



## System Overview

The PULS Metering system came about from discussions with professionals in the Marina Industry who were looking to streamline their operations through the use of an automated system. It is with the help of Marina Operators and Manufacturers we have been able to design PULS to be very simple to use, while providing a wide range of information to the Marina Operator, and reducing staff time to accurately charge and control utilities.

### Our easy-to-use software allows the operator to:

- Generate a monthly usage report at the press of a button.
- Turn unused taps and power outlets ON and OFF from the Office PC or remotely via iPad or smartphone.
- Cut off power and water to non-paying customers automatically.
- Invoice, record and control power & water consumption by individual berth.
- Save time and money by eliminating water wastage and over current issues.
- Integrate directly into Marina Management Software for completely automated billing of utilities.
- Report usage from a specific time and date.

Distributed by :

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**M-TECH**  
MARINETECHNOLOGIES

PULS Meter Manager

File Meters Berths Configure Events Reports Tools Help

Events Meters Berths Configure

Report Generator. Create specific reports eg. one berth only, report for a 1 week casual berth, etc...

Programmable billing report - set default billing period and this button will email you the totals for the period.

Activity Log

| Event Time            | Alarm No | Event Text                                      |
|-----------------------|----------|---|
| 12/11/2012 4:54:13 PM |          | Berth 105 : Reading 0 (0.06) kWh                |
| 12/11/2012 4:54:13 PM |          | Pier 1 : Disconnected                           |
| 12/11/2012 4:58:14 PM |          | Pier 1 : Connected                              |
| 12/11/2012 4:58:15 PM |          | Berth 102 - Power : Reading 0.005 (9.9980) kWh  |
| 12/11/2012 4:58:15 PM |          | Berth 103 : Reading 0 (0.031) kWh               |
| 12/11/2012 4:58:16 PM |          | Berth 102 - Water : Reading 0 (0.09) kWh        |
| 12/11/2012 4:58:16 PM |          | Berth 105 : Reading 0 (0.06) kWh                |
| 12/11/2012 4:58:16 PM |          | Pier 1 : Disconnected                           |
| 12/11/2012 5:02:17 PM |          | Pier 1 : Connected                              |
| 12/11/2012 5:02:18 PM |          | Berth 102 - Power : Reading 0.005 (10.0030) kWh |
| 12/11/2012 5:02:19 PM |          | Berth 103 : Reading 0 (0.031) kWh               |
| 12/11/2012 5:02:19 PM |          | Berth 102 - Water : Reading 0 (0.09) kWh        |
| 12/11/2012 5:02:20 PM |          | Berth 105 : Reading 0 (0.06) kWh                |
| 12/11/2012 5:02:20 PM |          | Pier 1 : Disconnected                           |
| 12/11/2012 5:06:21 PM |          | Pier 1 : Connected                              |
| 12/11/2012 5:06:22 PM |          | Berth 102 - Power : Reading 0.006 (10.0090) kWh |
| 12/11/2012 5:06:23 PM |          | Berth 103 : Reading 0 (0.031) kWh               |
| 12/11/2012 5:06:23 PM |          | Berth 102 - Water : Reading 0 (0.09) kWh        |
| 12/11/2012 5:06:24 PM |          | Berth 105 : Reading 0 (0.06) kWh                |
| 12/11/2012 5:06:24 PM |          | Pier 1 : Disconnected                           |
| 12/11/2012 5:10:25 PM |          | Pier 1 : Connected                              |
| 12/11/2012 5:10:26 PM |          | Berth 102 - Power : Reading 0.005 (10.0140) kWh |
| 12/11/2012 5:10:26 PM |          | Berth 103 : Reading 0 (0.031) kWh               |
| 12/11/2012 5:10:27 PM |          | Berth 102 - Water : Reading 0 (0.09) kWh        |
| 12/11/2012 5:10:27 PM |          | Berth 105 : Reading 0 (0.06) kWh                |
| 12/11/2012 5:10:27 PM |          | Pier 1 : Disconnected                           |
| 12/11/2012 5:14:28 PM |          | Pier 1 : Connected                              |
| 12/11/2012 5:14:29 PM |          | Berth 102 - Power : Reading 0.006 (10.0200) kWh |
| 12/11/2012 5:14:30 PM |          | Berth 103 : Reading 0 (0.031) kWh               |
| 12/11/2012 5:14:30 PM |          | Berth 102 - Water : Reading 0 (0.09) kWh        |
| 12/11/2012 5:14:31 PM |          | Berth 105 : Reading 0 (0.06) kWh                |
| 12/11/2012 5:14:31 PM |          | Pier 1 : Disconnected                           |
| 12/11/2012 5:20:21 PM |          | Scrolling On                                    |

Message Server started

**Berth Totals 12/10/2012 - 13/11/2012**

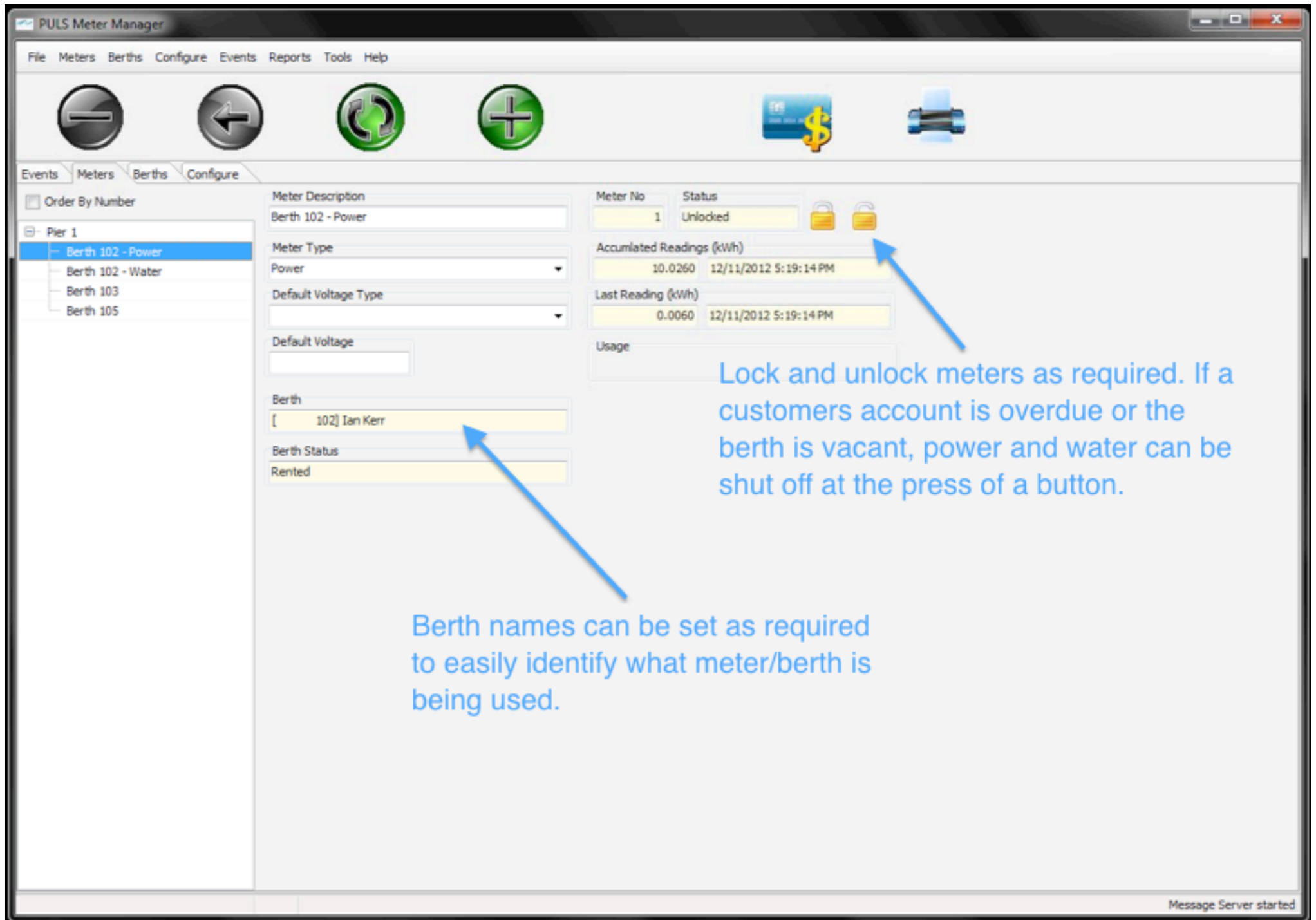
Billing Period  
(programmable)

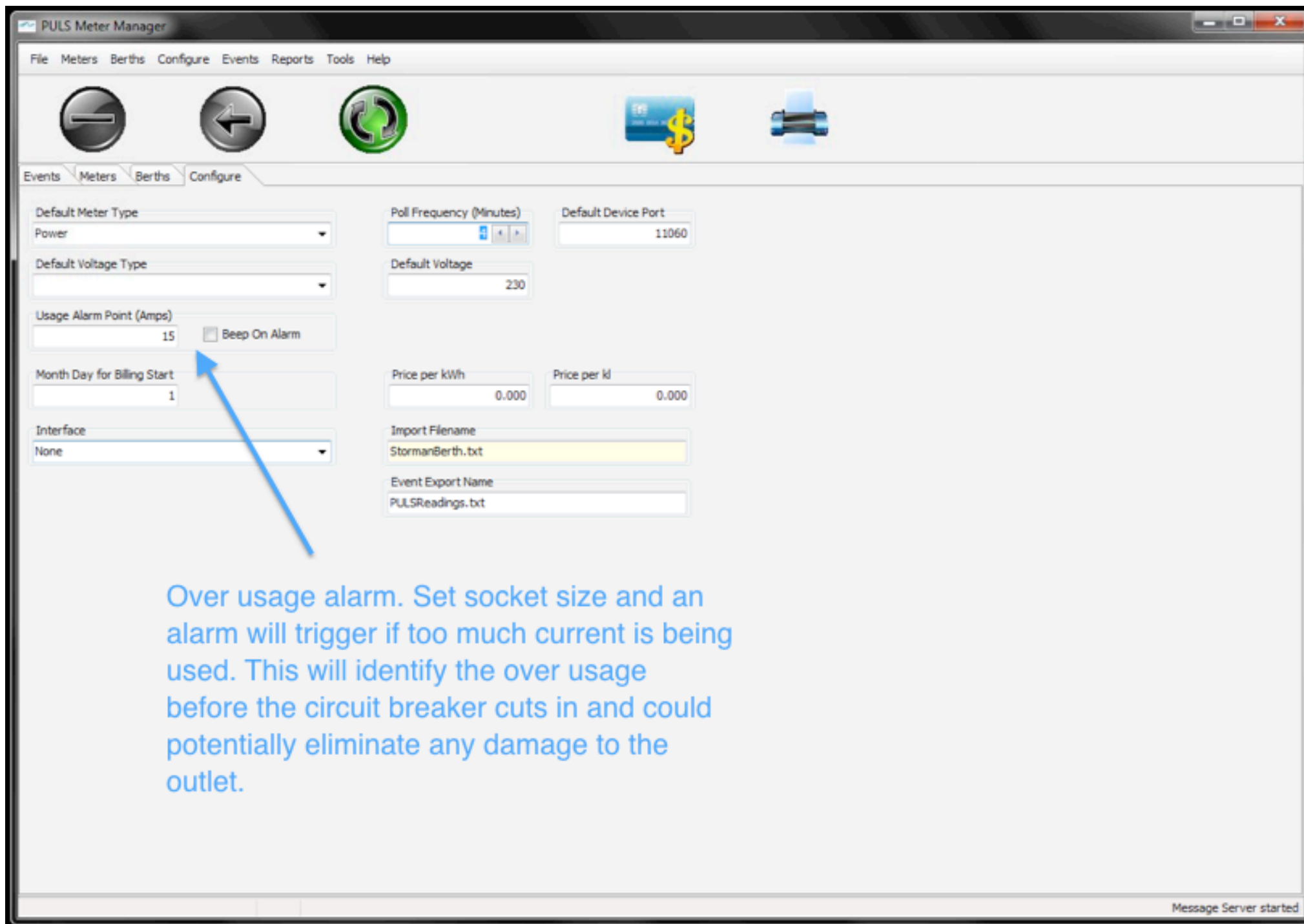
| Berth ID             | Berth Name | Meter Type | Usage Total | Units |
|----------------------|------------|------------|-------------|-------|
| Berth : Not Assigned |            | Power      | 0.1810      | kWh   |
| Berth : [ 100]       |            | Power      | 0.1450      | kWh   |
| Berth : [ 102]       |            | Power      | 9.6830      | kWh   |
| Berth : [ 103]       |            | Power      | 0.0000      | kWh   |
| Berth : [ 103]       |            | Water      | 0.0000      | kWh   |
| Berth : [ 104]       |            | Power      | 0.0000      | kWh   |
| Berth : [ 105]       |            | Power      | 0.0000      | kWh   |

Berth Name (programmable)

Total usage for the  
selected period.

# Sample Monthly Billing Report





Over usage alarm. Set socket size and an alarm will trigger if too much current is being used. This will identify the over usage before the circuit breaker cuts in and could potentially eliminate any damage to the outlet.