Question:

* What do you do when an OANode is reconfigured? How do you update the database? Give it another unique tag and mark the node as inactive?

R = required

NR – not required

PK – Primary Key

FK – Foreign Key

UserInfo

* username (R) (PK)
* password (R)

(some secure hash) (or does MySQL already handle this?)

* email (R)
* phone (NR)
* first name (R)
* last name(NR)
* address line #1 (NR)
* address line #1 (NR)
* city (NR)
* state (NR)
* zip (NR)

Address needs to be registered to some other service so people put in well formed and valid addresses when they are supplied

UserConfig

* username (FK) (R)
* time since last activity (warning) (R)

Send an email/tweet/SMS indicating that the system is not responding. This time must be greater than 2 days and less than 7 days. This field will default to something like 2 days.

* ??

OANodeConfig

* username (FK) (R)
* node ID (PK) (R)

Need some sort of way to generate a unique hash tag. Needs to be loaded on the Arduino so that it’s packet stream can be verified.

* number of channels (R)
* channel names (separated by ‘;’) (NR)
* polling period (R)

Default to 10 seconds

* event number[array] (FK) (R)
* active (R)

OAServer has a listing of Node that need to be queried for data (A bunch of handler threads)

* time since last communication (R)
  + OAServer keeps track of the ‘time since last a

OANodeData

* sample number (PK) (R, automatic)
* timetag database (R, automatic)
* node ID (FK) (R)
* username (FK) (R)
* timetag sample (R)
* sample value[array of float?] (R)

OANodeEvent (this is also a way to create automate events)

* event number (PK) (R, automatic)
* timetag database (R, automatic)
* node ID (FK) (R)
* event type (ENUM: add plant, add fish, triggers (water, temp, humidity), execution time overrun, ex?) (R) (FK)
* severity (R) – (info, warning, critical, failure, etc)
* send SMS (R)
* send Twitter (R)
* send email (R)
* description (NR)
* ??

Event Type

* Event number (PK) (R, automatic)
* Name (R)
* Description (NR)

Accounting

* transaction ID (PK) (R, automatic)
* username (FK) (R)
* node ID (FK) (NR)
* transaction amount (R)
* description (NR)