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When all is set and done the modem must be configured as a controller to group 0 (not sure why), and a responder to groups 1-5 such that it picks up when the thermostat switches on/off heating and cooling etc, and it must be a responder to special group 0xEF to get status update reports when measured values (temperature) change. The key in the JSON object is heartbeatOnly and the value is a boolean: Things The temperature can be calculated in Fahrenheit using the following formulas: If the device is battery powered: temperature = 0.73 * motionSensorTemperatureLevel - 20.53 If the device is USB powered: temperature = 0.72 * motionSensorTemperatureLevel - 24.61 Since the motion sensor II might not be calibrated correctly, the values 20.53 and 24.61 can be adjusted as necessary to produce the correct temperature. They send out a broadcast message, labeled with a specific group number. The format is broadcastOnOff#X where X is the group that you want to be able to broadcast messages to: Things Items Flipping this switch to "ON" will cause the modem to send a broadcast message with group=2, and all devices that are configured to respond to it should react. Insteon devices send messages either via the power line, or by means of radio frequency (RF) waves, or both (dual-band. Note that battery level is only updated when either there is motion, or the sensor battery runs low. If a maximum level is configured, openHAB will never set the level of the dimmer above the level specified. channel type description acDelay Number AC Delay backlightDuration Number Back Light Duration batteryLevel Number Battery Level batteryPercent Number-Dimensionless Battery Percent batteryWatermarkLevel Number Battery Watermark Level beep Switch Beep bottomOutlet Switch Bottom Outlet buttonA Switch Button A buttonB Switch Button B buttonC Switch Button C buttonD Switch Button D buttonE Switch Button E buttonF Switch Button F buttonG Switch Button G buttonH Switch Button H broadcastOnOff Switch Broadcast On/Off contact Contact coolSetPoint Number Cool Set Point dimmer Dimmer fan Number Fan fanMode Fan Mode fastOnOff Switch Fast On/Off fastOnOffButtonA Switch Fast On/Off Button A fastOnOffButtonB Switch Fast On/Off Button B fastOnOffButtonC Switch Fast On/Off Button C fastOnOffButtonD Switch Fast On/Off Button D heatSetPoint Number Heat Set Point humidity Number Humidity humidityHigh Number Humidity High humidityLow Number Humidity Low isCooling Number Is Cooling isHeating Number Is Heating keypadButtonA Switch Keypad Button A keypadButtonB Switch Keypad Button B keypadButtonC Switch Keypad Button C keypadButtonD Switch Keypad Button D keypadButtonE Switch Keypad Button E keypadButtonF Switch Keypad Button F keypadButtonG Switch Keypad Button G keypadButtonH Switch Keypad Button H kWh Number:Energy Kilowatt Hour lastHeardFrom DateTime Last Heard From ledBrightness Number LED brightness ledOnOff Switch LED On/Off lightDimmer Dimmer light Dimmer lightLevel Number Light Level lightLevelAboveThreshold Contact Light Level Above/Below Threshold loadDimmer Dimmer Load Dimmer loadSwitch Switch Load Switch loadSwitchFastOnOff Switch Load Switch Fast On/Off loadSwitchManualChange Number Load Switch Manual Change lowBattery Contact Low Battery manualChange Number Manual Change manualChangeButtonA Number Manual Change Button A manualChangeButtonB Number Manual Change Button B manualChangeButtonC Number Manual Change Button C manualChangeButtonD Number Manual Change Button D notification Number Notification onLevel Number On Level rampDimmer Dimmer Ramp Dimmer rampRate Number Ramp Rate reset Switch Reset stage1 Duration Number Stage 1 Duration switch Switch systemMode Number System Mode tamperSwitch Contact Tamper Switch temperature Number:Temperature Temperature temperatureLevel Number Temperature Level topOutlet Switch Top Outlet update Switch Update watts Number:Power Watts # Full Example Sample things file: Sample items file: # Console Commands The binding provides commands you can use to help with troubleshooting. They are not operable because the PLM cannot trigger the mini remotes scenes. In the example below a new feature "MyFeature" is defined, which can then be referenced from the device types.xml file (or from my own devices.xml): # Known Limitations and Issues Devices cannot be linked to the modem while the binding is running. In this scenario, the "related" keyword can be used to have the binding poll a related device whenever a state change occurs for another device. In your items file you specify these groups with the "group=" parameters such that the binding knows what group number to put on the outgoing message. # Insteon Groups and Scenes How do Insteon devices tell other devices on the network that their state has changed? The modem can also be connected via TCP (such as ser2net. For instance when light switch A is switched to "ON", it will send out a message to group #1, and all responders will react to it, e.g they may go into the "ON" position as well. # Keypads Before you attempt to configure the keypads, please familiarize yourself with the concept of an Insteon group. This means you must configure the modem as a responder to group #3 (and #4, #5, #6) messages coming from your keypad. The naming convention is Insteon Device AABBC, where AA, BB and CC are from the Insteon device address. Since more than one device can participate, the sending out of the broadcast message and the subsequent state change of the responders is referred to as "triggering a scene". Add this map into your transforms directory as "contact.map": Items Along with this into your .items file: Sitemap To make it visible in the GUI, put this into your sitemap file: For safety reasons, only close the garage door if you have visual contact to make sure there is no obstruction! The use of automated rules for closing garage doors is dangerous. A considerable number of Insteon compatible devices such as switchable relays, thermostats, sensors etc are available. Be aware that most X10 switches/dimmers send no status updates, i.e. openHAB will not learn about switches that are toggled manually. A leak sensor may send out a message on group #1 when dry, and on group #2 when wet Other linked devices however may also change their state in response, but those devices will not send out a broadcast message, and so openHAB will not learn about their state change until the next poll. # Adding New Device Features If you can't build a new device out of the existing device features (for a complete list see device_features.xml) you can add new features by specifying a file (let's call it my own_features.xml) with the "additionalDevices" option in the network config parameters: In this file you can define your own features (or even overwrite an existing feature. For some of the older device types (in particular the SwitchLinc switches and dimmers), Insteon does not give a product key, so an arbitrary fake one of the format Fxx.xx.xx (or Fxx.xx.xx for X10 devices) is assigned by the binding. Please see the Insteon I/O Linc documentation for further details. You can repair it yourself using basic soldering skills, search for "Insteon PLM repair" or "Insteon hub repair". It must first be properly linked to the modem using configuration software like [Insteon Terminal] (opens new window). # Device Permissions / Linux Device Locks When openHAB is running as a non-root user (Linux/OSX) it is important to ensure it has write access not just to the PLM device, but to the os lock directory. While you cannot bind the the X10 devices to the Insteon PLM/HUB, here are some examples for configuring X10 devices. productKey Insteon binding product key that is used to identify the device. Then press and hold the "Set" button on the remote device, e.g. the light switch, until it double beeps (the light on the modem should go off as well. Any Insteon device that exists in the database and is not currently configured is added to the inbox. One common scenario is e.g. a switch in a 3-way configuration, with one switch controlling the load, and the other switch being linked as a controller. Items This is an example of what to put into your .items file: Add this as well for some more exotic features: Sitemap For the thermostat to display in the GUI, add this to the sitemap file: # Power Meters The Meter Solo reports both wattage and kilowatt hours, and is updated during the normal polling process of the devices. additionalDevices No File with additional device types. Symmetrically, the thermostat must be a responder to group 0, and a controller for groups 1-5 and 0xEF. Items Sitemap # Thermostats The thermostat (2441TH) is one of the most complex Insteon devices available. The linking process is not difficult but needs some persistence. Items Put something like this into your .items file: and create a file "lock.map" in the transforms directory with these entries: # I/O Linc (garage door openers) The I/O Linc devices are really two devices in one: a relay and a contact. A scene is strictly a higher level concept, introduced to shield the user from the details of how the communication is implemented. All devices (called responders) that are configured to listen to this message will then go into a pre-defined state. Link the modem both ways, as responder and controller using the set buttons as described in the instructions. You can however load your own device types.xml by referencing it in the network config parameters: Where the my own devices.xml file defines a new device like this: Finding the Insteon product key can be tricky since Insteon has not updated the product key table ((opens new window) since 2008. But if you want to get the buttons to work, read on. If a web search does not turn up the product key, make one up, starting with "F", like: F00.00.99. If the alternate heartbeat is enabled, the device can be configured to not query the device and rely on the data from the alternate heartbeat. Create a contact.map file in the transforms directory as described elsewhere in this document. For all other configuration and set up of devices, link the devices manually via the set buttons, or use the free Insteon Terminal (opens new window) software. The key in the JSON object is broadcastGroups and the value is an array of integers: Things When an Insteon device changes its state because it is directly operated (for example by flipping a switch manually), it sends out a broadcast message to announce the state change, and the binding (if the PLM modem is properly linked as a responder) should update the corresponding openHAB items. # Device Configuration The Insteon device is configured with the following reserved parameters: Parameter Description address Insteon or X10 address of the device. The binding does not support linking new devices on the fly, i.e. all devices must be linked with the modem before starting the Insteon binding. This means you need to pick a set of unused groups that is globally unique if you have multiple keypads, each one of them has to use different groups, one group for each button. Link such that the modem is a responder to the motion sensor. Insteon is a home area networking technology developed primarily for connecting light switches and loads. The 4-button mini remote sends out messages on groups 0x01 - 0x04, each corresponding to one button. # Discovery The network bridge is not automatically discovered, you will have to manually add it the yourself. The motion sensor II includes three additional channels: Items The battery, light level and temperature level are updated when either there is motion, light level above/below threshold, tamper switch activated, or the sensor battery runs low. The syntax of the file is identical to the device_types.xml file in the source tree. The key is a parameter for the device and the type of the value will vary. Here is an example correspondence table: Group Button Number 2487S Label 0x01 1 (Load) 0x03 3 A 0x04 4 B 0x05 5 C 0x06 6 D When e.g. the "A" button is pressed (that's button #3 internally) a broadcast message will be sent out to all responders configured to listen to Insteon group #3. You can also manually update the current values from the device and reset the device. More about Insteon can be found on Wikipedia (opens new window). The Insteon PLM or hub is known to break in about 2-3 years due to poorly sized capacitors. Failure to do so may result in "found no ports". The below example sets a maximum level of 70% for dim 1 and 60% for dim 2: Things Items Setting a maximum level does not affect manual turning on or dimming a switch. Upon proper configuration of the network bridge, the network device database will be downloaded. The motion sensor II will also periodically send data if the alternate heartbeat is enabled on the device. During the linking process, one of the devices will be the "Controller", the other the "Responder" (see e.g. the SwitchLinc Instructions (opens new window)). When monitoring devices, the output will be displayed where openHAB was started. Under openUSE this is /run/lock and is managed by the lock group. The parameter dimmermax must be defined for the channel. They cannot be simply toggled with a direct command to the device, but instead a broadcast message must be sent on a group number that the button has been programmed to listen to. If new devices are linked, the binding must be restarted. # Mini Remotes Link the mini remote to be a controller of the modem by using the set button. See logging in openHAB (opens new window) for more info. NOTE: For users upgrading from InsteonPLM. The parameter port 1 is now port. Channels can also be configured using the device configuration parameter of the device. Enter openhab:insteon or insteon in the console and you will get a list of available commands. You can even do that with the set buttons (see instructions that come with the keypad). Every Insteon device type is uniquely identified by its Insteon product key, typically a six digit hex number. The JSON object will contain one or more key/value pairs. # Supported Things Thing Type Description network Bridge An Insteon PLM or hub that is used to communicate with the Insteon devices device Thing Insteon devices such as dimmers, keypads, sensors, etc. A typical example would be a switch configured to broadcast to a group, and one or more devices configured to respond to the message: More than one device can be polled by separating them with "+" sign, e.g. "related=aa.bb.cc+xx.yy.zz" would poll both of these devices. Complicating matters further, the button numbering used internally by the device must be mapped to whatever labels are printed on the physical buttons of the device. Now do exactly the reverse: press and hold the "Set" button on the remote device until its light starts blinking, then press and hold the "Set" button on the modem until it double beeps, and the light of the remote device (switch) goes off. Create a contact.map file in the transforms directory like the following: Items Then create entries in the .items file like this: This will give you a contact and the battery level. # Keypad Switches Items Here is a simple example, just using the load (main) switch: Most people will not use the fast on/off features or the manual change feature, so you really only need the first line. The example configuration below uses groups 0xF3, 0xF4, 0xF5, and 0xF6. This binding provides access to the Insteon network by means of either an Insteon PowerLinc Modem (PLM), a legacy Insteon Hub 2242-222 or the current 2245-222 Insteon Hub, 2476D SwitchLinc Dimmer F00.00.0C LiberatorUSA 2634-222 On/Off Dual-Band Outdoor Module F00.00.0D LiberatorUSA 2342-2 Mini Remote F00.00.10 Bernd Pfrommer 2663-222 On/Off Outlet 0x000039 SwissKid 2466D ToggleLinc Dimmer F00.00.11 Rob Nielsen 2466G ToggleLinc Switch F00.00.12 Rob Nielsen 2672-222 LED Bulb F00.00.13 Rob Nielsen 2487S KeypadLinc On/Off 6-Button F00.00.14 Bernd Pfrommer 2334-232 KeypadLinc Dimmer 8-Button F00.00.15 Rob Nielsen 2334-232 KeypadLinc Dimmer 8-Button F00.00.16 Rob Nielsen 2423A1 IMeter Solo Power Meter F00.00.17 Rob Nielsen 2423A1 Thermostat 2441TH F00.00.18 Daniel Campbell, Bernd Pfrommer 2457D2 LampLinc Dimmer F00.00.19 Jonathan Huizingh 2475SDB In-LineLinc Relay F00.00.1A Jim Howard 2635-222 On/Off Module F00.00.1B Jonathan Huizingh 2475F FanLinc Module F00.00.1C Brian Tillman 2456S3 ApplianceLinc F00.00.1D ??? You need unlink and then link again with the door in the opposite position. Each button will send out a message for a different, predefined group. In order to determine which channels a device supports, you can look at the device in the UI, or with the command display_devices in the console. You may need to redirect the output to a log file to see the messages. Disabling the querying of the device should provide more accurate battery data since it appears to fluctuate with queries of the device. The modem's link database (see Insteon Terminal (opens new window)) should look like this: Items This goes into the items file: Sitemap This goes into the sitemap file: The switches in the GUI just display the mini remote's most recent button presses. # Insteon Features Since Insteon devices can have multiple features (for instance a switchable relay and a contact sensor) under a single Insteon address, an openHAB item is not bound to a device, but to a given feature of a device. The Insteon Terminal wiki describes in detail how to link the thermostat, and how to make it publish status update reports. # Thing Configuration # Network Configuration The Insteon PLM or hub is configured with the following parameters: Parameter Default Required Description port Yes Examples- PLM on Linux: /dev/ttyS0 or /dev/ttyUSB0 Smartent ZPLM on Linux: /dev/ttyUSB0.baudRate=115200 PLM on Windows: COM1 - Current hub (2245-222) at 192.168.1.100 on port 25105, with a poll interval of 1000 ms (1 second) /hub/2my user name: :25105.poll_time=1000 Legacy hub (2242-222) at 192.168.1.100 on port 9761:/hub/192.168.1.100:9761 Networked PLM using ser2net at 192.168.1.100 on port 9761/tcp/192.168.1.100:9761 devicePollIntervalSeconds 300 No Poll interval of devices in seconds. The modem can be connected to the openHAB server either via a serial port (Model 2413S) or a USB port (Model 2413U. In this scenario, the "related" keyword can be used to have the binding poll one or more related device when group message are sent. # Motion Sensors Link such that the modem is a responder to the motion sensor. Then link the buttons such that they respond to those groups, and link the modem as a controller for them (see Insteon Terminal (opens new window) documentation. Using the Insteon Hub 2014 in conjunction with other applications (such as the InsteonApp) is not supported. A typical example would be two dimmers (A and B) in a 3-way configuration: Another scenario is a group broadcast message, the binding doesn't know which devices have responded to the message since its a broadcast message. This is accomplished by querying the device for the data. X10 devices are not auto discovered. For this reason, most devices and in particular switches/dimmers should be linked twice, with one taking the role of controller during the first linking, and the other acting as controller during the second linking process. If you want to see the response from the device, you will need to monitor the device. # Adding New Device Types (Using Existing Device Features) Device types are defined in the file device_types.xml, which is inside the Insteon bundle and thus not visible to the user. To make the buttons available, add the following: Things The value after group must either be a number or string. Link all buttons, one after the other. While capturing the messages that the buttons emit is pretty straight forward, controlling the buttons is another matter. The openHAB binding supports minimal configuration of devices, currently only monitoring and sending messages. The default poll interval of 300 seconds has been tested and found to be a good compromise in a configuration of about 110 switches/dimmers. Relevant messages from the Insteon network (like notifications about switches being toggled) are picked up by the modem and converted to openHAB status updates by the binding. # Insteon Binding Process Before Insteon devices communicate with one another, they must be linked. Poll too often and you will overload the insteon network, leading to sluggish or no response when trying to send messages to devices. deviceConfig Optional JSON object with device specific configuration. Since it is a broadcast message, the corresponding item does not take the address of any device, but of the modem itself. This allows openHAB not only control X10 devices without the need for other hardware, but it can also have rules that react to incoming X10 powerline commands. The hexadecimal value 0xF3 can either converted to a numeric value 243 or the string value "0xF3". The Insteon keypad devices typically control one main load and have a number of buttons that will send out group broadcast messages to trigger a scene. Many Insteon devices send out messages on different group numbers, depending on what happens to them. Use the Insteon Terminal (opens new window) for that. Avoid duplicate keys by finding the highest fake product key in the device_types.xml file, and incrementing by one. The openhab: prefix is optional: Here is an example of command: insteon display_local database. The binding translates openHAB commands into Insteon messages and sends them on the Insteon network. # Locks Read the instructions very carefully: sync with lock within 5 feet to avoid bad connection, link twice for both ON and OFF functionality. Please remember to post successfully added device types to the openhab group so the developers can include them into the device_types.xml file! additionalFeatures No File with additional feature templates, like in the device_features.xml file in the source tree. # Troubleshooting Turn on DEBUG or TRACE logging for 'org.openhab.binding.insteon. X10 device address are in the format 'x.y' and are typically configured on the device. Then create entries in the .items file like this: Items This will give you a contact, the battery level, and the light level. Items Sitemap The following sitemap will bring the items to life in the GUI: # Keypad Dimmers The keypad dimmers are like keypad switches, except that the main load is dimmable. To do so, first press and hold the "set" button on the modem until the light starts blinking. The responder listens to messages from the controller, and reacts to them. The free HouseLinc software from Insteon can also be used for configuration, but it wipes the modem link database clean on its initial use, requiring to re-link the modem to all devices. Example commands to grant openHAB access (adjust for your distribution): Insufficient access to the lock directory will result in openHAB failing to access the device, even if the device itself is writable. The following is a list of the product keys and associated devices. # On/Off Outlets Here's how to configure the top and bottom outlet of the in-wall 2 outlet controller: This will give you individual control of each outlet. 2674-222 LED Bulb (recessed) F00.00.1E Steve Bate 2477SA1 220V 30-amp Load Controller N/O F00.00.1F Shawn R. At the device and PLM level, the concept of a "scene" does not exist, so you will find it notably absent in the binding code and this document. The send message commands do not display any results. These have been tested and should work out of the box: Model Description Product Key tested by 2477D SwitchLinc Dimmer F00.00.01 Bernd Pfrommer 2477S SwitchLinc Switch F00.00.02 Bernd Pfrommer 2845-222 Hidden Door Sensor F00.00.03 Joseivaldo Benito 2876S ICON Switch F00.00.04 Patrick Giasson 2456D3 LampLinc V2 F00.00.05 Patrick Giasson 2442-222 Micro Dimmer F00.00.06 Joseivaldo Benito 2453-222 DIN Rail On/Off F00.00.07 Joseivaldo Benito 2452-222 DIN Rail Dimmer F00.00.08 Joseivaldo Benito 2458-A1 MorningLinc RF Lock Controller F00.00.09 cdeaddlock 2852-222 Leak Sensor F00.00.0A Kirk McCann 2672-422 LED Dimmer F00.00.0B ??? The binding also supports sending and receiving of legacy X10 messages. See the example below: Items # Fan Controllers Here is an example configuration for a FanLinc module, which has a dimmable light and a variable speed fan: Items Pfrommer 2843-222 Wireless Open/Close Sensor 0x000049 Joseivaldo Benito 2842-222 Motion Sensor 0x00004A Bernd Pfrommer 2844-222 Motion Sensor II F00.00.24 Rob Nielsen 2486DWH8 KeypadLinc Dimmer 0x000051 Chris Graham 2472D OutletLincDimmer 0x000066 Chris Graham X10 switch generic X10 switch X00.00.01 Bernd Pfrommer X10 dimmer generic X10 dimmer X00.00.02 Bernd Pfrommer X10 motion generic X10 motion sensor X00.00.03 Bernd Pfrommer # Channels Below is the list of possible channels for the Insteon devices. NOTE: If the I/O Linc returns the wrong value when the device is polled (For example you open the garage door and the state correctly shows OPEN, but during polling it shows CLOSED), you probably linked the device with the PLM or hub when the door was in the wrong position. For instructions how to do this, check out the [Insteon Terminal] (opens new window). For example, the following lines would create two Number items referring to the same thermostat device, but to different features of it: # Simple Light Switches The following example shows how to configure a simple light switch (2477S) in the .items file: # Simple Dimmers Here is how to configure a simple dimmer (2477D) in the .items file: Dimmers can be configured with a maximum level when turning a device on or setting a percentage level. Setting up Insteon groups and linking devices cannot be done from within openHAB.

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