

Meter Data Collections Services Network Report Examples

AMI Network Dashboard

157.22.33.37:8080/LOMADemo/

LOMA PRIETA SYSTEMS Home Operations Provisions Reporting Add Meter Location

Serial Number:

Street:

City:

State or Province:

Postal Code:

Country:

Location:

2 kilometer

meter status ok
 meter status tamper
 meter status power out
 meter status meter hot
 meter status relay open
 meter status error present

go

Esri, HERE, Garmin, NGA, USGS

Meter SN	Street	City	State or Province	Postal Code
0020	10 Northern Blvd	Amherst	NH	03031
0024	5 Williamsburg Lane	Avon	CT	06001

Powered by Esri

Command input

LOMA PRIETA SYSTEMS

Home Operations Provisions Reporting Add Meter Location Add Meter Command

Esri, HERE, Garmin, NGA, USGS, NPS

Meter SN

0020

0024

State or Province

NH

CT

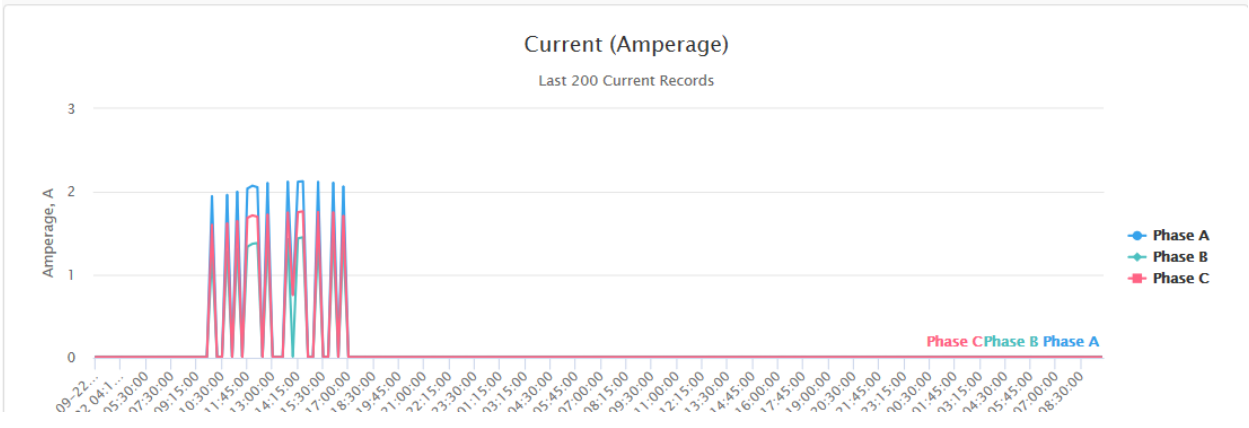
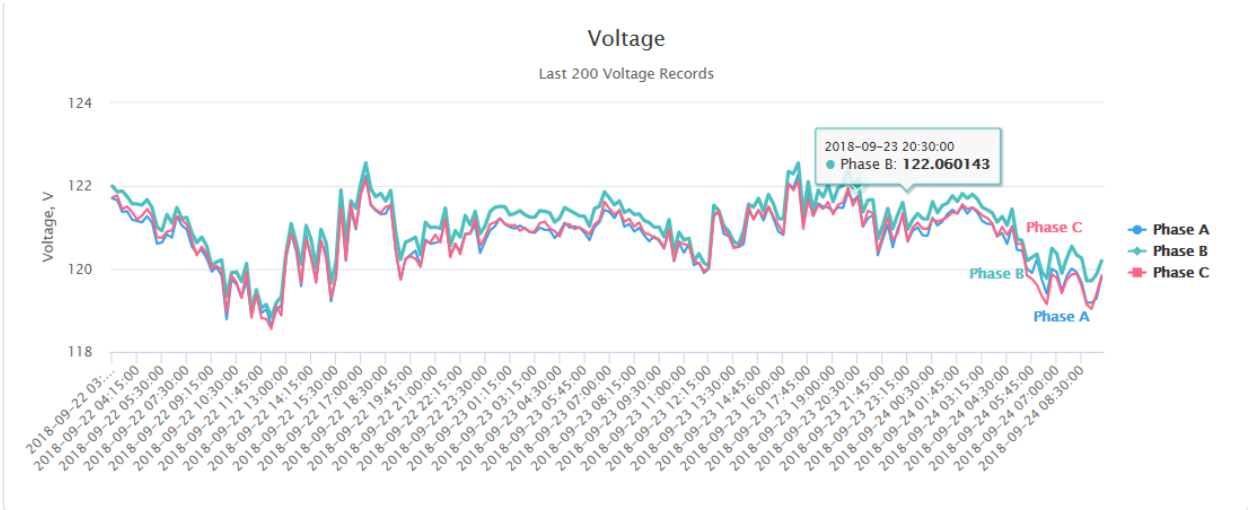
Meter Command

Meter SN:

- Periodic Data Report Enable
- Periodic Data Report Disable
- Report Interval = 1 minute
- Report interval = 5 minute
- Report interval = 15 minute
- Meter Restart
- Software Upgrade
- Relay ON
- Relay OFF

Submit Close


Graphical Analytics



Meter Reading AP

Wifi Setting
Send Data by Email
Data Report
OTA Update
Calibration
Reset Password

Meter SN: 0021
Release: 201808042
Status: HH
Active Energy F: 2.498981 kWh
Active Energy R: 0.000000 kWh
Active Power: 4799.446777 W
Active Power Demand: 2431.999683 WD
Reactive Energy C: 0.006000 kVARh
Reactive Energy I: 0.004000 kVARh
Reactive Power: -1.165602 VAR
Reactive Power Demand: 8.000001 VARD
Voltage: 239.951187 Vrms
Current: 20.000717 Arms 0.016252 Ar
Frequency: 49.987324 Hz
Temperature: 57.282124 DegC
Power Factor: 1.000000
Meter Time: Sun Sep 2 16:18:49 20
CT Ratio: 1000:5
Alarm:



JSON Server Data Access

```
← → ↻ 🏠 157.22.33.37:8080/LOMADemo/services/meter/getDataByMeter/1147.json ☆ ☆ 📄 📄 📄 ⋮
```

```
[{"meterSN":"1147A","timeStamp":"2018-07-16
15:35:00","status":"HH","voltage":"121.334610","current":"1.132535","powerFactor":"0.904515","temperature":"43.223316","activeEnergyF":"3.056197","activeEnergyR":"0.0
00000","activePower":"124.437447","activeDemand":"127.069473","reactiveEnergyC":"0.999110","reactiveEnergyI":"0.000000","reactivePower":"39.862804","reactiveDemand":"
39.606571","frequency":"60.005672","values":{"1147A","2018-07-16
15:35:00","HH","121.334610","1.132535","0.904515","43.223316","3.056197","0.000000","124.437447","127.069473","0.999110","0.000000","39.862804","39.606571","60.005672
"}},{"meterSN":"1147B","timeStamp":"2018-07-16
15:35:00","status":"HH","voltage":"120.830208","current":"1.235583","powerFactor":"0.746393","temperature":"43.785824","activeEnergyF":"2.807515","activeEnergyR":"0.0
00000","activePower":"111.569595","activeDemand":"115.880966","reactiveEnergyC":"2.241458","reactiveEnergyI":"0.000000","reactivePower":"89.865555","reactiveDemand":"
88.708878","frequency":"60.005672","values":{"1147B","2018-07-16
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"}},{"meterSN":"1147C","timeStamp":"2018-07-16
15:35:00","status":"HH","voltage":"121.720985","current":"0.759373","powerFactor":"0.822957","temperature":"45.164753","activeEnergyF":"1.847021","activeEnergyR":"0.0
00000","activePower":"78.167542","activeDemand":"80.413342","reactiveEnergyC":"1.390414","reactiveEnergyI":"0.000000","reactivePower":"53.270672","reactiveDemand":"53
.608894","frequency":"60.023792","values":{"1147C","2018-07-16
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}},{"meterSN":"1147A","timeStamp":"2018-07-16
15:25:00","status":"HH","voltage":"120.239143","current":"1.117052","powerFactor":"0.904390","temperature":"43.344410","activeEnergyF":"3.035618","activeEnergyR":"0.0
00000","activePower":"121.492981","activeDemand":"127.069473","reactiveEnergyC":"0.992509","reactiveEnergyI":"0.000000","reactivePower":"39.622002","reactiveDemand":"
39.606571","frequency":"59.969910","values":{"1147A","2018-07-16
15:25:00","HH","120.239143","1.117052","0.904390","43.344410","3.035618","0.000000","121.492981","127.069473","0.992509","0.000000","39.622002","39.606571","59.969910
"}},{"meterSN":"1147B","timeStamp":"2018-07-16
15:25:00","status":"HH","voltage":"119.618446","current":"1.216294","powerFactor":"0.755134","temperature":"43.887390","activeEnergyF":"2.788834","activeEnergyR":"0.0
00000","activePower":"109.867683","activeDemand":"115.880966","reactiveEnergyC":"2.226873","reactiveEnergyI":"0.000000","reactivePower":"86.174034","reactiveDemand":"
88.708878","frequency":"59.969910","values":{"1147B","2018-07-16
15:25:00","HH","119.618446","1.216294","0.755134","43.887390","2.788834","0.000000","109.867683","115.880966","2.226873","0.000000","86.174034","88.708878","59.969910
"}},{"meterSN":"1147C","timeStamp":"2018-07-16
15:25:00","status":"HH","voltage":"120.917923","current":"0.785424","powerFactor":"0.827309","temperature":"45.375694","activeEnergyF":"1.834019","activeEnergyR":"0.0
00000","activePower":"78.692062","activeDemand":"80.413342","reactiveEnergyC":"1.381413","reactiveEnergyI":"0.000000","reactivePower":"53.102985","reactiveDemand":"53
.608894","frequency":"59.969910","values":{"1147C","2018-07-16
15:25:00","HH","120.917923","0.785424","0.827309","45.375694","1.834019","0.000000","78.692062","80.413342","1.381413","0.000000","53.102985","53.608894","59.969910"]
}},{"meterSN":"1147A","timeStamp":"2018-07-16
15:20:00","status":"HH","voltage":"120.538383","current":"1.115265","powerFactor":"0.903111","temperature":"43.344410","activeEnergyF":"3.025329","activeEnergyR":"0.0
00000","activePower":"121.518013","activeDemand":"127.069473","reactiveEnergyC":"0.989109","reactiveEnergyI":"0.000000","reactivePower":"39.324772","reactiveDemand":"
39.606571","frequency":"59.951790","values":{"1147A","2018-07-16
15:20:00","HH","120.538383","1.115265","0.903111","43.344410","3.025329","0.000000","121.518013","127.069473","0.989109","0.000000","39.324772","39.606571","59.951790
"}},{"meterSN":"1147B","timeStamp":"2018-07-16
15:20:00","status":"HH","voltage":"120.017273","current":"1.208324","powerFactor":"0.755064","temperature":"43.910828","activeEnergyF":"2.779444","activeEnergyR":"0.0
00000","activePower":"110.121597","activeDemand":"115.880966","reactiveEnergyC":"2.219580","reactiveEnergyI":"0.000000","reactivePower":"86.685043","reactiveDemand":"
88.708878","frequency":"59.951790","values":{"1147B","2018-07-16
15:20:00","HH","120.017273","1.208324","0.755064","43.910828","2.779444","0.000000","110.121597","115.880966","2.219580","0.000000","86.685043","88.708878","59.951790
"}},{"meterSN":"1147C","timeStamp":"2018-07-16
15:20:00","status":"HH","voltage":"121.170242","current":"0.785821","powerFactor":"0.825579","temperature":"45.391319","activeEnergyF":"1.827417","activeEnergyR":"0.0
00000","activePower":"78.556564","activeDemand":"80.413342","reactiveEnergyC":"1.377012","reactiveEnergyI":"0.000000","reactivePower":"53.749100","reactiveDemand":"53
.608894","frequency":"59.987553","values":{"1147C","2018-07-16
15:20:00","HH","121.170242","0.785821","0.825579","45.391319","1.827417","0.000000","78.556564","80.413342","1.377012","0.000000","53.749100","53.608894","59.987553"]
}},{"meterSN":"1147A","timeStamp":"2018-07-16
15:10:00","status":"HH","voltage":"120.331245","current":"1.124607","powerFactor":"0.905755","temperature":"43.418633","activeEnergyF":"3.004850","activeEnergyR":"0.0
00000","activePower":"122.660835","activeDemand":"127.069473","reactiveEnergyC":"0.982708","reactiveEnergyI":"0.000000","reactivePower":"39.161854","reactiveDemand":"
39.606571","frequency":"59.987553","values":{"1147A","2018-07-16
15:10:00","HH","120.331245","1.124607","0.905755","43.418633","3.004850","0.000000","122.660835","127.069473","0.982708","0.000000","39.161854","39.606571","59.987553
"}},{"meterSN":"1147B","timeStamp":"2018-07-16
15:10:00","status":"HH","voltage":"119.782669","current":"1.225728","powerFactor":"0.757595","temperature":"43.949890","activeEnergyF":"2.760763","activeEnergyR":"0.0
00000","activePower":"111.225479","activeDemand":"115.880966","reactiveEnergyC":"2.205195","reactiveEnergyI":"0.000000","reactivePower":"86.847969","reactiveDemand":"
88.708878","frequency":"60.005672","values":{"1147B","2018-07-16
```

Stored Accuracy Information

SN	VOLTAGE				CURRENT			
	HEX	DEC	VLEFT	E	HEX	DEC	ILEFT	E
206	254938	2443576	239.9654	-0.014%	26C20	158752	9.999256	0.000%
207	258878	2459768	240.0007	0.000%	267F6	157686	10.00067	0.000%
208	259C48	2464840	240.0637	0.027%	26934	158004	10.00512	-0.002%
209	25600E	2449422	240.1236	0.051%	26A72	158322	10.00687	-0.003%
210	25496A	2443626	240.0345	0.014%	269EF	158191	10.01342	-0.006%
214	254A92	2443922	240.0493	0.021%	267D4	157652	9.998242	0.001%
216	2580FB	2457851	240.0815	0.034%	26B2A	158506	10.00444	-0.002%
217	255D36	2448694	240.02	0.008%	267F9	157689	10.0018	-0.001%
219	2591E9	2462185	240.122	0.051%	26944	158020	10.0032	-0.001%
AVERAGE	256CAD	2452654	240.0512	0.021%	2698B	158091.3	10.00367	0.037%
STD				0.022%				0.002%

JSON over Wi-Fi Access



The image shows a browser window with the address bar containing the URL `192.168.4.1/metric/getsnapshotmetrics`. Below the browser window, the JSON response is displayed as follows:

```
{
  "MeterSN": "LOMA111",
  "Time": "00/00/0 00:00:00",
  "PhaseA": {
    "Status": "HH",
    "Voltage": "6.018329",
    "Current": "0.386337",
    "PowerFactor": "0.000000",
    "Temperature": "31.094225",
    "ActiveEnergyF": "0.000000",
    "ActiveEnergyR": "0.000000",
    "ActivePower": "0.000000",
    "ActiveDemand": "0.000000",
    "ReactiveEnergyC": "0.000000",
    "ReactiveEnergyI": "0.000000",
    "ReactivePower": "0.000000",
    "ReactiveDemand": "0.000000",
    "Frequency": "0.000000"
  }
}
```


SQL Data Warehousing

MeterSN:

MeterSN	Time Stamp	Status/Release Volts	V	Current	PF	Temp	Active				Reactive			
			Volts	Amperes	Φ	Deg.C	kWh F	kWh R	W	WD	kVARh C	kVARh I	VAR	VARD
LOMAXX004A	2018-09-27 12:15:00	04 20180924	239.236923	0.012477	-0.983696	47.473381	0.014000	0.100000	-0.047684	12.000002	0.012000	0.171000	-0.572205	8.000001
LOMAXX004B	2018-09-27 12:15:00	HH Processed		0.013133										
LOMAXX004C	2018-09-27 12:15:00	HH INTERVAL=5												
LOMAXX004A	2018-09-27 12:10:00	04 20180924	239.060562	0.012239	-0.972826	47.477287	0.014000	0.100000	-0.063578	12.000002	0.012000	0.171000	-0.524521	8.000001
LOMAXX004B	2018-09-27 12:10:00	HH Processed		0.013292										
LOMAXX004C	2018-09-27 12:10:00	HH INTERVAL=5												
LOMAXX004A	2018-09-27 12:05:00	04 20180924	239.094940	0.012358	-0.983696	47.457756	0.014000	0.100000	-0.063578	12.000002	0.012000	0.171000	-0.540416	8.000001
LOMAXX004B	2018-09-27 12:05:00	HH Processed		0.013153										
LOMAXX004C	2018-09-27 12:05:00	HH INTERVAL=5												
LOMAXX004A	2018-09-27 12:00:00	04 20180924	239.536255	0.012298	-0.978261	47.481194	0.014000	0.100000	-0.063578	12.000002	0.012000	0.171000	-0.556310	8.000001
LOMAXX004B	2018-09-27 12:00:00	HH Processed		0.013292										
LOMAXX004C	2018-09-27 12:00:00	HH INTERVAL=5												
LOMAXX004A	2018-09-27 11:55:00	04 20180924	239.383377	0.012259	-0.988889	47.492912	0.014000	0.100000	-0.079473	12.000002	0.012000	0.170000	-0.556310	8.000001
LOMAXX004B	2018-09-27 11:55:00	HH Processed		0.013073										
LOMAXX004C	2018-09-27 11:55:00	HH INTERVAL=5												
LOMAXX004A	2018-09-27 11:50:00	04 20180924	239.082947	0.012179	-0.989247	47.477287	0.014000	0.100000	-0.079473	12.000002	0.012000	0.170000	-0.524521	8.000001