://github.com/dz1111/Maui-Smart-
28 May 2014 18:24   Grid/commit/2b8b72ba8add49f7063f157ed33e586f5f58f1b5

MSG-543 — investigate single interval missing at the beginning of a calendar month for aggregated data

Daniel Zhang (張道博)   Fixed by incrementing month end by one interval.
27 May 2014 14:51

Daniel Zhang (張道博)   https://github.com/dz1111/Maui-Smart-
27 May 2014 14:53   Grid/commit/ad91c7889910ff4bf68132a553fc2e58fe1b072e

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MSG-541 — load missing 15-min aggregated data for egauge 4915

Daniel Zhang (張道博)   Loaded. New issue has been opened for missing last days of the month #MSG-542.
23 May 2014 11:22

MSG-542 — investigate and fix aggregation not occurring for the last day in a calendar month

Daniel Zhang (張道博)
23 May 2014 11:37

The last calendar month days are observed in the timestamps used to process data.

Result of month start-ends for egauge:

```
$ python test____msg_data_aggregator.py
2014-05-23 11:36:40,705 - msg_data_aggregator - INFO: start 2013-08-21 15:00:00
2014-05-23 11:36:40,706 - msg_data_aggregator - INFO: end 2014-05-23 10:58:00
2014-05-23 11:36:40,706 - msg_time_util - DEBUG: start 2013-08-21 15:00:00, end
2014-05-23 10:58:00
(datetime.datetime(2013, 8, 21, 15, 0), datetime.datetime(2013, 8, 31, 23, 59, 59))
(datetime.datetime(2013, 9, 1, 0, 0), datetime.datetime(2013, 9, 30, 23, 59, 59))
(datetime.datetime(2013, 10, 1, 0, 0), datetime.datetime(2013, 10, 31, 23, 59, 59))
(datetime.datetime(2013, 11, 1, 0, 0), datetime.datetime(2013, 11, 30, 23, 59, 59))
(datetime.datetime(2013, 12, 1, 0, 0), datetime.datetime(2013, 12, 31, 23, 59, 59))
(datetime.datetime(2014, 1, 1, 0, 0), datetime.datetime(2014, 1, 31, 23, 59, 59))
(datetime.datetime(2014, 2, 1, 0, 0), datetime.datetime(2014, 2, 28, 23, 59, 59))
(datetime.datetime(2014, 3, 1, 0, 0), datetime.datetime(2014, 3, 31, 23, 59, 59))
(datetime.datetime(2014, 4, 1, 0, 0), datetime.datetime(2014, 4, 30, 23, 59, 59))
(datetime.datetime(2014, 5, 1, 0, 0), datetime.datetime(2014, 5, 23, 23, 59, 59))
[(datetime.datetime(2013, 8, 21, 15, 0), datetime.datetime(2013, 8, 31, 23, 59, 59)),
(datetime.datetime(2013, 9, 1, 0, 0), datetime.datetime(2013, 9, 30, 23, 59, 59)),
(datetime.datetime(2013, 10, 1, 0, 0), datetime.datetime(2013, 10, 31, 23, 59, 59)),
(datetime.datetime(2013, 11, 1, 0, 0), datetime.datetime(2013, 11, 30, 23, 59, 59)),
(datetime.datetime(2013, 12, 1, 0, 0), datetime.datetime(2013, 12, 31, 23, 59, 59)),
(datetime.datetime(2014, 1, 1, 0, 0), datetime.datetime(2014, 1, 31, 23, 59, 59)),
(datetime.datetime(2014, 2, 1, 0, 0), datetime.datetime(2014, 2, 28, 23, 59, 59)),
(datetime.datetime(2014, 3, 1, 0, 0), datetime.datetime(2014, 3, 31, 23, 59, 59)),
(datetime.datetime(2014, 4, 1, 0, 0), datetime.datetime(2014, 4, 30, 23, 59, 59)),
(datetime.datetime(2014, 5, 1, 0, 0), datetime.datetime(2014, 5, 23, 23, 59, 59))]
.
```

Ran 1 test in 0.637s

OK

Daniel Zhang (張道博)
23 May 2014 13:46

Missing last day for aggregated data is only appearing in egauge data.

Daniel Zhang (張道博)
23 May 2014 14:58

Fixed missing data for the last calendar day in a month for egauge.

Daniel Zhang (張道博)
23 May 2014 15:01

https://github.com/dz1111/Maui-Smart-Grid/commit/565dd74979bb34dbf6002e092a7be68b1b09d87a

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MSG-540 — load missing May data for egauge 4913 for 2014 May 02--14

Daniel Zhang (張道博)
22 May 2014 17:12

Performed manual load of data.

Verified by query.

MSG-407 — Data Processing

MSG-538 — migrate current dump directory to be new temp work directory

Daniel Zhang (張道博)   https://github.com/dz1111/Maui-Smart-
20 May 2014 14:04   Grid/commit/45b6cf51bc711ed43ea501b5e9602d18c0774ad0

MSG-537 — Test export using /usr/local/msg-db-dumps

Daniel Zhang (張道博)   Changed config to new dump location and verified exports are working at the new
19 May 2014 18:51   location.

MSG-536 — need to catch Backend Error from apiclient.errors.HttpError
Traceback (most recent call last):
  File "/home/daniel/Maui-Smart-Grid-1.0.0/bin/exportDBsToCloud.py", line 66, in <module>
    deleteOutdated = True)
  File "/home/daniel/Maui-Smart-Grid-1.0.0/lib/python/msg_db_exporter.py", line 276, in exportDB
    testing = testing)
  File "/home/daniel/Maui-Smart-Grid-1.0.0/lib/python/msg_db_exporter.py", line 388, in
uploadFileToCloudStorage
    if not self.__verifyMD5Sum(fullPath, self.fileIDForFileName(myFile)):
  File "/home/daniel/Maui-Smart-Grid-1.0.0/lib/python/msg_db_exporter.py", line 596, in __verifyMD5Sum
    for item in self.cloudFiles['items']:
  File "/home/daniel/Maui-Smart-Grid-1.0.0/lib/python/msg_db_exporter.py", line 54, in cloudFiles
    self._cloudFiles = self.driveService.files().list().execute()
  File "/usr/local/lib/python2.7/dist-packages/oauth2client/util.py", line 132, in positional_wrapper
    return wrapped(*args, **kwargs)
  File "/usr/local/lib/python2.7/dist-packages/apiclient/http.py", line 723, in execute
    raise HttpError(resp, content, uri=self.uri)
apiclient.errors.HttpError: <HttpError 503 when requesting https://www.googleapis.com/drive/v2/files?alt=json
returned "Backend Error">

Daniel Zhang (張道博)   https://github.com/dz1111/Maui-Smart-
16 May 2014 13:28   Grid/commit/46b0d5016ccd713eb2ad3843dd266bacb4c06609

MSG-534 — unicode arg error during export (affects available files list)
Traceback (most recent call last):
  File "/home/daniel/Maui-Smart-Grid-1.0.0/bin/exportDBsToCloud.py", line 79, in <module>
    exporter.sendDownloadableFiles()
  File "/home/daniel/Maui-Smart-Grid-1.0.0/lib/python/msg_db_exporter.py", line 467, in sendDownloadableFiles
    output.write(self.markdownListOfDownloadableFiles())
TypeError: unicode argument expected, got 'str'

Daniel Zhang (張道博)   https://github.com/dz1111/Maui-Smart-
16 May 2014 13:28   Grid/commit/46b0d5016ccd713eb2ad3843dd266bacb4c06609

Daniel Zhang (張道博)   from io import StringIO is for Python 3.

from StringIO import StringIO is for Python 2.7.

MSG-529 — ensure all exported files are uploaded to the cloud

Notable exceptions are:
.*fcphase3.sql.gz.0

Has a remote MD5 failure.

| Daniel Zhang (張道博)
08 May 2014 18:29 | Found exception for fcphase3 part 0:

2014-05-08 14:52:49,314 - msg_db_exporter - DEBUG: to upload: ['/home/daniel/msg-db-dumps/2014-05-08_144426_fcphase3.sql.gz.0', '/home/daniel/msg-db-dumps/2014-05-08_144426_fcphase3.sql.gz.1', '/home/daniel/msg-db-dumps/2014-05-08_144426_fcphase3.sql.gz.2', '/home/daniel/msg-db-dumps/2014-05-08_144426_fcphase3.sql.gz.3']
2014-05-08 14:52:49,315 - msg_db_exporter - DEBUG: files to upload: ['/home/daniel/msg-db-dumps/2014-05-08_144426_fcphase3.sql.gz.0', '/home/daniel/msg-db-dumps/2014-05-08_144426_fcphase3.sql.gz.1', '/home/daniel/msg-db-dumps/2014-05-08_144426_fcphase3.sql.gz.2', '/home/daniel/msg-db-dumps/2014-05-08_144426_fcphase3.sql.gz.3']
2014-05-08 14:52:49,315 - msg_db_exporter - INFO: Uploading /home/daniel/msg-db-dumps/2014-05-08_144426_fcphase3.sql.gz.0.
2014-05-08 14:52:49,315 - msg_db_exporter - DEBUG: full path /home/daniel/msg-db-dumps
2014-05-08 14:52:49,315 - msg_db_exporter - INFO: Uploading 2014-05-08_144426_fcphase3.sql.gz.0.
2014-05-08 14:52:49,330 - msg_db_exporter - ERROR: Exception while uploading 2014-05-08_144426_fcphase3.sql.gz.0: ''. |
| Daniel Zhang (張道博)
08 May 2014 18:44 | Manual upload works fine:

In [7]: exporter.uploadDBToCloudStorage(fullPath='/home/daniel/msg-db-dumps/2014-05-08_144426_fcphase3.sql.gz.0'
)
2014-05-08 18:40:56,168 - msg_db_exporter - DEBUG: full path /home/daniel/msg-db-dumps
2014-05-08 18:40:56,168 - msg_db_exporter - INFO: Uploading 2014-05-08_144426_fcphase3.sql.gz.0.
2014-05-08 18:40:56,234 - msg_db_exporter - INFO: Authorizing credentials.
2014-05-08 18:40:56,234 - msg_db_exporter - INFO: Authorized.
2014-05-08 18:42:24,571 - msg_db_exporter - INFO: local file path: /home/daniel/msg-db-dumps/2014-05-08_144426_fcphase3.sql.gz.0
2014-05-08 18:42:24,895 - msg_db_exporter - DEBUG: local md5: 98ebcf68df78027902b75a9652c9a84e
2014-05-08 18:42:25,760 - msg_db_exporter - DEBUG: remote md5: 98ebcf68df78027902b75a9652c9a84e
2014-05-08 18:42:25,760 - msg_db_exporter - INFO: Verification by MD5 checksum succeeded.
2014-05-08 18:42:25,760 - msg_db_exporter - INFO: Finished. |

Out[7]: u'0ByCQ0YlYSwf3Q2hvMnVMYk94Ulk'

Daniel Zhang (張道博)
10 May 2014 16:09

Remote MD5 fails for fcphase3 part 0:

2014-05-10 15:01:01,435 - msg_db_exporter - INFO - Uploading /home/daniel/msg-db-dumps/2014-05-10_145229_fcphase3.sql.gz.0.
2014-05-10 15:01:01,435 - msg_db_exporter - INFO - full path /home/daniel/msg-db-dumps
2014-05-10 15:01:01,435 - msg_db_exporter - INFO - Uploading 2014-05-10_145229_fcphase3.sql.gz.0.
2014-05-10 15:01:01,440 - msg_db_exporter - ERROR - Exception while uploading 2014-05-10_145229_fcphase3.sql.gz.0: ''.
2014-05-10 15:01:02,781 - msg_db_exporter - INFO - local file path: /home/daniel/msg-db-dumps/2014-05-10_145229_fcphase3.sql.gz.0
2014-05-10 15:01:03,149 - msg_db_exporter - DEBUG - local md5: d6dcb1925989831ecf2f5610b087c8d9
2014-05-10 15:01:03,915 - msg_db_exporter - INFO - Failed MD5 checksum verification.
2014-05-10 15:01:03,917 - msg_db_exporter - INFO - file id after upload: None
2014-05-10 15:01:03,918 - msg_db_exporter - INFO - file id: None

---

Daniel Zhang (張道博)
14 May 2014 14:33

Separate test is successful:

2014-05-14 14:31:53,487 - msg_db_exporter - INFO - full path /home/daniel/msg-db-dumps
2014-05-14 14:31:53,487 - msg_db_exporter - INFO - Uploading 2014-05-14_141223_fcphase3.sql.gz.0.
2014-05-14 14:31:53,525 - msg_db_exporter - INFO - Authorizing credentials.
2014-05-14 14:31:53,526 - msg_db_exporter - INFO - Authorized.
2014-05-14 14:32:22,527 - msg_db_exporter - INFO - remote file ID: 0ByCQ0YlYSwf3c2haTGNvdWE1LVU
2014-05-14 14:32:22,527 - msg_db_exporter - INFO - local file path: /home/daniel/msg-db-dumps/2014-05-14_141223_fcphase3.sql.gz.0
2014-05-14 14:32:22,873 - msg_db_exporter - DEBUG - local md5: 05ac5ac922f4f6ac0945a87aaa7ca023
2014-05-14 14:32:23,870 - msg_db_exporter - DEBUG - remote md5: 05ac5ac922f4f6ac0945a87aaa7ca023
2014-05-14 14:32:23,870 - msg_db_exporter - INFO - Verification by MD5 checksum succeeded.
2014-05-14 14:32:23,870 - msg_db_exporter - INFO - Finished.
2014-05-14 14:32:24,817 - __main__ - DEBUG: file ID to delete: None

.

Ran 1 test in 31.465s

Daniel Zhang (張道博)
14 May 2014 14:34

Automated process fails on the same file:

2014-05-14 14:20:53,513 - msg_db_exporter - INFO - Uploading /home/daniel/msg-db-dumps/2014-05-14_141223_fcphase3.sql.gz.0.
2014-05-14 14:20:53,514 - msg_db_exporter - INFO - full path /home/daniel/msg-db-dumps

2014-05-14 14:20:53,514 - msg_db_exporter - INFO - Uploading 2014-05-14_141223_fcphase3.sql.gz.0.
2014-05-14 14:20:53,522 - msg_db_exporter - ERROR - Exception while uploading 2014-05-14_141223_fcphase3.sql.gz.0: ''.
2014-05-14 14:20:54,870 - msg_db_exporter - INFO - remote file ID: None
2014-05-14 14:20:54,870 - msg_db_exporter - INFO - local file path: /home/daniel/msg-db-dumps/2014-05-14_141223_fcphase3.sql.gz.0
2014-05-14 14:20:55,209 - msg_db_exporter - DEBUG - local md5: 05ac5ac922f4f6ac0945a87aaa7ca023
2014-05-14 14:20:56,170 - msg_db_exporter - INFO - Failed MD5 checksum verification.
2014-05-14 14:20:56,180 - msg_db_exporter - INFO - file id after upload: None
2014-05-14 14:20:56,180 - msg_db_exporter - INFO - file id: None

---

Daniel Zhang (張道博)
14 May 2014 16:44

Changing the DB processing order results in different files failing during upload.

Daniel Zhang (張道博)
14 May 2014 17:58

A single retry, delayed by 10 s, succeeds after an exception:

2014-05-14 17:38:37,237 - msg_db_exporter - INFO - Uploading /home/daniel/msg-db-dumps/2014-05-14_170854_meco_v3.sql.gz.0.
2014-05-14 17:38:37,237 - msg_db_exporter - INFO - full path /home/daniel/msg-db-dumps
2014-05-14 17:38:37,237 - msg_db_exporter - INFO - Uploading 2014-05-14_170854_meco_v3.sql.gz.0.
2014-05-14 17:38:37,243 - msg_db_exporter - ERROR - Exception while uploading 2014-05-14_170854_meco_v3.sql.gz.0: ''.
2014-05-14 17:38:38,967 - msg_db_exporter - INFO - remote file ID: None
2014-05-14 17:38:38,968 - msg_db_exporter - INFO - local file path: /home/daniel/msg-db-dumps/2014-05-14_170854_meco_v3.sql.gz.0
2014-05-14 17:38:39,906 - msg_db_exporter - DEBUG - local md5: 42ac3f8ec24c928c1a16c5d0b10f189e
2014-05-14 17:38:40,809 - msg_db_exporter - INFO - Failed MD5 checksum verification.
2014-05-14 17:38:50,819 - msg_db_exporter - INFO - full path /home/daniel/msg-db-dumps
2014-05-14 17:38:50,820 - msg_db_exporter - INFO - Uploading 2014-05-14_170854_meco_v3.sql.gz.0.
2014-05-14 17:40:08,275 - msg_db_exporter - INFO - remote file ID: 0ByCQ0YlYSwf3eG1iT0JNQllOY28
2014-05-14 17:40:08,275 - msg_db_exporter - INFO - local file path: /home/daniel/msg-db-dumps/2014-05-14_170854_meco_v3.sql.gz.0
2014-05-14 17:40:09,149 - msg_db_exporter - DEBUG - local md5: 42ac3f8ec24c928c1a16c5d0b10f189e
2014-05-14 17:40:10,172 - msg_db_exporter - DEBUG - remote md5: 42ac3f8ec24c928c1a16c5d0b10f189e
2014-05-14 17:40:10,173 - msg_db_exporter - INFO - Verification by MD5 checksum succeeded.
2014-05-14 17:40:10,173 - msg_db_exporter - INFO - Finished.
2014-05-14 17:40:10,173 - msg_db_exporter - INFO - file id after upload: None
2014-05-14 17:40:10,173 - msg_db_exporter - INFO - file id: None

All files are uploaded successfully.

MSG-506 — verify upload of all files
Part 0 of fcphase3 appears to be missing.

MSG-495 — verify delete outdated reaches all files that need deleting

Daniel Zhang (張道博)

14 May 2014 10:22

No problems are observed with file deletion at this time.

MSG-535 — fix DB and table permissions used during export
Table permissions appear to not be set sufficiently for pg_dump:

pg_dump: Error message from server: ERROR: permission denied for schema dw
pg_dump: The command was: LOCK TABLE dw."MeterLocationHistory_deprecated" IN ACCESS SHARE MODE
2014-05-11 14:45:02,508 - msg_db_exporter - INFO - Exception while dumping: Command 'pg_dump -h localhost -p 5432 -U daniel meco_v3 > /home/daniel/msg-db-dumps/2014-05-11_144502_meco_v3.sql' returned non-zero exit status 1

Daniel Zhang (張道博)

13 May 2014 21:57

https://github.com/dz1111/Maui-Smart-Grid/commit/62f15f5593ec65631482f4f82568024ef97341d5

MSG-533 — exporter fails to export DBs

Daniel Zhang (張道博)

08 May 2014 18:09

Fixed password problem.

Pgpass uses escaped chars for ':' and '\' on OS X but doesn't use this on Linux.

MSG-531 — investigate http error involving file upload
 [34m2014-04-30 03:05:34,616 - msg_db_exporter - [01mINFO: [39;49;0mUploading 2014-04-30_030430_biahouse.sql.gz. [39;49;0m
Traceback (most recent call last):
  File "/home/daniel/Maui-Smart-Grid-1.0.0/bin/exportDBsToCloud.py", line 65, in <module>
    'num_split_sections')))
  File "/home/daniel/Maui-Smart-Grid-1.0.0/lib/python/msg_db_exporter.py", line 237, in exportDB
    fileID = self.uploadDBToCloudStorage(f, testing = testing)
  File "/home/daniel/Maui-Smart-Grid-1.0.0/lib/python/msg_db_exporter.py", line 311, in uploadDBToCloudStorage
    media_body).execute()
  File "/usr/local/lib/python2.7/dist-packages/oauth2client/util.py", line 132, in positional_wrapper
    return wrapped(*args, **kwargs)
  File "/usr/local/lib/python2.7/dist-packages/apiclient/http.py", line 688, in execute
    _, body = self.next_chunk(http=http, num_retries=num_retries)
  File "/usr/local/lib/python2.7/dist-packages/oauth2client/util.py", line 132, in positional_wrapper
    return wrapped(*args, **kwargs)
  File "/usr/local/lib/python2.7/dist-packages/apiclient/http.py", line 874, in next_chunk

```
            return self._process_response(resp, content)
```

File "/usr/local/lib/python2.7/dist-packages/apiclient/http.py", line 901, in _process_response
    raise HttpError(resp, content, uri=self.uri)
apiclient.errors.HttpError: <HttpError 503 when requesting https://www.googleapis.com/upload/drive/v2/files?
uploadType=resumable&alt=json returned "Backend Error">

Daniel Zhang (張道博)	Received the following error:
01 May 2014 15:47	

[32m2014-05-01 02:48:18,938 - msg_db_exporter - [01mDEBUG: [39;49;0mfull
path /home/daniel/msg-db-dumps [39;49;0m
[34m2014-05-01 02:48:18,938 - msg_db_exporter - [01mINFO:
[39;49;0mUploading 2014-05-01_022001_meco_v3.sql.gz.0. [39;49;0m
[34m2014-05-01 02:48:19,472 - msg_db_exporter - [01mINFO:
[39;49;0mAuthorizing credentials. [39;49;0m
[34m2014-05-01 02:48:19,472 - msg_db_exporter - [01mINFO:
[39;49;0mAuthorized. [39;49;0m
Traceback (most recent call last):
  File "/home/daniel/Maui-Smart-Grid-1.0.0/bin/exportDBsToCloud.py", line 65, in
<module>
    'num_split_sections')))
  File "/home/daniel/Maui-Smart-Grid-1.0.0/lib/python/msg_db_exporter.py", line
237, in exportDB
    fileID = self.uploadDBToCloudStorage(f, testing = testing)
  File "/home/daniel/Maui-Smart-Grid-1.0.0/lib/python/msg_db_exporter.py", line
309, in uploadDBToCloudStorage
    result = self.driveService.files().insert(body = body,
  File "/home/daniel/Maui-Smart-Grid-1.0.0/lib/python/msg_db_exporter.py", line 61,
in driveService
    self._driveService = build('drive', 'v2', http = http)
  File "/usr/local/lib/python2.7/dist-packages/oauth2client/util.py", line 132, in
positional_wrapper
    return wrapped(*args, **kwargs)
  File "/usr/local/lib/python2.7/dist-packages/apiclient/discovery.py", line 192, in
build
    resp, content = http.request(requested_url)
  File "/usr/local/lib/python2.7/dist-packages/oauth2client/util.py", line 132, in
positional_wrapper
    return wrapped(*args, **kwargs)
  File "/usr/local/lib/python2.7/dist-packages/oauth2client/client.py", line 490, in
new_request
    redirections, connection_type)
  File "/usr/local/lib/python2.7/dist-packages/httplib2/__init__.py", line 1570, in
request
    (response, content) = self._request(conn, authority, uri, request_uri, method, body,
headers, redirections, cachekey)
  File "/usr/local/lib/python2.7/dist-packages/httplib2/__init__.py", line 1317, in
_request
    (response, content) = self._conn_request(conn, request_uri, method, body,
headers)
  File "/usr/local/lib/python2.7/dist-packages/httplib2/__init__.py", line 1286, in

```
_conn_request
    response = conn.getresponse()
  File "/usr/lib/python2.7/httplib.py", line 1018, in getresponse
    raise ResponseNotReady()
httplib.ResponseNotReady
```

Daniel Zhang (張道博)	Errors related to uploading and connecting are no longer appearing.
02 May 2014 16:26	

MSG-530 — files present in cloud storage are not listed on the HISEP available files page

The last listed date is 04-28 on the available files page in contrast to the last file date being 04-30 in cloud storage.

Daniel Zhang (張道博)	Files are now appearing on the HISEP available files page as is expected for correct
02 May 2014 16:48	behavior.

MSG-527 — send aggregation logging to email

Daniel Zhang (張道博)	Output to stdout is reported via email. Color codes should be removed.
30 Apr 2014 15:22	

MSG-488 — aggregate continuously by implementing a schedule for aggregation of new data

Daniel Zhang (張道博)	Aggregation has been scheduled.
28 Apr 2014 16:39	

MSG-519 — add notification of new data aggregation

Daniel Zhang (張道博)	https://github.com/dz1111/Maui-Smart-
28 Apr 2014 16:37	Grid/commit/46302bc84e81064b1ccb6cb7cc563d2ee00b192d

MSG-526 — update last reported date of new data aggregation

Daniel Zhang (張道博)	https://github.com/dz1111/Maui-Smart-
28 Apr 2014 16:36	Grid/commit/46302bc84e81064b1ccb6cb7cc563d2ee00b192d

MSG-524 — collect results during aggregation of new data

report insert quantity

Daniel Zhang (張道博)	https://github.com/dz1111/Maui-Smart-
23 Apr 2014 14:05	Grid/commit/05a00473275b11a15fd22b40915fd62c8b849f8b

MSG-525 — handle final endpoint error for egauge data

Daniel Zhang (張道博)	https://github.com/dz1111/Maui-Smart-
23 Apr 2014 13:26	Grid/commit/9063fd27abfdd0cf5e8e685b7049ee385e40225f

MSG-523 — handle exception where no new data is available

Example:

2014-04-22 14:37:44,279 - msg_data_aggregator - CRITICAL: datatype: weather, start, end: 2014-03-31 23:45:00, 2014-03-31 23:45:00
E
==
ERROR: testAggregateNewData (__main__.MSGDataAggregatorTester)

Traceback (most recent call last):
  File "test___msg_data_aggregator.py", line 307, in testAggregateNewData
    map(self.aggregator.aggregateNewData, self.rawTypes)
  File "/home/daniel/fork-of-github-maui-smart-grid/src/msg_data_aggregator.py", line 536, in aggregateNewData
    '%Y-%m-%d %H:%M:%S'))
  File "/home/daniel/fork-of-github-maui-smart-grid/src/msg_data_aggregator.py", line 820, in aggregatedData
    data = aggData)
  File "/home/daniel/fork-of-github-maui-smart-grid/src/msg_aggregated_data.py", line 26, in __init__
    raise Exception('Data not provided.')
Exception: Data not provided.

Ran 1 test in 0.304s

Daniel Zhang (張道博)	https://github.com/dz1111/Maui-Smart-Grid/commit/86e4f1f8ab5fcea8f485e2b57f5515e576cd5936
22 Apr 2014 15:25	

MSG-522 — test aggregation of new data using live data

Daniel Zhang (張道博)	Aggregation of new data is successful.
21 Apr 2014 15:36	

MSG-521 — handle duplicate keys during insert of aggregate new data

Sample error:

2014-04-21 14:47:56,924 - msg_db_util - ERROR: SQL execute failed using INSERT INTO "AverageFifteenMinKiheiSCADATemperatureHumidity" (timestamp,met_air_temp_degf,met_rel_humid_pct) VALUES('2014-02-28T23:45:00',84.2421875,26.7578125). The error is: duplicate key value violates unique constraint "KiheiSCADATemperatureHumidity_copy_pkey"
DETAIL: Key ("timestamp")=(2014-02-28 23:45:00) already exists.

Daniel Zhang (張道博)	Preventing duplicate conflict by incrementing start endpoint.
21 Apr 2014 15:32	

Daniel Zhang (張道博)	https://github.com/dz1111/Maui-Smart-Grid/commit/a824985bf49ad94087201fda00b3b19e548a0d47
21 Apr 2014 15:37	

MSG-520 — prevent msg aggregator test from accessing production data

MSG-516 — change end date check to be less than end date + 1 day

Daniel Zhang (張道博)

04 Apr 2014 14:00

https://github.com/dz1111/Maui-Smart-Grid/commit/b785b14124598c5cb45feb1b15d8f62259fca99b

---

MSG-517 — fix endpoint for aggregate new data
Endpoint is currently 00:00:00 instead of the calculated time.

Daniel Zhang (張道博)

04 Apr 2014 15:43

https://github.com/dz1111/Maui-Smart-Grid/commit/7996efbff05fe57ece28447f875260dd58faa64f

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MSG-513 — aggregate new data if present

Daniel Zhang (張道博)

04 Apr 2014 15:44

Aggregation of new data is successful. Still need to enable insertion.

Daniel Zhang (張道博)

04 Apr 2014 15:53

https://github.com/dz1111/Maui-Smart-Grid/commit/cdc63347708529d81f56e337e39814c2e7c2b627

MSG-515 — generate static test data for data aggregation unit tests

MSG-518 — clean up aggregator tests

MSG-489 — clean obsolete users & groups from active DBs

MSG-417 — generate automatic documentation from source code

MSG-397 — provide notification upon failed data loading for missing columns
During failed data loading conditions, the invalid data is stored at /usr/local/msg-egauge-service/invalid-data.

Daniel Zhang (張道博)

23 Jan 2014 18:42

egauge data loading has reporting of status via notifications:
https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/eebf31bc3528fec0e7200343d9b27a84cf6ce90a#diff-7c14f14ae6f494eee5f4324b3a685d29

Daniel Zhang (張道博)

23 Jan 2014 18:43

Failures are not currently separately reported.

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/meco_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/meco_v3-energy-test-data.xml'

Ran 3 tests in 2.498s

FAILED (errors=2)

MSG-510 — perform full aggregation of irradiance, weather, egauge and circuit data

Daniel Zhang (張道博)	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/5bcc87a98677bac0981b9058ff51839d94b6b4de
21 Mar 2014 13:11	

MSG-511 — verify calculation of aggregation rows

Example:

2014-03-20 14:11:53,531 - msg_data_aggregator - DEBUG: Aggregating 3376 rows of data.
2014-03-20 14:11:53,531 - msg_data_aggregator - DEBUG: minute crossed 45
2014-03-20 14:11:53,531 - msg_data_aggregator - DEBUG: resetting subkey 1518

Daniel Zhang (張道博)	Subkey case is verified.
20 Mar 2014 16:04	
Daniel Zhang (張道博)	Nonsubkey case is verified.
20 Mar 2014 16:18	
Daniel Zhang (張道博)	https://github.com/dz1111/Maui-Smart-Grid/commit/ababab4b27ac5455e517df2011283a150ef255ce
20 Mar 2014 16:19	
Daniel Zhang (張道博)	https://github.com/dz1111/Maui-Smart-Grid/commit/963e466e20538155c115ffa1f2665130471f5d8f
20 Mar 2014 16:19	

MSG-509 — test writing of all data types

Daniel Zhang (張道博)	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/55b983218d98fd3a599a15a5345427b7c32acc69
17 Mar 2014 14:41	
Daniel Zhang (張道博)	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/bf9a2ef5c322d1979336c10563d56efe3c80bd9b
17 Mar 2014 14:41	

MSG-507 — convert weather aggregation to the general form

Daniel Zhang (張道博)	https://github.com/dz1111/Maui-Smart-Grid/commit/77af1e01351ba3b4086fc5f942d695c4a8b1d68f
14 Mar 2014 13:25	

MSG-508 — convert irradiance aggregation to the general form

Daniel Zhang (張道博)
14 Mar 2014 13:25

https://github.com/dz1111/Maui-Smart-Grid/commit/77af1e01351ba3b4086fc5f942d695c4a8b1d68f

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MSG-505 — handle interval crossings correctly for all subkeys including boundary cases

Daniel Zhang (張道博)
14 Mar 2014 13:24

https://github.com/dz1111/Maui-Smart-Grid/commit/341f9e276c1aa954ecc971b8605ec69044473150

MSG-503 — add solar+ column

Daniel Zhang (張道博)
10 Mar 2014 13:16

2461115b0bd61c6610c5003f3ab8bea98c848ff3

MSG-491 — write aggregated irradiance data to the db

Daniel Zhang (張道博)
10 Mar 2014 13:16

6378f94d8e57a496807b64bed7df166b68ad906b

MSG-494 — write aggregated egauge data to the db

Daniel Zhang (張道博)
10 Mar 2014 13:16

6378f94d8e57a496807b64bed7df166b68ad906b

MSG-493 — write aggregated circuit data to the db

Daniel Zhang (張道博)
10 Mar 2014 13:15

6378f94d8e57a496807b64bed7df166b68ad906b

MSG-492 — write aggregated weather data to the db

Daniel Zhang (張道博)
10 Mar 2014 13:15

6378f94d8e57a496807b64bed7df166b68ad906b

MSG-284 — handle db connect exception

Daniel Zhang (張道博)
10 Mar 2014 13:17

6378f94d8e57a496807b64bed7df166b68ad906b

MSG-502 — add pv system column

Daniel Zhang (張道博)
06 Mar 2014 14:06

https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/1f477008f137e72e797fef8882343ef5cc506bd8

MSG-485 — implement weather (temp/hum) aggregation 15 min

Daniel Zhang (張道博)
06 Mar 2014 14:07

https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/e12c77403328be898774de3948d3ed57b7599371

MSG-486 — implement circuit data aggregation 15 min

Daniel Zhang (張道博)
06 Mar 2014 14:06

https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/5a98e947ed52c17a9e086d468ba600675e0b1b55

MSG-487 — implement egauge data aggregation 15 min

Daniel Zhang (張道博)
06 Mar 2014 14:06

https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/5a98e947ed52c17a9e086d468ba600675e0b1b55

MSG-297 — eGauge Readings

MSG-468 — adjust notification formatting to remove linefeeds

Daniel Zhang (張道博)
03 Feb 2014 16:50

Code in /msg_notifier.py appears to be correct with no additional linefeeds being present.

MSG-499 — add share all files method

Daniel Zhang (張道博)
03 Mar 2014 12:44

- commit b7390ebad9542c32f8722e7ee8b621a0d0ed4673
- commit 91aac3c80bb5b02a185a663c0f11d925766a517d

MSG-477 — test ability of users to download exported files

Daniel Zhang (張道博)
03 Mar 2014 12:36

Files can be downloaded for those with reader permission.

MSG-472 — write docs for restoration of dbs from cloud exports

Daniel Zhang (張道博)
27 Feb 2014 14:11

Docs are on export list site.

MSG-479 — provide access to export download links

Daniel Zhang (張道博)
27 Feb 2014 14:12

https://github.com/dz1111/Maui-Smart-Grid/commit/7552de85967194490db1af68b8370711bf5ee13d

Daniel Zhang (張道博)
03 Mar 2014 12:41

https://github.com/dz1111/Maui-Smart-Grid/commit/f45c8a0446a6b27f45b29c6109371377bbdd6af9

MSG-497 — add uploader for download links

Daniel Zhang (張道博)
27 Feb 2014 14:12
https://github.com/dz1111/Maui-Smart-Grid/commit/7552de85967194490db1af68b8370711bf5ee13d

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MSG-473 — verify setting of reader permissions for recipient list

Daniel Zhang (張道博)
03 Mar 2014 12:48
Verified by comparing two accounts.

MSG-483 — create DataAggregator

Daniel Zhang (張道博)
27 Feb 2014 14:11
Initial class has been created.

MSG-445 — provide more graceful error on non-existing config value

Daniel Zhang (張道博)
21 Jan 2014 16:31
Existing error message seems sufficient:

2014-01-21 16:30:19,631 - __main__ - INFO - Testing exportDB
2014-01-21 16:30:19,631 - msg_db_exporter - INFO - Exporting meco_v3_test1.
Failed when getting _config option export_test_data_path in section Testing

---

MSG-447 — remove outdated local export files after upload

MSG-496 — verify MECO reading dupes

Daniel Zhang (張道博)
25 Feb 2014 13:04
https://github.com/dz1111/Maui-Smart-Grid/commit/6e3a5c69b96016b9916cddb14e139ef678549c45

MSG-469 — Verify correct operation of deleteOutdatedFiles()

Daniel Zhang (張道博)
11 Feb 2014 13:49
Number of days is observed as being correct.

Daniel Zhang (張道博)
12 Feb 2014 13:30
Testing a change in number of days.

Daniel Zhang (張道博)
21 Feb 2014 14:32
Determined that expected behavior will occur when deleteOutdatedFiles() is implemented recursively.

Daniel Zhang (張道博)
21 Feb 2014 14:35
https://github.com/dz1111/Maui-Smart-Grid/commit/4bf7b8ba1904d77668138550c0f1fef85b904e50

MSG-484 — implement irradiance aggregation 15 min

Daniel Zhang (張道博)
21 Feb 2014 13:56
https://github.com/dz1111/Maui-Smart-Grid/commit/684c2e1f272b48910a292cc993f1b02becdb91f1

Daniel Zhang (張道博)
21 Feb 2014 13:56
https://github.com/dz1111/Maui-Smart-Grid/commit/dfdccd1d847fe66d5719811634cc40109470f75a

MSG-279 — Views

MSG-482 — add all databases to sepgroup acl setter

Daniel Zhang (張道博)   https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-
12 Feb 2014 16:19   Grid/commit/d43d04470355381f28c9e2fecb63c2a255281d95

MSG-453 — generate 15 min aggregated temp/humidity data for latest data

Daniel Zhang (張道博)   Data generated and inserted.
12 Feb 2014 13:27

MSG-480 — always upload export files in fixed order

Daniel Zhang (張道博)   Order that is applied is the one in the config file.
10 Feb 2014 16:01

MSG-436 — output URLs of cloud-based files

Daniel Zhang (張道博)   https://github.com/dz1111/Maui-Smart-
05 Feb 2014 16:12   Grid/commit/b97966016367d726e0df4fa4ffe0ce0ba7aa325c

MSG-478 — critical config error causes all services to fail
Weather loading:

Critical error: Failed to read site _config
Exception AttributeError: "'MSGDBConnector' object has no attribute 'dbName'" in <bound method
MSGDBConnector.__del__ of <msg_db_connector.MSGDBConnector object at 0x2063b90>> ignored

Export:

Critical error: Failed to read site _config

Daniel Zhang (張道博)   A syntax error was corrected.
04 Feb 2014 16:07
                              The site config is critical to the correct operation of all services. Syntax errors result
                              in complete failure of the system.

MSG-470 — Provide a list of download URLs for exported files

Daniel Zhang (張道博)   https://github.com/dz1111/Maui-Smart-
05 Feb 2014 00:49   Grid/commit/36eb9ad77b902811be9a4dcb8b14e56f17a12f3c

Daniel Zhang (張道博)   https://github.com/dz1111/Maui-Smart-
05 Feb 2014 00:50   Grid/commit/cf4fb204afe64201b592c132dd9a3ee79ae31c2c

MSG-444 — Configer

MSG-434 — add read permissions for a list of email addresses to export files following upload
Can reader permissions be provided for many files without excessive email spam?

Daniel Zhang (張道博) 03 Feb 2014 16:25	https://github.com/dz1111/Maui-Smart-Grid/commit/91aac3c80bb5b02a185a663c0f11d925766a517d

MSG-467 — prevent user notification during adding of reader permissions

Daniel Zhang (張道博) 03 Feb 2014 16:24	https://github.com/dz1111/Maui-Smart-Grid/commit/148d480d2d55bbe995d425d94fa9a588faf3b3c6
Daniel Zhang (張道博) 03 Feb 2014 16:24	https://github.com/dz1111/Maui-Smart-Grid/commit/8eab1fdaf43545fdcd482dc50156dcc6eb284ead

MSG-466 — verify split archives in cloud

Daniel Zhang (張道博) 03 Feb 2014 14:32	Latest export has been verified using concatenation and 'gzip -t' testing.

MSG-198 — Logging

MSG-143 — have db destructor message handle testing mode

MSG-459 — enable support for MSG logger to use enum types for logger mode

MSG-175 — Weather Data Loading

MSG-274 — have a view for new pv instances
This is for providing notifcation of new PV instances.

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-177 — support weather data plot notification

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-413 — be able to import MSG classes in a symmetric manner as standard library classes

Daniel Zhang (張道博) 04 Dec 2013 18:17	This is based around using the "home scheme" vs the system scheme, iirc.

MSG-412 — Code Maintenance

MSG-465 — implement: if numchunks is 1 don't create a split section

Daniel Zhang (張道博)
31 Jan 2014 16:27

https://github.com/dz1111/Maui-Smart-Grid/commit/849825ca3a9eb6fbb00369cf6231c3ee63aa3352

MSG-458 — update prerelease installer with working cloud exporter

Daniel Zhang (張道博)
31 Jan 2014 16:31

Prerelease archive has been updated with the latest dist.

MSG-422 — support install of msg egauge software using install-msg.py

Daniel Zhang (張道博)
31 Jan 2014 14:13

Installation is supported using install-msg.py.

MSG-464 — switch to more efficient file splitting

Daniel Zhang (張道博)
31 Jan 2014 14:12

https://github.com/dz1111/Maui-Smart-Grid/commit/e7fabcb2fbc64a66a381b8666855412b846f710b

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MSG-460 — split gzip archive prior to uploading

Daniel Zhang (張道博)
30 Jan 2014 19:25

https://github.com/dz1111/Maui-Smart-Grid/commit/3c4fc114b4ebb7a6f04eaa022ed7b5e4d3eab666

MSG-463 — fix multiple db export in the live exporter

Daniel Zhang (張道博)
30 Jan 2014 19:25

https://github.com/dz1111/Maui-Smart-Grid/commit/3c4fc114b4ebb7a6f04eaa022ed7b5e4d3eab666

MSG-462 — verify use of dhw_load_control

Daniel Zhang (張道博)
29 Jan 2014 16:48

New data loads successfully.

MSG-461 — add support for dhw_load_control

Daniel Zhang (張道博)
29 Jan 2014 15:27

https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/428785ae265e30f499c66b3a07ed3df5116dc57d

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Daniel Zhang (張道博)
29 Jan 2014 15:27

Installed new library to MSG eGauge Service.

MSG-455 — restore cloud export by verifying credentials

Related error:

2014-01-13 20:01:02,030 - __main__ - INFO - Exporting DBs to cloud.
2014-01-13 20:01:02,032 - msg_db_exporter - INFO - Exporting meco_v3.
2014-01-13 20:05:25,204 - msg_db_exporter - INFO - Compressing meco_v3 using gzip.
2014-01-13 20:19:55,972 - msg_db_exporter - DEBUG - full path /home/daniel/msg-db-dumps
2014-01-13 20:19:55,972 - msg_db_exporter - INFO - Uploading 2014-01-13_200102_meco_v3.sql.gz.
2014-01-13 20:19:56,038 - msg_db_exporter - INFO - Authorizing credentials.
2014-01-13 20:19:56,038 - msg_db_exporter - INFO - Authorized.
Traceback (most recent call last):
  File "/home/daniel/Maui-Smart-Grid-1.0.0/bin/exportDBsToCloud.py", line 55, in <module>
    toCloud = True, testing = commandLineArgs.testing)
  File "/home/daniel/Maui-Smart-Grid-1.0.0/lib/python/msg_db_exporter.py", line 151, in exportDB
    testing = testing)
  File "/home/daniel/Maui-Smart-Grid-1.0.0/lib/python/msg_db_exporter.py", line 194, in
uploadDBToCloudStorage
    media_body).execute()
  File "/usr/local/lib/python2.7/dist-packages/oauth2client/util.py", line 132, in positional_wrapper
    return wrapped(*args, **kwargs)
  File "/usr/local/lib/python2.7/dist-packages/apiclient/http.py", line 688, in execute
    _, body = self.next_chunk(http=http, num_retries=num_retries)
  File "/usr/local/lib/python2.7/dist-packages/oauth2client/util.py", line 132, in positional_wrapper
    return wrapped(*args, **kwargs)
  File "/usr/local/lib/python2.7/dist-packages/apiclient/http.py", line 867, in next_chunk
    headers=headers)
  File "/usr/local/lib/python2.7/dist-packages/oauth2client/util.py", line 132, in positional_wrapper
    return wrapped(*args, **kwargs)
  File "/usr/local/lib/python2.7/dist-packages/oauth2client/client.py", line 490, in new_request
    redirections, connection_type)
  File "/usr/local/lib/python2.7/dist-packages/httplib2/__init__.py", line 1570, in request
    (response, content) = self._request(conn, authority, uri, request_uri, method, body, headers, redirections,
cachekey)
  File "/usr/local/lib/python2.7/dist-packages/httplib2/__init__.py", line 1317, in _request
    (response, content) = self._conn_request(conn, request_uri, method, body, headers)
  File "/usr/local/lib/python2.7/dist-packages/httplib2/__init__.py", line 1286, in _conn_request
    response = conn.getresponse()
  File "/usr/lib/python2.7/httplib.py", line 1030, in getresponse
    response.begin()
  File "/usr/lib/python2.7/httplib.py", line 407, in begin
    version, status, reason = self._read_status()
  File "/usr/lib/python2.7/httplib.py", line 365, in _read_status
    line = self.fp.readline()
  File "/usr/lib/python2.7/socket.py", line 430, in readline
    data = recv(1)
  File "/usr/lib/python2.7/ssl.py", line 241, in recv

    return self.read(buflen)

  File "/usr/lib/python2.7/ssl.py", line 160, in read

    return self._sslobj.read(len)

ssl.SSLError: [Errno 1] _ssl.c:1413: error:1408F119:SSL routines:SSL3_GET_RECORD:decryption failed or bad
record mac

Daniel Zhang (張道博)
28 Jan 2014 18:45

Credentials are verified. Upload error is due to archive exceeding max upload size.

MSG-269 — support multiple db export

Daniel Zhang (張道博)
22 Jan 2014 16:59

Multiple db export is supported.

Daniel Zhang (張道博)
22 Jan 2014 18:14

https://github.com/dz1111/Maui-Smart-Grid/commit/9a22810e7a677139428232d3edb42023310a1730

MSG-456 — fix up exporter tests

Daniel Zhang (張道博)
27 Jan 2014 17:11

https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/c5e1c9c678ae04a9d9757a1caf0d2cd6f05f12bd

MSG-449 — update sample config in repo

Daniel Zhang (張道博)
23 Jan 2014 18:38

https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/7010c30d9186ec0629329acb4fccfc7a3bd4a148#diff-04c6e90faac2675aa89e2176d2eec7d8

MSG-457 — update setup.py with new files

Daniel Zhang (張道博)
23 Jan 2014 17:28

https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/afcb27ad3b25d41fe14d38502764b1c36ac50a2c

Daniel Zhang (張道博)
23 Jan 2014 17:28

https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/5802de2acdaf7798cada7c8d04bd802a82eca492

MSG-454 — remove awkward testing mode from msg db exporter
testing mode should be handled entirely through params

Daniel Zhang (張道博)
22 Jan 2014 18:14

https://github.com/dz1111/Maui-Smart-Grid/commit/9a22810e7a677139428232d3edb42023310a1730

MSG-452 — test multiple DB export

Daniel Zhang (張道博)
20 Jan 2014 18:36

https://github.com/dz1111/Maui-Smart-Grid/commit/9120c1c93a114bc522ef3f27c7f9d40280b540c0

MSG-450 — generate 15 min aggregated temperature/humidity data for 2013-jan-06 data

Daniel Zhang (張道博)
15 Jan 2014 15:20

Processed data using aggregate-scada-weather-data.sh. Found no difference in aggregated results through line-by-line comparison.

Daniel Zhang (張道博)
15 Jan 2014 17:18
https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/27ff42c1a2efe85dcdb57a45df92a6409272d79b

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MSG-451 — remove circular reference to msg logging in install-msg.py

Daniel Zhang (張道博)
09 Jan 2014 15:36
https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/fdc7975e808e085354de402e3873de80d84f9a73

MSG-295 — verify local compressed file using checksum verification of extracted archive

Daniel Zhang (張道博)
14 Jan 2014 23:21
https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/6dc42051841cbb05ac71e68bb92cb979d5b7e98e

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MSG-448 — generate 15 min aggregated irradiance data for 2013-jan-06 data

Daniel Zhang (張道博)
07 Jan 2014 14:52
https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/95bc1b5682d3504f50b5ce436a23df1914c2bd40

MSG-374 — provide notification of exported DBs

Daniel Zhang (張道博)
26 Dec 2013 16:50
Notification is provided upon sharing.

MSG-443 — add test for adding of reader permissions in exports

Daniel Zhang (張道博)
26 Dec 2013 16:47
https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/36df2d59ba84d00aa6750deafd6ea57df820f613

MSG-430 — provide shared link during notification

MSG-431 — change insert script to user-based insert script used during automatic data loading

Daniel Zhang (張道博)
26 Dec 2013 12:28
The user-based script is being used.

MSG-442 — fail on testGetFileIDsForFilename due to nonexistent file

Related to testing order.

Daniel Zhang (張道博)
24 Dec 2013 18:57
https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/b32953f1316a11dec57d65a34aa026a431d07b08

MSG-401 — Provide 1.0.0 release archive to GitHub

Daniel Zhang (張道博)
24 Dec 2013 13:43
Pre-release of 1.0.0 has been provided.

MSG-438 — log output is doubled during /test/test____msg_db_exporter.py

Doubling is occurring at start of test when the logger is accessed through an external module.

Daniel Zhang (張道博) 22 Dec 2013 22:13	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/3e6f2413d7c842ec6f05cacb8595d71f916c4f94
Daniel Zhang (張道博) 23 Dec 2013 02:17	Tests pass.

MSG-440 — failure on testUploadTestData due to filename check change

Daniel Zhang (張道博) 20 Dec 2013 16:24	Resolved by change to returning single file ID for filename search.

MSG-439 — ignore historical files in testGetFileIDForFilename

Daniel Zhang (張道博) 20 Dec 2013 16:23	Trashed files are ignored.

MSG-437 — fail on testGetFileIDForFilename

Daniel Zhang (張道博) 20 Dec 2013 15:52	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/0b5909fc7c716376a450dfbe55d4a78808cc59d8

MSG-441 — ignore trashed files in fileIDForFileName

Daniel Zhang (張道博) 20 Dec 2013 16:21	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/d5df5f6a0594c86f80b1a4e244c6f71622da3587

MSG-435 — add config option for read-access to export files

Daniel Zhang (張道博) 19 Dec 2013 16:10	Config option is read_permission. It's value is a list of email addresses.

MSG-429 — outdated export files are not being removed

Traceback (most recent call last):
  File "/home/daniel/Maui-Smart-Grid-1.0.0/bin/exportDBsToCloud.py", line 55, in <module>
    toCloud = True, testing = commandLineArgs.testing)
  File "/home/daniel/Maui-Smart-Grid-1.0.0/lib/python/msg_db_exporter.py", line 163, in exportDB
    days = self.configer.configOptionValue('Export', 'days_to_keep')))
TypeError: unsupported type for timedelta days component: str

Daniel Zhang (張道博) 16 Dec 2013 15:42	Added typecast.
Daniel Zhang (張道博) 17 Dec 2013 13:21	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/f7baab9cf53eab2aa70a469ee279f1c4c002382c

MSG-400 — Distribution

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

Daniel Zhang (張道博) 12 Sep 2013 16:43	Commit 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 14:44	Commit 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 15:52	Weather data results are verified to be reported.

MSG-231 — Meter Location History

MSG-423 — add power event data to meco_v3

Daniel Zhang (張道博) 11 Dec 2013 13:47	Data added to PowerMeterEvents.

MSG-425 — create power meter event insert script

Daniel Zhang (張道博) 11 Dec 2013 13:47	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/29c46d3c76e94c35f5dbef294f4aa526f2ceb3b2

MSG-424 — create new power meter event table

Daniel Zhang (張道博) 09 Dec 2013 13:55	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/46dd201cc0e98d1867145280748eeeb7873a31d2

MSG-348 — document automatic processes using crontab

Daniel Zhang (張道博) 04 Dec 2013 13:09	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/6a88c5e34757d64977e52b9026a1b001a27ba22e

MSG-396 — increase export queue timespan to 48 h

Daniel Zhang (張道博) 18 Nov 2013 14:15	Timespan has been set. Software install needs to be refreshed for the setting to be used.
Daniel Zhang (張道博) 03 Dec 2013 17:01	The 48 h timespan is being used.

MSG-419 — test ability to perform a user-based software update on SEP server where source code is modified

Daniel Zhang (張道博) 03 Dec 2013 17:17	Modified code was updated using the custom installer.

MSG-399 — switch automated processes to user-based install

Daniel Zhang (張道博) 03 Dec 2013 17:02	Processes were switched within the crontab.

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.

Daniel Zhang (張道博) 02 Dec 2013 16:31	Scripts installed to bin have an incorrect python binary path.
Daniel Zhang (張道博) 02 Dec 2013 17:55	Verified that /usr/bin/python is being used on SEP server during use of install-msg.py.

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.

Daniel Zhang (張道博) 02 Dec 2013 16:28	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/bda8284dd7be1b9f731964ba591e9a76b80142b9

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.

Daniel Zhang (張道博) 02 Dec 2013 15:17	Software version is obtained from setup.py. Install path is obtained from a command line arg.
Daniel Zhang (張道博) 02 Dec 2013 15:58	Need to add the package name.
Daniel Zhang (張道博) 02 Dec 2013 16:28	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/bda8284dd7be1b9f731964ba591e9a76b80142b9

MSG-421 — have tar extract use tarfile

Daniel Zhang (張道博)
02 Dec 2013 13:13
https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/35d433c1e80d4ad3c02f3d0a5d270c10da7b5d0d

MSG-405 — create install script

- Generate dist archive.
- Install using current code base.

Daniel Zhang (張道博)
27 Nov 2013 16:55
https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/c0ffd963e7101946f9b7ec3e67cf0e2b9060faf9

MSG-414 — generate view with uniform intervals for irradiance averages

Daniel Zhang (張道博)
25 Nov 2013 13:33
last commit: https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/e7c7d58f6d5b497bdb53c2bf2fcf0bb8160d602c

MSG-411 — average scada weather data at 15 min

Daniel Zhang (張道博)
20 Nov 2013 13:11
https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/54fd6a42f22c4d30edde4134e170908f7f13d3e4

MSG-404 — extract script from msg db exporter

This is needed for the installer.

Daniel Zhang (張道博)
12 Nov 2013 13:59
https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/78addd0632886d5372be035ebc0611fa299a1387

MSG-406 — add temp & humidity data from 2013_11_14_scada

Daniel Zhang (張道博)
19 Nov 2013 10:52
https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/4d2c5706cb0901e80b89033d5d0e7a466ee6aa80

Daniel Zhang (張道博)
19 Nov 2013 10:56
Runtime: 19 min

MSG-409 — insert aggregated irradiance data to a table

Daniel Zhang (張道博)
19 Nov 2013 10:57
https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/7c0d27e2c14404e0d2dc91ce93cc25938dd3ba0c

MSG-408 — generate aggregated irradiance data for 15 min intervals

Daniel Zhang (張道博)
19 Nov 2013 10:57
https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/a3a04a4260fa6d035cb9733394d119534b5f8b4c

MSG-402 — test scheduled msg_db_exporter for user-based install

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

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-392 — create db export unit test file

Daniel Zhang (張道博)   https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-

05 Nov 2013 17:28   Grid/commit/ab6279ba4957f9e59e156d1b5d4b0cc9c922d6a5

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

Daniel Zhang (張道博)   https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-

06 Nov 2013 13:56   Grid/commit/8ef6749080cba02a646cb4b2dedc10ac20e1f401

MSG-390 — add delete outdated to automatic export process

Daniel Zhang (張道博)   https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-

06 Nov 2013 13:54   Grid/commit/ec2ae38c3f880d371e70421511e2bfb8e1dac848

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.

Daniel Zhang (張道博)
05 Nov 2013 17:27

https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/15945fcd7113f5319b69c4455d717e60e652f807

MSG-388 — verify uploaded file by md5 checksum

Daniel Zhang (張道博)
04 Nov 2013 16:47

https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/a0694a84e621fbe8d70e5f238495974afdc79049

MSG-389 — retrieve md5sum of cloud-based files

Daniel Zhang (張道博)
04 Nov 2013 16:47

https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/a0694a84e621fbe8d70e5f238495974afdc79049

MSG-386 — perform instantaneous delete of outdated files

Daniel Zhang (張道博)
04 Nov 2013 13:04

https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/7eb434d7747951a86d9fb233026a1d8c571ff0e7

MSG-376 — parse upload results to determine success of upload

MSG-385 — report elapsed upload time

Daniel Zhang (張道博)
31 Oct 2013 17:36

https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/09c8cd78dfc0e246b97bb04727a64abc684d1eff

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MSG-387 — remove pprint output & recording from automatic job report

Daniel Zhang (張道博)
31 Oct 2013 17:37

https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/09c8cd78dfc0e246b97bb04727a64abc684d1eff

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MSG-379 — be able to report cloud storage free space

Daniel Zhang (張道博)
30 Oct 2013 22:13

https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/7b59e3230debea172731381403b38310c3532c63

MSG-384 — eliminate duplicate recorded log entries in the MSGLogger

Daniel Zhang (張道博)
30 Oct 2013 14:07

https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/238c3351db4d97900b9740eb30460c86036c349a
https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/5a852330a47fd8880cfcfe5a7ffa0e4c594c5faf

MSG-378 — add ability to record log messages within the logger object

Daniel Zhang (張道博)   https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-
29 Oct 2013 16:34   Grid/commit/32c13c3c0dc0249a4a2a87d74748a73003435845

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

Daniel Zhang (張道博)   https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-
29 Oct 2013 16:34   Grid/commit/32c13c3c0dc0249a4a2a87d74748a73003435845

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'

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-
29 Oct 2013 16:34   Grid/commit/87c073ee774b4879dbe4fbd5717a7924f1d0604f

MSG-382 — System Administration

MSG-375 — have automatic daily export be mirrored to cloud storage

Daniel Zhang (張道博)   https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-
26 Oct 2013 02:27   Grid/commit/0e02c82078f30c226e81ec6039fbcb34651d19ac

MSG-371 — store persistent cloud authentication token

This is to eliminate the need for verification upon every upload invocation.

Daniel Zhang (張道博)	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/f24d782533be987b821ac3ca692a19453ba4afd5
25 Oct 2013 17:30	

MSG-307 — remove house mappings

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-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 & TimedatetimeLarge 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

Daniel Zhang (張道博)	Problem is still occurring.
16 Oct 2013 13:05	
Daniel Zhang (張道博)	4911,4912,4913 are working.
16 Oct 2013 19:09	
Daniel Zhang (張道博)	4915 is offline.
17 Oct 2013 17:22	
Daniel Zhang (張道博)	The problem is no longer occurring at this time.
23 Oct 2013 15:47	

MSG-370 — Be able to write to cloud storage

Daniel Zhang (張道博)	Write was successful.
23 Oct 2013 17:46	

MSG-294 — write export to cloud storage

Daniel Zhang (張道博)	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/7ecca7a6433dca3f5ee2e3240a1fc9fa0019eac8
25 Oct 2013 14:20	

MSG-350 — install google api client library for python

Daniel Zhang (張道博)	Successfully installed using remote pip.
30 Sep 2013 16:31	

MSG-346 — setup daily meco_v3 export

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	

FC-4 — add additional filtering of invalid data by completeness during retrieval

Daniel Zhang (張道博)	Completeness is tested but invalid data is getting by the validity check.
22 Oct 2013 15:00	

Daniel Zhang (張道博)	The filtering has been in place. Somehow, it did not catch an invalid data condition causing the insertion script to be unable to process the data that was present. Manually clearing the existing data seems to have resolved the problem.
22 Oct 2013 18:02	

FC-3 — determine problem for 2215 error

reading file /usr/local/egauge-automatic-data-services/egauge-data-download/2013-Oct-01-Tue-00-20-02/egauge2221.csv...
reading file /usr/local/egauge-automatic-data-services/egauge-data-download/2013-Oct-01-Tue-00-20-02/egauge2225.csv...
DBD::Pg::st execute failed: ERROR: INSERT has more target columns than expressions
LINE 1: ... energy_autoload_new (house_id, datetime, use_kw, gen_kw, gr...
                                          ^ at /usr/local/egauge-automatic-data-services/bin/insertEgaugeData.pl line 281.
DBD::Pg::st execute failed: ERROR: INSERT has more target columns than expressions
LINE 1: ... energy_autoload_new (house_id, datetime, use_kw, gen_kw, gr...
                                          ^ at /usr/local/egauge-automatic-data-services/bin/insertEgaugeData.pl line 281.
gauge-automatic-data-services/egauge-data-download/2013-Sep-30-Mon-16-20-01"...
/usr/local/egauge-automatic-data-services/egauge-data-download/2013-Sep-30-Mon-17-20-01
Loading data in "/usr/local/egauge-automatic-data-services/egauge-data-download/2013-Sep-30-Mon-17-20-01"...
/usr/local/egauge-automatic-data-services/egauge-data-download/2013-Sep-30-Mon-18-20-01

Daniel Zhang (張道博)	Problem was determined to be invalid data that was present in the egauge download directory.
23 Oct 2013 17:25	

MSG-366 — correct column error for 4914

colAssoc = Range.Usage [kW]range_usage_kwWasher [kW]clotheswasher_kwGrid [kW]grid_kwDate & TimedatetimeLarge 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

Daniel Zhang (張道博)	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/0fda401abd313326a97db76e102812017edd7ed5
22 Oct 2013 13:08	

MSG-362 — create unit test data set

Daniel Zhang (張道博)	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/422522cdd52a6561d827afc03c8f51e9344be5fd
21 Oct 2013 14:52	

MSG-365 — determine cause of invalid data processing for 4914

Daniel Zhang (張道博)	Retrieval is timing out.
18 Oct 2013 15:31	

MSG-357 — Change performance time log messages to minute-seconds format

Daniel Zhang (張道博)	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/5b3bf553b74065a1b39fec35c00be99e487f9802
18 Oct 2013 13:26	

MSG-364 — suppress cron log output on no data found

Daniel Zhang (張道博)	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/2897de6ca69c6f9b426d23dbe3444d0afb08c23e
16 Oct 2013 17:10	

MSG-344 — document testing mode

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

MSG-359 — determine method of integration for eGauge service Perl-based installer with Python setup

Daniel Zhang (張道博)	The eGauge service has its own separate installer.
09 Oct 2013 16:45	

MSG-360 — add DB creation scripts to setup package

Daniel Zhang (張道博)	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/bf5cee817da6e1dbee0bac26e789e8d5d16df9c8
09 Oct 2013 16:43	

MSG-358 — get executable scripts to install to bin path

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-354 — Provide a locking mechanism on data being processed
Data being processed should not be accessible to any other processes.

Daniel Zhang (張道博) 03 Oct 2013 13:13	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/daba9623676e3ec97a6e497286f4faa7c4e9716a

MSG-329 — provide folder monitoring for automatic data processing

Daniel Zhang (張道博) 24 Sep 2013 16:04	Commit 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 16:35	Commit 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-352 — move autoloaded data after loading

Daniel Zhang (張道博) 02 Oct 2013 13:13	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/f54798b2da9d186435f7d31886ec605b9f6c6356

MSG-351 — be able to load MECO data from autoload location using the autoloader

Daniel Zhang (張道博) 01 Oct 2013 16:10	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/b5063c3d39c0c04d9eadc8c1c61c8d752bb6c481

MSG-342 — Provide location for bad data

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-341 — provide archive directory for previously loaded data

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-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

Daniel Zhang (張道博)
27 Sep 2013 16:10

Commit made by **Daniel Zhang (張道博)** on *2013-09-27T19:10:03-07:00*
https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/1a2fb12684e46182df25af9e0cc69f6525ebc235

> adding columns: #MSG-345 fixed

MSG-343 — remove debug output during data loading

Daniel Zhang (張道博)
26 Sep 2013 16:12

Data loading obeys the debug config option.

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

Daniel Zhang (張道博)
25 Sep 2013 15:47

Commit made by **Daniel Zhang (張道博)** on *2013-09-25T18:47:38-07:00*
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-331 — only output duplicate counts to the concise log if duplicates are present

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-244 — report records processed count during meter location history loading
Current count is line count.

Daniel Zhang (張道博)   Not needed at this time.
24 Sep 2013 16:26

MSG-338 — add msg egauge service to setup script

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-340 — add sample main config

Daniel Zhang (張道博)   Commit made by **Daniel Zhang (張道博)** on *2013-09-23T18:53:08-07:00*
23 Sep 2013 15:53   https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-
Grid/commit/2ef5a2a997cb3a18b5e7433a4ea0937782576482

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

MSG-339 — add sample egauge config

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 *2013-09-23T18:53:08-07:00*
23 Sep 2013 15:53   https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-
Grid/commit/2ef5a2a997cb3a18b5e7433a4ea0937782576482

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

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.

Daniel Zhang (張道博) 18 Sep 2013 17:21	Commit made by **Daniel Zhang (張道博)** on *2013-09-18T20:20:52-07:00* https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/31822283d7ed5dc72d9021635a4ff085fb2ff5d5 > working on setup: #MSG-322 In Progress
Daniel Zhang (張道博) 19 Sep 2013 17:06	Commit made by **Daniel Zhang (張道博)** on *2013-09-19T20:06:37-07:00* https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/7f6a85492e17b78ddf3203ee8e1a5f4bec2dde31 > developing setup script: #MSG-322 In Progress
Daniel Zhang (張道博) 20 Sep 2013 15:49	Commit made by **Daniel Zhang (張道博)** on *2013-09-20T18:49:10-07:00* 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) 20 Sep 2013 16:21	Commit made by **Daniel Zhang (張道博)** on *2013-09-20T19:21:23-07:00* https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/49b7b3dbe36fa1d221203bf50b0c938008272441 > Adding long description: #MSG-322 fixed

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MSG-205 — update data insert documentation

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

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FC-2 — change local install path to fc-based name

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

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

MSG-333 — add timestamp to retrieval results

Daniel Zhang (張道博)

13 Sep 2013 14:44

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

adding timestamp: #MSG-333 fixed

MSG-304 — add config docs for msg egauge service

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-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.

Daniel Zhang (張道博)

11 Sep 2013 13:10

Commit made by **Daniel Zhang (張道博)** on *2013-09-11T16:10:32-07:00*
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-327 — add summary count of dupes

Daniel Zhang (張道博)

10 Sep 2013 16:16

Commit 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-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.

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

This is related to Postfix.

Daniel Zhang (張道博) 05 Sep 2013 14:37	Fixed by modifying Postfix config (/etc/postfix/main.cf).

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'

Daniel Zhang (張道博)	Commit made by **Daniel Zhang (張道博)** on *2013-09-05T18:33:04-07:00*

05 Sep 2013 15:33	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/a5565d01bc31baa9cac94fcc0b5612224aeb503a

> insert uses weather data path: #MSG-325 fixed

MSG-312 — schedule automated retrieval & insertion

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

MSG-319 — enable weather data auto loading

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

MSG-323 — prevent retrieval of existing files

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

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-313 — Provide persistent notification data storage

This is for the purpose of tracking automatic notifications.

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

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

MSG-320 — write last reported time to notification history

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-309 — provide notification of newly loaded data

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

> working on notification: #MSG-309 In Progress

| Daniel Zhang (張道博) 02 Sep 2013 16:08 | Commit made by **Daniel Zhang (張道博)** on *2013-09-02T19:07:58-07:00* 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) 02 Sep 2013 17:37 | Commit made by **Daniel Zhang (張道博)** on *2013-09-02T20:37:06-07:00* https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/eebf31bc3528fec0e7200343d9b27a84cf6ce90a |

> reporting works: #MSG-309 fixed

MSG-303 — be able to insert egauge data

| 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-306 — alter table to include all columns present

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

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

MSG-302 — be able to retrieve egauge data

| 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-305 — add sequence for msg egauge service

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

MSG-298 — test data retrieval

MSG-159 — create separate plot during testing mode

| Daniel Zhang (張道博) | Commit made by **Daniel Zhang (張道博)** on *2013-06-12T17:52:21-07:00* |
| 12 Jun 2013 14:53 | 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) | Commit made by **Daniel Zhang (張道博)** on *2013-06-12T19:09:45-07:00* |
| 12 Jun 2013 16:09 | 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) | Separate plot during testing is generated. |
| 22 Aug 2013 13:59 | |

MSG-300 — adapt egauge service to msg

| Daniel Zhang (張道博) | Commit made by **Daniel Zhang (張道博)** on *2013-08-22T19:10:52-07:00* |
| 22 Aug 2013 16:11 | https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/d11661da07b4413a889e20c9f85c04616f93cf78 |

> initial adaptation: #MSG-300 fixed

MSG-299 — create data table

| Daniel Zhang (張道博) | Commit made by **Daniel Zhang (張道博)** on *2013-08-22T20:23:58-07:00* |
| 22 Aug 2013 17:25 | https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/8d8be3448b7230d3d996a1277428414199371dea |

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

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

Daniel Zhang (張道博)
22 Aug 2013 13:59

No longer loading static location records.

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

MSG-166 — add test for static location record loading

Daniel Zhang (張道博)
22 Aug 2013 13:58

No longer loading static location records.

MSG-165 — add test for static meter record loading

Daniel Zhang (張道博)
22 Aug 2013 13:57

No longer loading static meter records.

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

Daniel Zhang (張道博)
22 Aug 2013 13:54

Not a problem at this time.

MSG-130 — Add weather data loading to notifications

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

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

Daniel Zhang (張道博)

Commit made by **Daniel Zhang (張道博)** on *2013-07-30T17:47:28-07:00*

30 Jul 2013 14:47   https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/3f8a229e1836bbf15a497b50da90524f49d6ca31

> parse test fixed: #MSG-259 fixed

MSG-2 — Testing

Daniel Zhang (張道博)
14 May 2013 13:20

All tests pass.

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

Daniel Zhang (張道博)
30 Jul 2013 14:44

Dupe check tests pass.

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

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-296 — handle error during remove

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-271 — add copyright/license to src

Daniel Zhang (張道博)
20 Aug 2013 14:13

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

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

MSG-292 — remove source file after compress

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

Daniel Zhang (張道博)
19 Aug 2013 16:42

Commit made by **Daniel Zhang (張道博)** on *2013-08-19T19:40:47-07:00*
https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/2b7b3355ffcf884d6b618569a2f1452cdf64b392

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

MSG-268 — compress exported dbs

Daniel Zhang (張道博)
19 Aug 2013 16:32

Commit made by **Daniel Zhang (張道博)** on *2013-08-19T19:32:10-07:00*
https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/e97d2117add6ee3964036a88734a36d86aabd6ef

dbs are compressed: #MSG-268 fixed

MSG-276 — change multiprocessing instances to use config option

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-270 — update sample config in repo

Daniel Zhang (張道博)
16 Aug 2013 15:50

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

updating sample config: #MSG-270 fixed

MSG-283 — Error Handling

MSG-273 — update view meter_ids_for_houses_without_pv to work with mlh

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-281 — concise log is not being emailed

Daniel Zhang (張道博) 13 Aug 2013 17:38	Loader needs to use a queue.
Daniel Zhang (張道博) 13 Aug 2013 17:51	Commit made by **Daniel Zhang (張道博)** on *2013-08-13T20:51:25-07:00* 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) 14 Aug 2013 15:21	Commit made by **Daniel Zhang (張道博)** on *2013-08-14T18:21:21-07:00* 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) 14 Aug 2013 17:15	Commit made by **Daniel Zhang (張道博)** on *2013-08-14T20:15:35-07:00* https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/9bc0d6fb11400d6a275eca85246d2fc31a0c10d1 concise log is restored to email: #MSG-281 fixed

MSG-285 — test multiprocessing log results

Daniel Zhang (張道博) 14 Aug 2013 17:39	Multiprocessing results have correctly separated output.

MSG-286 — keyboard interrupt doesn't terminate multiprocessing

Daniel Zhang (張道博) 14 Aug 2013 17:46	Terminate works after double interrupt.

MSG-280 — add job id to parallel loader

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-278 — adjust live output during multiprocessing loading

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

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-272 — parallelize meco energy data loading

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

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-191 — create db dump script

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-153 — database connection messages are conflicting

Example from test____mecodbinserter.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.

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-202 — clean up unused views in meco_v3

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-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-265 — perform cleanup of unused decompressed files

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-239 — handle incomplete retrieval
... line 39, in downloadWeatherData
    curl.perform()
pycurl.error: (6, "Couldn't resolve host 'cdo.ncdc.noaa.gov'")

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-267 — parallelize secondary retrieval

Daniel Zhang (張道博) 05 Aug 2013 15:58	Use of map is impeded by forceDownload = True.
Daniel Zhang (張道博) 05 Aug 2013 16:20	Commit made by **Daniel Zhang (張道博)** on *2013-08-05T19:20:04-07:00* https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/5fa80d916f088994c6445de626be9e442445e74d > parallelized secondary retrieval: #MSG-267 fixed

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

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-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

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

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

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-264 — fix weather data retrieval

Map method only accepts sequence argument.

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-261 — rename config file

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

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

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-253 — move weather URL to site config

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-172 — add last date test for weather data loading

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-254 — move file download pattern to site config

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/recursivelyInsertData.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'

Daniel Zhang (張道博) 29 Jul 2013 15:56	Fixed in #MSG-223.

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

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

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

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

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-238 — prevent retrieval of existing weather data

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-247 — add views for unreferenced readings

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

Total readings = 10011736
MLH readings = 9730256
Difference = 281480

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-242 — support testing during insertion

Provide support for insertion to testing DBs.

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-245 — add view for readings by meter location history

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

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-240 — insert meter location history records

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-243 — support insertion of meter location history records

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-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'

Daniel Zhang (張道博)	Commit made by **Daniel Zhang (張道博)** on *2013-07-17T18:41:34-07:00*
17 Jul 2013 15:42	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/a4a05a2bf08fb361de8fd8cc6c1225bbfd6fb02e
	fixing logger warning: #MSG-223 fixed

MSG-232 — create location history table

Daniel Zhang (張道博)	Commit made by **Daniel Zhang (張道博)** on *2013-07-16T17:59:43-07:00*
16 Jul 2013 14:59	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/d85db14f6ceb50df012a90787ea2b6d522080556
	adding meter location history table: #MSG-232 fixed

MSG-237 — remove unnecessary weather data

Daniel Zhang (張道博)	Commit made by **Daniel Zhang (張道博)** on *2013-07-15T19:26:35-07:00*
15 Jul 2013 16:43	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/4b2be0d27db6d5e8988dde3ab550c45ea1d30c56
	restricting retrieval: #MSG-237 fixed

MSG-236 — load weather data to meco_v3

Daniel Zhang (張道博)	Data is loaded.
15 Jul 2013 15:35	
	Processed 546 days between 2012-01-01 to 2013-06-29, inclusive.

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.

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-233 — isolate days during weather data loading notifications

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-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-228 — set primary key on noaa table

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)	Commit made by **Daniel Zhang (張道博)** on *2013-07-08T22:08:55-07:00*
08 Jul 2013 19:09	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)	Commit made by **Daniel Zhang (張道博)** on *2013-07-08T22:10:58-07:00*
08 Jul 2013 19:11	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-226 — be able to insert parsed weather data to the db

Daniel Zhang (張道博)	Commit made by **Daniel Zhang (張道博)** on *2013-07-05T20:56:09-07:00*
05 Jul 2013 17:56	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)	Commit made by **Daniel Zhang (張道博)** on *2013-07-08T18:44:53-07:00*
08 Jul 2013 15:45	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/1e1d93fe429fed800d221aba94458260ea42ceeb

> parsed data is insertable: #MSG-226 fixed

MSG-225 — provide duplicate checking for noaa weather data

Daniel Zhang (張道博)	Commit made by **Daniel Zhang (張道博)** on *2013-07-09T20:26:59-07:00*
09 Jul 2013 17:27	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/f32d3eebf8c65f90e25d7e5603d6cb01723c92cf

> dupes are dropped: #MSG-225 fixed

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

Daniel Zhang (張道博)	These arguments are supported in insertCompressedWeatherData.py.
09 Jul 2013 15:55	

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

Daniel Zhang (張道博)	Commit made by **Daniel Zhang (張道博)** on *2013-07-05T19:13:07-07:00*
05 Jul 2013 16:13	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/d153118279a3896416787eb3e495541f32800077

> converted to dict structure: #MSG-227 fixed

MSG-224 — provide parsing of noaa weather data

Daniel Zhang (張道博)
04 Jul 2013 16:01

Commit made by **Daniel Zhang (張道博)** on *2013-07-04T19:01:33-07:00*
https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/20d69e9e64495fc213cd63a4d304b6430a702020

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

MSG-222 — support extract of local climate data

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
>
> 1. MSG-178 In Progress
> 2. 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
>
> 1. MSG-178 In Progress
> 2. MSG-222 In Progress

Daniel Zhang (張道博)
03 Jul 2013 17:47

Local climate data is extracted during insertion.

MSG-176 — support processing of NOAA weather data

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
>
> 1. MSG-178 In Progress
> 2. 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

1. MSG-178 In Progress
2. MSG-222 In Progress

Daniel Zhang (張道博)
03 Jul 2013 17:47

Weather data insertion is enabled by insertCompressedWeatherData.py.

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

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

1. MSG-178 In Progress
2. 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

1. MSG-178 In Progress
2. MSG-222 In Progress

Daniel Zhang (張道博)
03 Jul 2013 17:45

Support is provided by MSGWeatherDataDupeChecker.

MSG-220 — automatically obtain weather data

Daniel Zhang (張道博)
01 Jul 2013 17:18

Commit made by **Daniel Zhang (張道博)** on *2013-07-01T20:18:25-07:00*
https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/7399cd22fb82b843ec5cbc3cadd581f7294caa5b

national weather data is retrieved: #MSG-220 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-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

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-146 — create script for PV data loading

Daniel Zhang (張道博) 28 Jun 2013 13:06	PV data was added by Eileen.

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]<0rd,0re,37,37>—{0rd,0re}(0)[125]<0rd,0re,0,37>*

Daniel Zhang (張道博) 26 Jun 2013 23:25	Remaining dupes are attached.

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

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

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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

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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

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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-213 — eliminate duplicate log messages

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-212 — determine duplicate register records

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-207 — rewrite meter records

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-206 — rewrite location records

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

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-208 — count inserted readings separately

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

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

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-88 — reduce complexity in walkTheTreeFromRoot

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

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
	
	  1. MSG-140 fixed
	  2. MSG-139 fixed

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

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 1. MSG-140 fixed 2. MSG-139 fixed

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

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 1. MSG-140 fixed 2. MSG-139 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>*

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>*

MSG-200 — determine problem for duplicates not matching during sucessive 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

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

Daniel Zhang (張道博) 17 Jun 2013 00:28	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

```
_____
 Subquery Scan on dz_energy_voltages_for_houses_without_
   -> GroupAggregate  (cost=256592.58..257774.95 rows=3
         -> Sort  (cost=256592.58..256677.03 rows=33782
               Sort Key: "LocationRecords".device_util_i
               Sort Method: external merge  Disk: 166688
               -> Hash Join  (cost=9431.69..253012.00 r
                     Hash Cond: ("Reading".interval_id =
                     -> Seq Scan on "Reading"  (cost=0.
                           Filter: ((channel = 1::smalli
                     -> Hash  (cost=8802.15..8802.15 ro
                           Buckets: 2048  Batches: 256 (
                           -> Nested Loop  (cost=53.25.
                                 -> Hash Join  (cost=53
                                       Hash Cond: ("Inte
                                       -> Seq Scan on "
                                       -> Hash  (cost=5
                                             Buckets: 10
                                             -> Nested
                                                   -> H
```

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
```

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 mecologger to logging

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 mecologging: #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-145 — test support for testing mode in notifications

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

Daniel Zhang (張道博) 15 Jun 2013 01:57	Commit made by **Daniel Zhang (張道博)** on *2013-06-15T04:57:43-07:00* 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 w
  -> Sort  (cost=256592.58..256677.03 rows=33782 width
        Sort Key: "Interval".end_time
        Sort Method: external merge  Disk: 166688kB
        -> Hash Join  (cost=9431.69..253012.00 rows=33
              Hash Cond: ("Reading".interval_id = "Inte
              -> Seq Scan on "Reading"  (cost=0.00..19
                    Filter: ((channel = 1::smallint) OR
              -> Hash  (cost=8802.15..8802.15 rows=295
                    Buckets: 2048  Batches: 256 (origin
                    -> Nested Loop  (cost=53.25..8802.
                          -> Hash Join  (cost=53.25..1
                                Hash Cond: ("IntervalRe
                                -> Seq Scan on "Interv
                                -> Hash  (cost=52.96..
                                      Buckets: 1024  Ba
                                      -> Nested Loop
                                            -> Hash An
                                                  Hash
                                                  -> S
                                                  -> H
```

Daniel Zhang (張道博) 15 Jun 2013 02:02	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 |

| Daniel Zhang (張道博)
17 Jun 2013 00:30 | Corrected in #MSG-195. |

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

Email is getting sent without the email option.

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

| 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-179 — Add database name to plot

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

| Daniel Zhang (張道博)
12 Jun 2013 15:51 | Support is provided for in #MSG-179. |

MSG-163 — add timestamp to plot

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-174 — Update dependencies in the documentation

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-168 — add log legend

Daniel Zhang (張道博) 05 Jun 2013 17:35	Commit made by **Daniel Zhang (張道博)** on *2013-06-05T20:34:05-07:00* 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-35 — rebuild truncated testing data set from latest data export

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-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.

Daniel Zhang (張道博) 07 Jun 2013 13:35	The local debugging option works correctly when its value is properly evaluated.

MSG-17 — move debug option to local config

Daniel Zhang (張道博) 26 Mar 2013 18:08	Commit made by **Daniel Zhang** on *2013-03-26T21:08:16-07:00* 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.

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-158 — report sql failures through stderr during loading

MSG-133 — load weather data

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-173 — cleanup views

Daniel Zhang (張道博) 06 Jun 2013 16:46	Commit made by **Daniel Zhang (張道博)** on *2013-06-06T19:46:42-07:00* https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/5a6ab85ef69977a3269de83f2fa6725a6f2770ef removed view with camel case name: #MSG-173 fixed

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-162 — insert 2013_06_03_All_of_May_2013 to v4

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-161 — create v4 structure

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-160 — load month-long data set

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](25
0423){dupe on insert==>}*commit*{9968}[17](265152){dupe on insert==>}*commit*
{9968}[18](279881){dupe on insert==>}*commit*{9
968}[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 o
n insert==>}*commit*{9968}[25](383004){dupe on insert==>}*commit*{9968}[26]
(397732){dupe on insert==>}*commit*{9968}[27](412
461){dupe on insert==>}*commit*{9968}[28](427189){dupe on insert==>}*commit*
{9968}[29](441918){dupe on insert==>}*commit*{99
68}[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*{2476}[38](5657
65){dupe on insert==>}*commit*{2476}[39](571114){dupe on insert==>}*commit*
{2476}[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]
(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-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-164 — concise logs are not showing meaningful values for duplicates during insert
See #MSG-160.

FC-1 — verify proper db close after operations

MSG-137 — add parallel notes to documentation

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

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-102 — update config file documentation with notification parameters

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

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.

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-138 — add gridlines to count plot

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-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.

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-132 — load static location and meter records

MSG-109 — load energy data to production meco_v3

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-134 — transfer views from v2

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

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-114 — prepare full v3 data set for loading

Separate data by months.

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

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-122 — Views

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-124 — create reading-meter count graph script

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-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-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-69 — update test____mecoxmlparser.py to meco_v3

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

MSG-70 — update test____mecodupecheck.py to meco_v3

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-71 — update test____mecodbutil.py to meco_v3

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-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.

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) | Commit made by **Daniel Zhang (張道博)** on *2013-05-20T20:28:23-07:00* |
| 20 May 2013 17:28 | https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/52e776bd8ef48503672f99e9b10687e32d96ab8e |

> removing incorrect flag: #MSG-118 fixed

MSG-116 — verify local daily backup is present

MSG-93 — add destructors to db connecting classes

| Daniel Zhang (張道博) | Commit made by **Daniel Zhang (張道博)** on *2013-05-20T19:14:14-07:00* |
| 20 May 2013 16:14 | https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/12bc4eae1ffc0339819c0567438e8a05f512e9a6 |

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

MSG-115 — verify reading counts

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/recursivelyInsertData.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-112 — perform 14MB data loading test on test_meco

Daniel Zhang (張道博)
17 May 2013 15:20

Running with

$ time python -u ~/dzmbp-maui-smart-grid/src/recursivelyInsertData.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

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-111 — add explicit testing argument to recursive insert

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-110 — require explicit flag to send email on insert

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-107 — add db name to notification body

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
>
> 1. MSG-107 fixed
> 2. MSG-104 fixed
> 3. MSG-106 fixed

MSG-106 — perform test run of data loading notification

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
>
> 1. MSG-107 fixed
> 2. MSG-104 fixed
> 3. MSG-106 fixed

MSG-104 — add email notification option to recursive insert

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)

Commit made by **Daniel Zhang (張道博)** on *2013-05-15T18:13:25-07:00*

15 May 2013 15:13	https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/bc2e43f5b2ef5f17026b0a1fb5a44d0a25aa06dd
	email on data loading works: #MSG-57 fixed
	1. MSG-107 fixed
	2. MSG-104 fixed
	3. MSG-106 fixed

MSG-57 — send email on successful data insert

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
	1. MSG-107 fixed
	2. MSG-104 fixed
	3. MSG-106 fixed

MSG-103 — Support export of data to cloud storage

MSG-105 — create testing suite runner script

MSG-100 — be able to send an email message

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

| Daniel Zhang (張道博) 13 May 2013 14:55 | Commit made by **Daniel Zhang (張道博)** on *2013-05-13T17:55:38-07:00* https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/f85bc8a82cce5d690a21cf55f2bee0c7653c9d75 |
| | updating documentation for configuration file: #MSG-85 fixed |

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

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-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-89 — fix cursor error in recursive insert

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

Daniel Zhang (張道博)
10 May 2013 14:59

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

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

Daniel Zhang (張道博)
10 May 2013 16:50

The test completed successfully.

time python ~/dzmbp-maui-smart-grid/src/recursivelyInsertData.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-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

Daniel Zhang (張道博)

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

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

Daniel Zhang (張道博) 10 May 2013 15:03	The intention is to not process files that may not contain valid data.
Daniel Zhang (張道博) 13 May 2013 14:33	The script has support for filtering the log files. No further filtering will be performed at this time.

MSG-86 — Skip log files during recursive insert

Log files are denoted as *.log.xml.

Daniel Zhang (張道博) 10 May 2013 01:18	Commit made by **Daniel Zhang (張道博)** on *2013-05-10T04:18:45-07:00* https://github.com/Hawaii-Smart-Energy-Project/Maui-Smart-Grid/commit/5d2ce24cf14a2db047e1f5b63215d529ada004b8
	skipping log files during recursive insert: #MSG-86 fixed

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

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-82 — write recursive insert script

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-81 — Test insertion of actual data to meco_v3

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-80 — provide updated full structure dump for meco_v2

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-79 — Change foreign keys to cascade delete and update
This is to allow deleting of branches from their respective meter data roots.

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-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
```

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-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-60 — provide SQL dump file for meco_v3

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/005bf54cdf317ce67d8e52e32aaeefc89a8f1784 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-45 — Event Data

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-73 — process event text

The separate event text is not being handled.

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-75 — fix test____mecoxmlparser.py after breakage from refactoring

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-74 — verify that foreign keys are generated for event data

MSG-48 — change insertion code to handle event data

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

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-72 — verify event data is processed by testing suite
The loading of event data should be verifiable in the testing database.

Daniel Zhang (張道博)	Event data is being loaded to the testing database.

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

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-66 — migrate test_meco to meco_v3

Setup test_meco using the meco_v3 schema.

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-62 — add foreign keys to event data tables

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-46 — create tables for event data

MSG-59 — create sequences for event data tables

MSG-61 — Establish table ownership for sequences

MSG-63 — add primary keys to event tables

MSG-50 — update schema diagram

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-58 — setup remote login for enter encryption passphrase

MSG-44 — remove testing_meterdata table

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

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-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

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-53 — add UIQ vs net metering data as a table in the database

MSG-39 — verify database name in eraseTestMeco()

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

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MSG-28 — fix test___mecodbinserter.py

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-27 — transfer views from meco_v1 to meco_v2

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-26 — convert all sql execute calls to new method

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

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

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-36 — fix test___mecodupecheck.py

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

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

MSG-31 — fix test____mecoxmlparser.py

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-30 — fix test____mecodbutil.py

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

MSG-29 — fix test____mecodbread.py

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-8 — setup insert test data for dupe check test

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

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

Daniel Zhang (張道博) 17 Apr 2013 13:24	This has been accomplished in test___mecodupecheck.py.
Daniel Zhang (張道博) 17 Apr 2013 15:18	An equality check is performed during insertion of data and a separate test is not needed.

MSG-20 — meco_v2

MSG-5 — have meter data, meter IDs, be unique

Daniel Zhang (張道博) 15 Mar 2013 16:05	meter ids should be recorded once and only once
Daniel Zhang (張道博) 21 Mar 2013 17:44	this may not be necessary

MSG-18 — create meco_v2 from latest development

Daniel Zhang (張道博) 26 Mar 2013 18:06	Commit made by **Daniel Zhang** on *2013-03-26T21:06:14-07:00* 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) 01 Apr 2013 10:47	still need to add kahalui weather data
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-23 — insert oct 2012

MSG-22 — insert sep 2012

MSG-21 — insert aug 2012

MSG-25 — change parser to use in-memory file object instead of file on disk

this is for gzip support

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

MSG-24 — add creation timestamp to meter data table

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

> 1. MSG-24 In Progress
>
> adding creation timestamp upon insert

MSG-19 — eliminate duplicate data insertion in 2012 data

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

Daniel Zhang (張道博) 25 Mar 2013 01:44	Commit made by **Daniel Zhang** on *2013-03-25T04:40:24-07:00* 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) 25 Mar 2013 01:49	removed rollback when dupes are present. testing on meterName-endTime-channel is lower level than meterName-endTime.

Daniel Zhang (張道博) 25 Mar 2013 11:07	Commit made by **Daniel Zhang** on *2013-03-25T14:07:15-07:00* 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-11 — intercept duplicate channel data

Daniel Zhang (張道博) 22 Mar 2013 16:44	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.
Daniel Zhang (張道博) 22 Mar 2013 16:46	using a combined meterName-IntervalEndTime-channel field is possible to ensure data integrity.
Daniel Zhang (張道博) 25 Mar 2013 01:47	the reading branch is covered for duplicates now.

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

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

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

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

MSG-4 — perform dupe check prior to insertion

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

MSG-6 — insert test data to test_meco database

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

MSG-7 — reduce static test data set

MSG-1 — setup test XML source data for test___mecoxmlparser.py