



## Telkonet Glossary of Terms

Revision 2-updated "EcoConnect" to "coordinator under "MAC ID" definition (page 2)

Word	Definition
<b>ARMA</b>	Acronym for "Advanced Return Merchandise Authorizations"; similar to an RMA, except that Telkonet will repair/replace products without waiting to receive the defective products from the customer, as is the case with RMAs. Customer to return product within 21 days. Telkonet to send label to customer.
<b>AWS</b>	Acronym for "Amazon Web Service"; "new" version of EcoCentral is hosted on AWS
<b>BACnet</b>	A communication protocol that can be used to interface EcoCentral with a building management system (boiler & chiller). BACnet allows intelligent systems from various industries and manufacturers to exchange data such as temperatures, setpoints, schedules, trend logs, and alarms, and coordinate equipment operation to achieve optimum building performance.
<b>CAT5e</b>	Computer network cable
<b>Channel</b>	Narrow-band radio frequency channel (Telkonet uses channels 15, 20, 25, and 26)
<b>Coordinator</b>	EcoSmart Gateway NT8000 (and legacy EcoConnect); serves as an access point in the Zigbee network; creates personal area network that room control equipment joins
<b>DA</b>	Acronym for "Device Association"
<b>Demo Room</b>	Subset of equipment to be installed at a potential customer site. Designed to highlight what our equipment can do. Typically, in one or two rooms.
<b>Device Association Button</b>	Button on EcoSmart devices used to join, bind and pair.
<b>DOE</b>	Acronym for "Director of Engineering"
<b>EcoCentral</b>	Data storage, reporting and analytics interface that we offer our customers on a prescription basis.
<b>EcoSmart</b>	Brand name Telkonet uses for its energy management platform and products.
<b>EPID</b>	Acronym for "Extended PAN ID". At Telkonet, this number is commonly the MAC address of the coordinator. Found in CLI commands in ESU. In most cases, it must be the MAC address of the coordinator. It only applies to networked devices. On Ving devices this must be set manually.



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<b>ESU</b>	Acronym for "EcoSmart Serial Utility". ESU is one of three tools that can be used to interact with EcoSmart devices. ESU is a simple software loaded on a laptop, which is then physically connected to the thermostat or other EcoSmart device.
<b>FCU</b>	Acronym for "fan coil unit"
<b>Field Tech</b>	Field Technical Specialist
<b>Firmware</b>	Software that is loaded on EcoSmart devices. They are loaded using a .hex file.
<b>HA</b>	Acronym for "Home Automation". Telkonet's ZigBee devices are certified "HA Compliant", meaning they can communicate with other third-party ZigBee HA Compliant devices.
<b>HCR</b>	Acronym for "Hilton Connected Rooms", which are technologically advanced guest rooms; Telkonet is one of several approved partners to offer smart hardware in their Hilton Connected Rooms
<b>HS</b>	Acronym for "Humidity Sensor". Passive humidity sensing is Telkonet's "Refresh Cycle"; active humidity sensing is targeting relative humidity percentage
<b>HVAC</b>	Acronym for "Heating Ventilation and Air Conditioning"; common HVAC systems include fancoils and PTACs. Telkonet thermostats control HVAC units
<b>IDF</b>	Acronym for "Intermediate Distribution Frame" (IDF closet-racks)
<b>Installer</b>	Field Service Technician
<b>IoT</b>	Acronym for "Internet of Things"
<b>IP Address</b>	In general, an IP address is assigned to every computer on an Ethernet network. Like the street address for your home, an IP address identifies network computers. EcoCommanders have a hard-coded IP address
<b>IR Emitter</b>	Small wired transmitter for repeating an infrared signal from your remote to an isolated piece of A/V equipment
<b>J-Tag</b>	A term used at Telkonet, meaning the act of connecting the thermostat to the computer using a special cable and loading project-specific firmware (commonly .hex files) on the thermostat
<b>LVW</b>	Acronym for "Low Voltage Whip"
<b>MAC Address</b>	Short for "Media Access Control Address"; it has nothing to do with Apple Mac computers. There are millions of networkable devices in existence around the world, and each device needs a unique MAC address. It is a hardware identification number that uniquely identifies each device on a network. It is not a Telkonet-specific number.
<b>MAC ID</b>	Barcode that appears on <b>coordinator</b> sticker. Same as MAC address.
<b>MDF</b>	Acronym for "Main Distribution Frame" (MDF Closet – Racks)



<b>Minisplit</b>	Heating and cooling systems that allow occupants to control the temperature in individual rooms or spaces
<b>Mock Up Room</b>	Example of an esthetic view of our equipment; a hard example for show and tell.
<b>Networked</b>	In a networked property, devices operate as part of an EcoSmart network, or "platform" (or more technically, equipment that is connected to a head end that connects all equipment together)
<b>Non-networked</b>	In a non-networked property, EcoSmart devices do not operate on an EcoSmart network; each room is stand-alone and operates independently of the other rooms
<b>OTA</b>	Acronym for "Over the Air". Sometimes firmware is loaded or updated on EcoSmart devices with a software that Production has, called "WinSCP", using an OTA process involving .bo or .hex files
<b>PAN</b>	acronym for Personal Area Network; each coordinator is assigned a PAN. The property assigns this number at the time of installation. They are 4 digits in length, and follow a hexadecimal rule.
<b>PDE</b>	Acronym for "Project Development Engineer" at Telkonet
<b>PIR</b>	Acronym for "Passive Infrared" sensor; PIR is a sensor that detects motion and heat. All Telkonet occupancy sensors, sense occupancy using PIR.
<b>Plenum</b>	Plenum rated cable has a special insulation that has low smoke and low flame characteristics. Used in any air handling spaces.
<b>PM</b>	Acronym for "Project Manager" at Telkonet
<b>PMS</b>	Acronym for "Property Management System"; software used by hotels for administrative tasks such as checking guests in and out, reporting, etc.; EcoSmart system can integrate with PMS systems to better communicate room status changes when a guest event occurs, such as a check-in/check-out event. When these events are transmitted to EcoCentral, we can change the state of the room status (sold/unsold) for example.
<b>POE</b>	Acronym for "Power over Ethernet", provides a device the capability to transmit both data and electric power over a copper Ethernet LAN cable.
<b>Proposal</b>	Formal document used to provide a customer a detailed cost when labor is included in the project
<b>PTAC</b>	Acronym for " <u>P</u> ackaged <u>T</u> erminal <u>A</u> ir <u>C</u> onditioner"; is a common, self-contained type of HVAC unit used mostly to heat or cool a single living space (e.g. hotels, student housing, etc.) using only electricity
<b>PutTy</b>	Along with Tera Term, is an open-source free software tool we use to make high level configuration changes.



<b>QSA</b>	Acronym for "Quick Savings Analysis"; a QSA report demonstrates what Telkonet can potentially provide in energy savings. Telkonet creates the report from typical energy costs based on the customer equipment type, the ratings on the makes and models of equipment at the property, and real info pulled in from local weather stations, thereby proposing an estimated savings for their property with our equipment.
<b>Quote</b>	Formal document used to secure customer business. Provides detailed projects costs. Can be used when no labor is included.
<b>R [as in Part#(R)]</b>	In a Telkonet part number, the (R) stands for Refurbished Unit
<b>RH</b>	Acronym for "Relative Humidity" (Passive – Refresh cycle and Active – Targeting humidity %)
<b>Riser Diagram</b>	A diagram that shows the major items of electrical equipment. (includes coordinators, EcoCommander)
<b>RMA</b>	Acronym for "Return Merchandise Authorizations"; document that tracks repair and replacement of Telkonet equipment.
<b>Room Controls</b>	EcoSmart in-room devices, consisting of: <b>EcoAir</b> (thermostat user interface) <b>EcoContact+</b> (door contact) <b>EcoGuard</b> (plug/outlet) <b>EcoInsight+</b> (wired thermostat and room automation controller) <b>EcoSense+</b> (occupancy sensor) <b>EcoSource+</b> (HVAC and room automation controller, used with a thermostat user interface) <b>EcoSwitch</b> (light switch) <b>EcoTouch+</b> (thermostat user interface)
<b>Security Key</b>	This is a system-generated number assigned to every coordinator. When Gateways leave the EcoSmart warehouse, they contain a temporary (or "default") security key. Change this number upon installation: NT8000 security keys are edited by connecting to the device via WiFi, or via command line (Telkonet only).
<b>Serial Number</b>	The serial number on a device is for internal tracking purposes.
<b>Serializing</b>	At Telkonet, the term refers to the act of loading the MAC address onto the thermostat from the thermostat's PCB board sticker
<b>Server</b>	In an EcoSmart platform, the server is the EcoCommander is the head end for all "network equipment"
<b>SFC</b>	Acronym for "Serial Flash Configurator". Used internally by Telkonet to load common profiles to a thermostat, thereby saving time not loading custom profiles (Standard Configs)



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<b>Short Address</b>	(Found in ESU > Settings tab) Applies to EcoInsight+ and EcoSource+; its presence means the device has been joined to a coordinator.
<b>Site Survey</b>	Detailed report of site conditions used in the process of developing a proposal and scope of work.
<b>Sub-contractor</b>	A Telkonet installation resource
<b>Subnet Mask</b>	EcoCommander field; it will vary depending on the property's IT requirements.
<b>Switch</b>	A signal that can be split into multiple points out from one-point in.
<b>Tera Term</b>	Along with PutTy, is an open-source free software tool we use to configure devices prior to shipment.
<b>TSE</b>	Acronym for "Telkonet Smart Energy"
<b>Virtual Engineer</b>	Formerly, the name of EcoCentral; today, it is a series of reports within EcoCentral
<b>VRF</b>	Variable Refrigerant Flow
<b>ZigBee</b>	A common wireless communication protocol; EcoSmart devices communicate using ZigBee.