

PowerLogic Applications

The ION Architecture

- What drives all ION devices and software is the ION Architecture
- ION is the way our meters do what they do, and how they are programmed (by you!)
- For most meter installations, ION is invisible, as the meters typically do what you want OOB
- But ION can do so much more...

Review

- My favorite analogy...



When you have THIS...



But you NEED this...

What do you do?

ION Module Primer

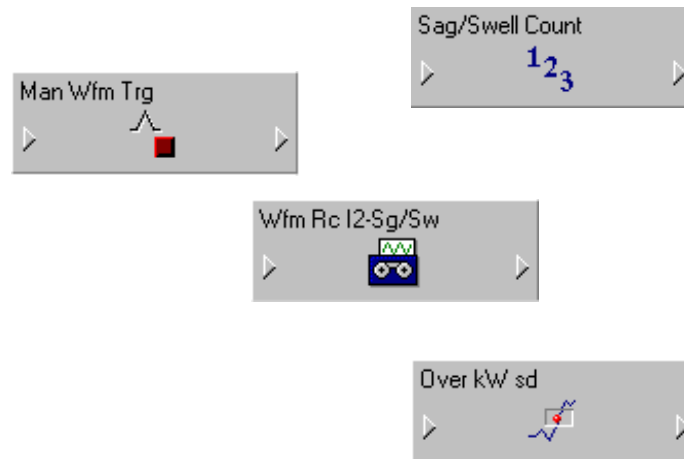
- Lego!

- wheels, blocks...



- ION!

- counters, data recorders...



ION Module Primer

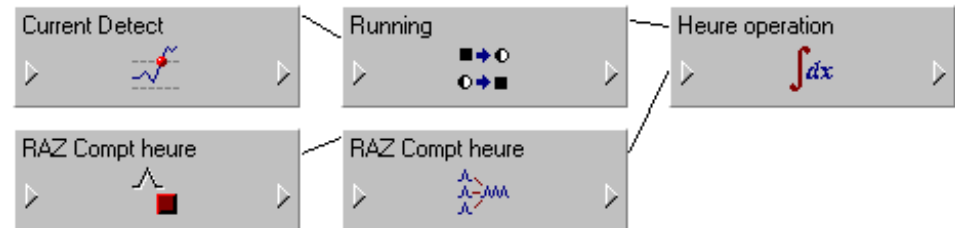
- Lego!

- put the blocks together to make a sports car...



- ION!

- link the modules together to make a...



How to monitor other utilities?



- Water, steam, gas etc typically will come from basic meters that provide pulse or analog signals
- Happily, almost all ION meters have analog and/or status inputs
- ION Modules are used to convert these real-world signals into ION registers inside the meter
 - Digital Inputs
 - Input status, triggers when status changes
 - Can be combined with scaleable Counters to represent accumulated values
 - Analog Inputs
 - Scales the voltage or current input to represent the actual value
- These registers can be named anything you want (“LB Steam”)
- These registers can be used like any other register
 - setpoints, data recorders, displays...
- Recorded data can be configured to appear as ‘part of’ the meter’s own data, or as a unique ‘downstream device’ in ION Enterprise’s database
 - See the Downstream Device application note on Powerlogic.com/support for details on this

How to get my meter to send me an e-mail?



- Alarms and notifications:

- Alert Module

- Sends out emails to a single address when triggered by any desired meter event
 - setpoints, pq events
 - status inputs
 - logic results
- Message includes configurable message
- You can link in up to four meter values and include these in the message

Low Voltage (573 VAC) at service entrance!!!

How to get my meter to send me an e-mail?



- Data Records:

- Log Mail Module:

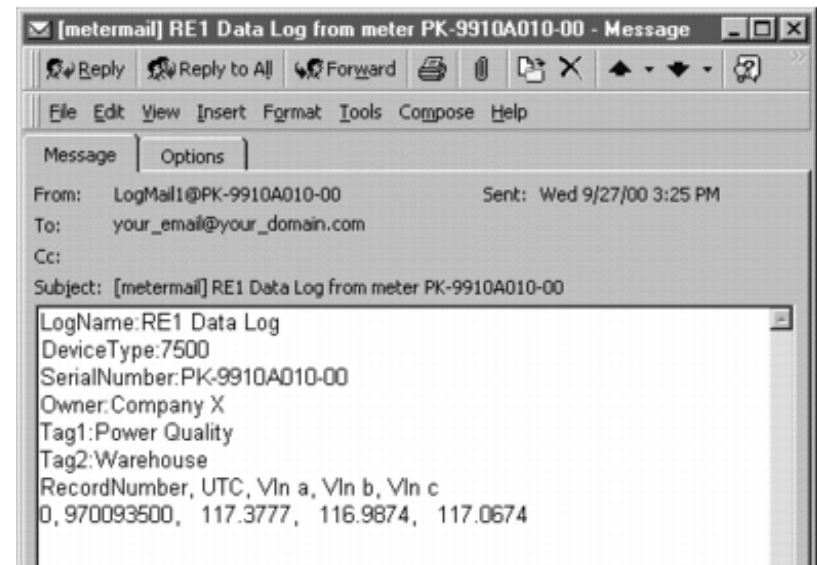
- Sends out emails to a single address when triggered by any desired meter event

- typically time based

- » daily, etc

- Module links to any desired data recorder in the meter

- Sends the contents of the data recorder in CSV or XML format



How to get my meter to send me an e-mail?



● Meter Requirements

- Ethernet port!
 - The meter must have an Ethernet port built in.
- Communications Settings
 - The Ethernet port's Communications Module needs to be correctly configured with:
 - IP Address and Subnet Mask
 - Default Gateway (if meter on different subnet from mail server)
 - SMTP Server address (IP address or domain name of email server)
 - Primary, Secondary DNS Server (if DNS used for SMTP)
 - SMTP Timeout

Questions ?

