# ECC Polling API

# File: /api/DashData.xml

Description: This file returns the live data for the specified MTU or for the household NET, LOAD, or Generation

Parameters:

* T: Return power or cost data. Values: 0=Power/Energy 1=Cost
* D: Determines the type of data being returned. 0=NET, 1=LOAD, 2=Generation, 255=MTU
* M: The index of the MTU being displayed. Only used if D=255

Example (Returns the power information for MTU #2): <http://192.168.1.7/api/DashData.xml?T=0&D=255&M=2>

Returned values:

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| Example |
| <DashData>  <Now>5358</Now>  <TDY>67085</TDY>  <MTD>918688</MTD>  <Avg>94372</Avg>  <Proj>2831168</Proj>  <Voltage>1222</Voltage>  <Phase>195</Phase>  </DashData> |

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| **Field** | **Description** | **Power/Energy Units** | **Cost Units** |
| Now | The most recent reading from the MTU/household | Watts | Cents |
| TDY | The cumulative readings since midnight | Watts | Cents |
| MTD | The cumulative readings since the beginning of the billing cycle | Watts | Cents |
| Avg | The average daily cumulative readings | Watts | Cents |
| Proj | The projected cumulative readings for the current billing cycle | Watts | Cents |
| Voltage | The most recent voltage reading | Volts \* 100 | Volts \* 100 |
| Phase | The type of phase being reported for the MTU. For NET/LOAD/GEN this is the value from MTU1 | MTU6K  PROMODE  193: 1PH\_2W  195: 1PH\_Split  196: 1PH\_3W  199: 3PH\_4W  129: 1PH\_2W  131: 1PH\_Split  133: 1PH\_3W | MTU3K  0-3P\_4W\_WYE  1-3P\_3W\_DELTA  3-3P\_4W\_DELTA  4-1P\_3W  5-1P\_3W\_Split  6-1P\_2W |

# File: /api/Rate.xml

Description: The file returns the live data for the current system costs and demand charges

Parameters: None

Example: <http://192.168.1.7/Rate.xml>

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| Example XML |
| <Rate>  <Time>1378849061</Time>  <Value>10000</Value>  <Tier>0</Tier>  <TOU>1</TOU>  <MeterReadDate>1</MeterReadDate>  <DaysLeft>20</DaysLeft>  <PlanType>2</PlanType>  <TOUDesc>Off-Peak</TOUDesc>  <DemandCharge>  <InUse>TRUE</InUse>  <Power>11512</Power>  <Cost>1151</Cost>  </DemandCharge>  </Rate> |

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| **Field** | **Description** | **Units** |
| Time | Current Epoch Time of the system | Seconds since midnight 1/1/1970 GMT |
| Value | Current Rate in effect | $/hr \* 100000 |
| Tier | 0-based index of the Tier currently in effect. If Tier based pricing is not used, this value will be 0 |  |
| TOU | 0-based index of the TOU level currently in effect. 0 is the highest peak value. |  |
| TOUDesc | The text based description of the TOU level currently in effect. |  |
| PlanType | The Plan Type chosed for the household | 1. Flat 2. Tier 3. TOU 4. Tier+TOU |
| MeterReadDate | The day of the month that starts the billing cycle |  |
| DaysLeft | The number of days left in the billing cycle |  |
| DemandChage/InUse | TRUE if the utility applies demand charges |  |
| DemandCharge/Power | The Apparent or Active Power recorded at the highest peak | Watts or VA |
| DemandCharge/Cost | The amount being charged for the hights peak | Cents |

# File: /api/SystemOverview.xml

Description: Provides a system overview of each MTU in the system.

Parameters:

* T: Return power or cost data. Values: 0=Power/Energy 1=Cost

Example (Returns the power information): http://192.168.1.7/api/SystemOverview.xml?T=0

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| Example XML |
| <DialDataDetail>  <MTUVal>  <MTU1>  <Value>5402</Value>  <KVA>6159</KVA>  <PF>877</PF>  <Voltage>1221</Voltage>  <Phase>195</Phase>  <Conn>10</Conn>  <PhaseCurrent>  <A>0</A>  <B>0</B>  <C>0</C>  </PhaseCurrent>  <PhaseVoltage>  <A>0</A>  <B>0</B>  <C>0</C>  </PhaseVoltage>  </MTU1>  <MTU2>  <Value>0</Value>  <KVA>0</KVA>  <PF>0</PF>  <Voltage></Voltage>  <Phase>0</Phase>  <Conn>10</Conn>  <PhaseCurrent>  <A>0</A>  <B>0</B>  <C>0</C>  </PhaseCurrent>  <PhaseVoltage>  <A>0</A>  <B>0</B>  <C>0</C>  </PhaseVoltage>  </MTU2>  <MTU3>  <Value>0</Value>  <KVA>0</KVA>  <PF>0</PF>  <Voltage></Voltage>  <Phase>0</Phase>  <Conn>10</Conn>  <PhaseCurrent>  <A>0</A>  <B>0</B>  <C>0</C>  </PhaseCurrent>  <PhaseVoltage>  <A>0</A>  <B>0</B>  <C>0</C>  </PhaseVoltage>  </MTU3>  <MTU4>  <Value>0</Value>  <KVA>0</KVA>  <PF>0</PF>  <Voltage></Voltage>  <Phase>0</Phase>  <Conn>10</Conn>  <PhaseCurrent>  <A>0</A>  <B>0</B>  <C>0</C>  </PhaseCurrent>  <PhaseVoltage>  <A>0</A>  <B>0</B>  <C>0</C>  </PhaseVoltage>  </MTU4>  </MTUVal>  </DialDataDetail> |

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| **Field** | **Description** | **Power/Energy Units** | **Cost Units** |
| Value | The most recent reading from the MTU/household | Watts | Cents |
| KVA | The most recent apparent Apparent Power reading for the MTU | VA | VA |
| PF | The most recent Power Factor reading | Percentage \* 100 | Percentage \* 100 |
| Voltage | The most recent voltage reading | Volts \* 100 | Volts \* 100 |
| Phase Voltage | The individual voltage readings from wach phase | Volts \* 100 | Volts \* 100 |
| Voltage | The most recent voltage reading | Volts \* 100 | Volts \* 100 |
| Phase | The type of phase being reported for the MTU. For NET/LOAD/GEN this is the value from MTU1 | MTU6K  PROMODE  193: 1PH\_2W  195: 1PH\_Split  196: 1PH\_3W  199: 3PH\_4W  129: 1PH\_2W  131: 1PH\_Split  133: 1PH\_3W | MTU3K  0-3P\_4W\_WYE  1-3P\_3W\_DELTA  3-3P\_4W\_DELTA  4-1P\_3W  5-1P\_3W\_Split  6-1P\_2W |
| PhaseCurrent | The most recent individual current readings fro each phase | Amps \* 10 | Amps \* 10 |
| Conn | The connectivity health of the MTU. | 0-10:  0 – no packets received  10 – no packets lost |  |

# File: /api/SystemSettings.xml

Description: The operational settings of the ECC

Parameters: None

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| Example XML |
| <SystemSettings>  <NumberMTU>1</NumberMTU>  <NumberSpyder>1</NumberSpyder>  <NumberDisplay>0</NumberDisplay>  <DateTime>  <UseServer>1</UseServer>  <ServerAddress>pool.ntp.org</ServerAddress>  <UseDLST>1</UseDLST>  <InDLST>1</InDLST>  <TimeZone>-5</TimeZone>  </DateTime>  <ZipCode>1234</ZipCode>  <WxUseLatLon>0</WxUseLatLon>  <WxLat>3282</WxLat>  <WxLon>-7986</WxLon>  <Configuration>  <SystemType>0</SystemType>  <MTUType1>0</MTUType1>  <MTUType2>0</MTUType2>  <MTUType3>0</MTUType3>  <MTUType4>0</MTUType4>  </Configuration>  <USNAP>  <USNAPType1>0</USNAPType1>  <USNAPType2>0</USNAPType2>  </USNAP>  <MTUPollingDelay>1</MTUPollingDelay>  <MTUs>  <MTU>  <MTUNumber>1</MTUNumber>  <MTUID>00013A</MTUID>  <MTUDescription>panel</MTUDescription>  <PowerCalibrationFactor>1000</PowerCalibrationFactor>  <VoltageCalibrationFactor>1000</VoltageCalibrationFactor>  <UseTCP>0</UseTCP>  <MTUIP>0.0.0.0</MTUIP>  </MTU>  <MTU>  <MTUNumber>2</MTUNumber>  <MTUID>000000</MTUID>  <MTUDescription></MTUDescription>  <PowerCalibrationFactor>1000</PowerCalibrationFactor>  <VoltageCalibrationFactor>1000</VoltageCalibrationFactor>  <UseTCP>0</UseTCP>  <MTUIP>0.0.0.0</MTUIP>  </MTU>  <MTU>  <MTUNumber>3</MTUNumber>  <MTUID>000000</MTUID>  <MTUDescription></MTUDescription>  <PowerCalibrationFactor>1000</PowerCalibrationFactor>  <VoltageCalibrationFactor>1000</VoltageCalibrationFactor>  <UseTCP>0</UseTCP>  <MTUIP>0.0.0.0</MTUIP>  </MTU>  <MTU>  <MTUNumber>4</MTUNumber>  <MTUID>000000</MTUID>  <MTUDescription></MTUDescription>  <PowerCalibrationFactor>1000</PowerCalibrationFactor>  <VoltageCalibrationFactor>1000</VoltageCalibrationFactor>  <UseTCP>0</UseTCP>  <MTUIP>0.0.0.0</MTUIP>  </MTU>  <PEUAT>10</PEUAT>  <PVAT>10</PVAT>  </MTUs>  <Gateway>  <GatewayID>260299</GatewayID>  <GatewayDescription>Home</GatewayDescription>  </Gateway>  <Displays>  <Display>  <DisplayNumber>1</DisplayNumber>  <DisplayID>000000</DisplayID>  <DisplayDescription></DisplayDescription>  </Display>  <Display>  <DisplayNumber>2</DisplayNumber>  <DisplayID>000000</DisplayID>  <DisplayDescription></DisplayDescription>  </Display>  <Display>  <DisplayNumber>3</DisplayNumber>  <DisplayID>000000</DisplayID>  <DisplayDescription></DisplayDescription>  </Display>  <Display>  <DisplayNumber>4</DisplayNumber>  <DisplayID>000000</DisplayID>  <DisplayDescription></DisplayDescription>  </Display>  </Displays>  <Thermostats>  <NumberIPT>0</NumberIPT>  <Thermostat>  <IPTNumber>1</IPTNumber>  <IPTAddress>0.0.0.0</IPTAddress>  <IPTDescription></IPTDescription>  <RTAType>0</RTAType>  </Thermostat>  <Thermostat>  <IPTNumber>2</IPTNumber>  <IPTAddress>0.0.0.0</IPTAddress>  <IPTDescription></IPTDescription>  <RTAType>0</RTAType>  </Thermostat>  <StatRefresh>5</StatRefresh>  </Thermostats>  <CarbonCost>155</CarbonCost>  <NetworkSettings>  <UseDHCP>0</UseDHCP>  <IPAddress>192.168.1.12</IPAddress>  <SubnetMask>255.255.255.0</SubnetMask>  <GatewayAddress>192.168.1.1</GatewayAddress>  <PrimaryDNSServer>8.8.8.8</PrimaryDNSServer>  <SecondaryDNSServer>0.0.0.0</SecondaryDNSServer>  <NetBiosName>PETETED </NetBiosName>  <HTTPPort>80</HTTPPort>  <HTTPSPort>443</HTTPSPort>  </NetworkSettings>  <Username>admin</Username>  <PasswordAll>0</PasswordAll>  <PasswordConf>0</PasswordConf>  <ThirdPartyActivated>1</ThirdPartyActivated>  </SystemSettings> |

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| **Field** | **Description** | **Units** |
| NumberMTU | Total number of MTU’s configured for the system |  |
| NumberSpyder | Total number of Spyder CT’s configured for the System |  |
| NumberDisplay | The total number of wireless displays configured for the system |  |
| DateTime/UseServer | Whether or not an NTP Server is being used | 0 = false 1=true |
| DateTime/ServerAddress | The server address of the NTP server |  |
| DateTime/UseDLST | Whether or not DLST is being used by the system | 0 = false 1=true |
| DateTime/InDLST | Whether or not the system is currently in DLST | 0 = false 1=true |
| DateTime/Timezone | The timezone offset of the system | Hours |
| ZipCode | The zip code of the system (used by weather) |  |
| WxUseLatLon | Whether or not to use Lat/Lon for weather | 0=false 1=true |
| WxLat | Latitude | Degrees \* 100 |
| WxLon | Longitude | Degrees \* 100 |
| Configuration/SystemType | The MTU configuration of the system | 0 – NET  1 - NET + GEN  2 – NET + LOAD |
| Configuration/MTUType1  Configuration/MTUType2  Configuration/MTUType3  Configuration/MTUType4 | The MTU configuration type | 0 - NET  1 - LOAD  2 - GEN  3 - STAND ALONE |
| USANP/USNAPType1  USANP/USNAPType1 | Type of card inserted into the USNAP port | 0 – None  1 – Wireless Display Card |
| MTUPollingDelay | Number of seconds between polling of MTUs | Seconds |
| MTUs/MTU/MTUNumber | Index of the MTU | 1-4 |
| MTUs/MTU/MTUID | Serial ID of the MTU |  |
| MTUs/MTU/MTUDescription | Text description of the MTU |  |
| MTUs/MTU/PowerCalibrationFactor | Multiplier of active/apparent power readings from the MTU | Percent \* 10 |
| MTUs/MTU/VoltageCalibrationFactor | Multiplier of voltage readings from the MTU | Percent \* 10 |
| MTUs/MTU/UseTCP | MTUPro Only: Whether or not to use TCP vs PLC to communicate to the MTU | 0-false  1-true |
| MTUs/MTU/MTUIP | IP Address of the MTU (only used if UseTCP is set to 1) |  |
| Gateway/GatewayID | Serial number of the ECC |  |
| Gateway/GatewayDescription | Text description of the ECC |  |
| Display/DisplayNumber | The index of the display |  |
| Display/DisplayID | The serial number of the display |  |
| Display/DisplayDescription | The text description of the display |  |
| Thermostats/NumberIPT | Number of IPTs configured for the system |  |
| Thermostats/Thermostat/IPTNumber | Index of the IPT |  |
| Thermostats/Thermostat/IPAddress | The IP Address of the thermostat |  |
| Thermostats/Thermostat/IPTDescription | The text description of the thermostat |  |
| Thermostats/Thermostat/RTAType | The type of thermostat connected to the system | 0-CT-30  1-CT-80 |
| Thermostats/StatRefresh | Seconds between thermostat polling | Seconds |
| CarbonCost | CarbonCost multiplier used by the system | Lbs \* 100 |
| NetworkSettings/UseDHCP | Whether or not the ECC should obtain its IP address from a DHCP server |  |
| NetworkSettings/IPAddress | The IP Address of the ECC |  |
| NetworkSettings/SubnetMask | The subnet mask of the ECC |  |
| NetworkSettings/GatewayAddress | The network gateway address used by the ECC |  |
| NetworkSettings/PrimaryDNSServer  NetworkSettings/SecondaryDNSServer | The DNS servers used by the ECC |  |
| NetworkSettings/NetBiosName | The netbios name of the ECC |  |
| NetworkSettings/HttpPort | The HTTP Port used by the ECC |  |
| NetworkSettings/HTTPSPort | The HTTPS Port used by the ECC |  |
| Username | The username used when logging into the ECC |  |
| PasswordAll | Whether or not all ECC pages should be password protected | 0=false  1=true |
| PasswordAll | Whether or not ECC system and utility configuration pages should be password protected | 0=false  1=true |
| ThirdPartyActivated | Whether or not 3rd party posting has been activated for this ECC | 0=false  1=true |

# File: /api/UtilitySettings.xml

Description: The utility settings associated with the system

Parameters: None

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| Example XML |
| <UtilitySettings>  <Seasons>  <NumberOfSeasons>1</NumberOfSeasons>  <Season>  <SeasonID>1</SeasonID>  <SeasonEndMonth>2</SeasonEndMonth>  <SeasonEndDay>21</SeasonEndDay>  <SeasonName></SeasonName>  </Season>  <Season>  <SeasonID>2</SeasonID>  <SeasonEndMonth>5</SeasonEndMonth>  <SeasonEndDay>20</SeasonEndDay>  <SeasonName></SeasonName>  </Season>  <Season>  <SeasonID>3</SeasonID>  <SeasonEndMonth>8</SeasonEndMonth>  <SeasonEndDay>22</SeasonEndDay>  <SeasonName></SeasonName>  </Season>  <Season>  <SeasonID>4</SeasonID>  <SeasonEndMonth>11</SeasonEndMonth>  <SeasonEndDay>31</SeasonEndDay>  <SeasonName></SeasonName>  </Season>  </Seasons>  <PlanType>2</PlanType>  <MeterReadDate>1</MeterReadDate>  <TOU>  <NumberTOU>2</NumberTOU>  <TOUApplicable>  <Saturday>TRUE</Saturday>  <Sunday>TRUE</Sunday>  <Holliday>FALSE</Holliday>  </TOUApplicable>  <TOUHolliday>  <US>FALSE</US>  <CANADA>FALSE</CANADA>  </TOUHolliday>  <TOUNames>  <Level1Name>Peak</Level1Name>  <Level2Name>Off-Peak</Level2Name>  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|  |  |  |
| --- | --- | --- |
| **Field** | **Description** | **Units** |
| Seasons/NumberOfSeasons | Number of Billing Period Seasons | 1-4 |
| Season/SeasonID | Index of the season |  |
| Season/SeasonEndMonth | 0-based index of the month the season ends | 0-11 |
| Season/SeasonEndDay | Day of the month the season ends | 1-31 |
| Season/SeasonName | Description of the season |  |
|  |  |  |
| PlanType | Plan type being used by the ECC | 0-Flat  1-Tier  2-TOU  3-Tier+TOU |
| MeterReadDate | Day of the month the billing cycle ends |  |
|  |  |  |
| TOU/NumberTOU | The number of TOU levels configured for the system |  |
| TOU/TOUApplicable/Saturday  TOU/TOUApplicable/Sunday  TOU/TOUApplicable/Holiday | Whether or not the TOU rates are applicable on weekends or holidays | TRUE  FALSE |
| TOU/TOUHolliday/US  TOU/TOUHolliday/CANADA | The holiday calendar used for TOU rates | TRUE  FALSE |
| TOUNames/Level1Name  TOUNames/Level2Name  TOUNames/Level3Name  TOUNames/Level4Name  TOUNames/Level5Name | Text description of each TOU level |  |
| TOUTimes/SeasonX/TOULevelY/StartHour1  TOUTimes/SeasonX/TOULevelY/StartMin1  TOUTimes/SeasonX/TOULevelY/EndHour1  TOUTimes/SeasonX/TOULevelY/EndMin1  TOUTimes/SeasonX/TOULevelY/StartHour2  TOUTimes/SeasonX/TOULevelY/StartMin2  TOUTimes/SeasonX/TOULevelY/EndHour2  TOUTimes/SeasonX/TOULevelY/EndMin2 | Starting/End time for each TOU level where X (1-4) is the season and Y is the level (1-5) | Hour (0-24)  Minutes (0-59) |
| Tier/NumberTiers | The number of tiers used for rate calculations | 1-5 |
| SeasonX/StepY | The break point for each tier where X is the Season (1-4) and Y is the tier step (1-5) | Watt Hours |
|  |  |  |
| Demand/UserDemandLevels | Whether or not demand charges are used | TRUE  FALSE |
| Demand/DemandBase | Whether or not demand is based on ApparentPower | TRUE = Apparent  FALSE = Active |
| Demand/DemandType | Whether or not demand type is based on tiers or tou | TRUE=TOU  FALSE=TIER |
| Demand/DemandApplicableSaturday  Demand/DemandApplicableSunday  Demand/DemandApplicableHolliday  Demand/DemandApplicableOffPeak | Whether or not demand charges are calculated on weekends/holidays/offpeak | TRUE  FALSE |
| SeasonX/DemandLevelY/OverKW | For Tier based demand charges, the breakpoint for the tier | Watt Hour or VA |
| SeasonX/DemandLevelY/Charge | The per kWh/kVA rate used to calculate the demand rate | Cents |
| Demand/DemandAverageTime | Number of minutes used to calculate the average for demand charge calculations | Minutes |
| Demand/DemandLevels | For Tier based demand charges, the number of tiers being used |  |
|  |  |  |
| EnergyRates/SeasonX/StepY/TOUZ | The energy rate for each season/tier/tow where X is the season (1-4), Y is the Tier (1-5), and Z is the TOU (1-5) | $ \* 100000 |
|  |  |  |
| AdditionalCharges/UseEnergySurcharge | Whether or not energy surcharges are applied to the cost | TRUE  FALSE |
| AdditionalCharges/FixedMonthlyCharge | Whether or not a fixed monthly charge is applied to the NET MTD and Projected costs | TRUE  FALSE |
| AddiitonalCharges/MinMonthlyCharge | Whether or not a fixed minimum monthly charge is pplied to the NET MTD and Projected costs | TRUE  FALSE |
| AdditionalCharges/TaxCharge | Whether or not a tax is applied to the current rate in effect | TRUE/False |
| SeasonX/EnergySurcharge | The surcharge applied to each KWH where X is the season (1-4) | Cents |
| SeasonX/FixedCharge | The fixed charge to apply during season X | Cents |
| SeasonX/MinCharge | The minimum charge to apply during season X | Cents |
| SeasonX/Tax | The tax percentage to apply to the current rate in effect | Percent \* 100 |