**Wireless Sensor Networks - Report templates**

This document contains information to produce reports for the FAIMMS facility.

Number of data reports: 3.

# 1. Wireless Sensor Networks

## 1.1 Data summary

### Filename: ‘WirelessSensorNetworks\_Summary’

### Description: ‘Data summary’

View to use:

|  |  |
| --- | --- |
| **Server** | dbprod.emii.org.au |
| **Database** | harvest |
| **Schema** | reporting |
| **View** | faimms\_data\_summary\_view |

Filters: None, all filters have already been applied.

Data sorting options: None, data are already sorted.

Data grouping options: No grouping required.

Total: Calculate the total number of sites, platforms, sensors, different parameters, along with the temporal, latitudinal, longitudinal, and depth range. *Use the following view: ‘totals\_view’; filter by: ‘facility’ = ‘FAIMMS’.*

***Total number of sites (‘no\_projects’): XX  
Total number of platforms (‘no\_platforms’): XX  
Total number of distinct parameters (‘no\_ instruments’): XX  
Total number of sensors (‘no\_deployments’): XX  
Total number of sensors with QAQC’d data (‘no\_data’): XX  
Total number of measurements (‘no\_data2’): XX  
Total number of QAQC’d measurements (‘no\_data3’):XX  
Total number of non-QAQC’d measurements (‘no\_data3’):XX  
Temporal range (‘temporal\_range’): XX  
Latitudinal range (‘lat\_range’): XX  
Longitudinal range (‘lon\_range’): XX  
Depth range (‘depth\_range’): XX***

Footnote: **# platforms**: Number of relay poles and sensor floats forming the sensor network. Relay poles typically transmit data recorded by multiple sensors mounted on sensor floats to a base station, which has a high-speed link back to the Australian mainland.  
**# QC’d data**: Number of sensors for which quality controlled data is transmitted.  
**Start**: Data recording earliest date (format: dd/mm/yyyy).  
**End**: Data recording latest date (format: dd/mm/yyyy).  
**# years of data (range)**: Number of years between the data recording start and end dates (minimum – maximum).  
**Wireless Sensor Networks**:<http://imos.org.au/wirelesssensornetworks.html>.

### Template

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **site\_name** | **no\_platforms** | **no\_sensors** | **qaqc\_data** | **no\_parameters** | **no\_measurements** | **earliest\_date** | **latest\_date** | **no\_data\_days** |
| Site name | # platform | # sensors | # QC’d data | # parameters | # measurements | Start | End | # years of data (range) |
|  |  |  |  |  |  |  |  |  |

## 1.2 Data report – all data on the portal

### Filename: ‘A\_WirelessSensorNetworks\_allData\_dataOnPortal’

### Description: ‘All data available on the portal’

Table to use:

|  |  |
| --- | --- |
| **Server** | dbprod.emii.org.au |
| **Database** | harvest |
| **Schema** | reporting |
| **Table** | faimms\_all\_deployments\_view |

Filters: None, all filters have already been applied.

Data sorting options: None, data are already sorted.

Data grouping options: Group by ‘site\_name’, sub-group by ‘platform\_code’.

Footnote: **Headers:** Deployment site name.  
**Sub-headers:** Name of the platform on which sensors are attached.  
**Sensor code**: Channel ID – parameter recorded.  
**Start**: Data recording start date (format: dd/mm/yyyy).  
**End**: Data recording end date (format: dd/mm/yyyy).  
**# years of data**: Number of years between the data recording start and end dates.  
**Wireless Sensor Networks**:<http://imos.org.au/wirelesssensornetworks.html>.

### Template

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **sensor\_code** | **sensor\_depth** | **qaqc** | **no\_qaqc** | **start\_date** | **end\_date** | **coverage\_duration** |
| Sensor code | Sensor depth | # QC’d measurements | # non QC’d measurements | Start | End | # years of data |
| Headers = ‘site\_name’ | | | | | | |
| Sub-headers = ‘platform\_code’ | | | | | | |
|  |  |  |  |  |  |  |

## 1.3 Data report – New data on the portal (last month)

### Filename: ‘B\_WirelessSensorNetworks\_newData’

### Description: ‘New data on the portal (since DATE)’

Table to use:

|  |  |
| --- | --- |
| **Server** | dbprod.emii.org.au |
| **Database** | harvest |
| **Schema** | reporting |
| **Table** | faimms\_all\_deployments\_view |

Filters: List all data for which ‘end\_date’ is less than one month.

Data sorting options: None, data are already sorted.

Data grouping options: Group by ‘site\_name’, sub-group by ‘platform\_code’.

Footnote: **Headers:** Deployment site name.  
**Sub-headers:** Name of the platform on which sensors are attached.  
**Sensor code**: Channel ID – parameter recorded.  
**Start**: Data recording start date (format: dd/mm/yyyy).  
**End**: Data recording end date (format: dd/mm/yyyy).  
**# years of data**: Number of years between the data recording start and end dates.  
**Wireless Sensor Networks**:<http://imos.org.au/wirelesssensornetworks.html>.

### Template

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **sensor\_code** | **sensor\_depth** | **qaqc** | **no\_qaqc** | **start\_date** | **end\_date** | **coverage\_duration** |
| Sensor code | Sensor depth | # QC’d measurements | # non QC’d measurements | Start | End | # years of data |
| Headers = ‘site\_name’ | | | | | | |
| Sub-headers = ‘platform\_code’ | | | | | | |
|  |  |  |  |  |  |  |