



AT&T
Digital Life®

DLC-200C

Installation and Operations Manual





DLC-200C Installation and Operations Manual

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SAFETY REGULATIONS

Notice to Installers

The servicing instructions in this notice are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions, unless you are qualified to do so.

Note to System Installer For this apparatus, the coaxial cable shield/ screen shall be grounded as close as practical to the point of entry of the cable into the building. For products sold in the US and Canada, this reminder is provided to call the system installer's attention to Article 820-93 and Article 820-100 of the NEC (or Canadian Electrical Code Part 1), which provides guidelines for proper grounding of the coaxial cable shield. This symbol is intended to alert you that uninsulated voltage within this product may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this product.	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN AVIS RISQUE DE CHOC ÉLECTRIQUE NE PAS OUVRIR CAUTION: To reduce the risk of electric shock, do not remove cover (or back). No user-serviceable parts inside. Refer servicing to qualified service personnel. WARNING TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE. This symbol is intended to alert you of the presence of important operating and maintenance (servicing) instructions in the literature accompanying this product.
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Notice à l'attention des installateurs de réseaux câblés

Les instructions relatives aux interventions d'entretien, fournies dans la présente notice, s'adressent exclusivement au personnel technique qualifié. Pour réduire les risques de chocs électriques, n'effectuer aucune intervention autre que celles décrites dans le mode d'emploi et les instructions relatives au fonctionnement, à moins que vous ne soyez qualifié pour ce faire.

Remarque à l'attention de l'installateur du système Avec cet appareil, le blindage/écran du câble coaxial doit être mis à la terre aussi près que possible du point d'entrée du câble dans le bâtiment. En ce qui concerne les produits vendus aux États-Unis et au Canada, ce rappel est fourni pour attirer l'attention de l'installateur sur les articles 820-93 et 820-100 du Code national de l'électricité (ou Code de l'électricité canadien, Partie 1) qui fournissent des lignes directrices concernant la mise à la terre correcte du blindage (écran) du câble coaxial. Ce symbole a pour but de vous prévenir que des tensions électriques non isolées existent à l'intérieur de ce produit, pouvant être d'une intensité suffisante pour causer des chocs électriques. Il est donc dangereux d'établir un contact quelconque avec l'une des pièces comprises à l'intérieur de ce produit.	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN ATTENTION DANGER ÉLECTRIQUE NE PAS OUVRIR ATTENTION : Pour réduire les risques de chocs électriques, ne pas enlever le couvercle (ou le panneau arrière). Ne contient aucune pièce réparable par l'utilisateur. Confier les interventions aux techniciens d'entretien qualifiés. AVERTISSEMENT POUR ÉVITER LES INCENDIES OU LES CHOC ÉLECTRIQUES, NE PAS EXPOSER L'APPAREIL À LA PLUIE OU À L'HUMIDITÉ. Ce symbole a pour but de vous prévenir de la présence d'instructions importantes relatives au fonctionnement ou à l'entretien (et aux réparations) dans la documentation accompagnant ce produit.
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Mitteilung für CATV-Techniker

Die in dieser Mitteilung aufgeführten Wartungsanweisungen sind ausschließlich für qualifiziertes Fachpersonal bestimmt. Um die Gefahr eines elektrischen Schlags zu reduzieren, sollten Sie keine Wartungsarbeiten durchführen, die nicht ausdrücklich in der Bedienungsanleitung aufgeführt sind, außer Sie sind zur Durchführung solcher Arbeiten qualifiziert.

Mitteilung an den Systemtechniker Für dieses Gerät muss der Koaxialkabelschutz/ Schirm so nahe wie möglich am Eintrittspunkt des Kabels in das Gebäude geerdet werden. Dieser Erinnerungshinweis liegt den in den USA oder Kanada verkauften Produkten bei. Er soll den Systemtechniker auf Paragraph 820-93 und Paragraph 820-100 der U.S.-Elektrovorschrift NEC (oder der kanadischen Elektrovorschrift Canadian Electrical Code Teil 1) aufmerksam machen, in denen die Richtlinien für die ordnungsgemäße Erdung des Koaxialkabelschirms festgehalten sind.	 CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN ACHTUNG STROMSCHLAGEGEFAHR, NICHT ÖFFNEN  ACHTUNG: Zur Vermeidung eines Stromschlags darf die Abdeckung (bzw. die Geräterückwand) nicht entfernt werden. Das Gerät enthält keine vom Benutzer wartbaren Teile. Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal durchgeführt werden. WARNUNG DAS GERÄT NICHT REGEN ODER FEUCHTIGKEIT AUSSETZEN, UM STROMSCHLAG ODER DURCH EINEN KURZSCHLUSS VERURSACHTEN BRAND ZU VERMEIDEN.
 Dieses Symbol weist den Benutzer auf das Vorhandensein von nicht isolierten gefährlichen Spannungen im Gerät hin, die Stromschläge verursachen können. Ein Kontakt mit den internen Teilen dieses Produktes ist mit Gefahren verbunden.	 Dieses Symbol weist den Benutzer darauf hin, dass die mit diesem Produkt gelieferte Dokumentation wichtige Betriebs- und Wartungsanweisungen für das Gerät enthält.

Aviso a los instaladores de sistemas CATV

Las instrucciones de reparación contenidas en el presente aviso son para uso exclusivo por parte de personal de mantenimiento cualificado. Con el fin de reducir el riesgo de descarga eléctrica, no realice ninguna otra operación de reparación distinta a las contenidas en las instrucciones de funcionamiento, a menos que posea la cualificación necesaria para hacerlo.

Nota para el instalador del sistema En lo que se refiere a este aparato, el blindaje del cable coaxial debe conectarse a tierra lo más cerca posible al punto por el cual el cable entra en el edificio. En el caso de los productos vendidos en los EE. UU. y Canadá, el presente aviso se suministra para llamar la atención del instalador del sistema sobre los Artículos 820-93 y 820-100 del NEC (o Código Eléctrico de Canadá, Parte 1), que proporcionan directrices para una correcta conexión a tierra del blindaje del cable coaxial.	 CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN ATENCIÓN RIESGO DE DESCARGA ELÉCTRICA NO ABRIR  ATENCIÓN: con el fin de reducir el riesgo de descarga eléctrica, no retire la tapa (ni la parte posterior). No existen en el interior componentes que puedan ser reparados por el usuario. Encargue su revisión a personal de mantenimiento cualificado. ADVERTENCIA PARA EVITAR EL RIESGO DE INCENDIO O DESCARGA ELÉCTRICA, NO EXPONGA LA UNIDAD A LA LLUVIA O A LA HUMEDAD.
 Este símbolo tiene como fin advertirle de que una tensión sin aislamiento en el interior de este producto podría ser de una magnitud suficiente como para provocar una descarga eléctrica. Por consiguiente, resulta peligroso realizar cualquier tipo de contacto con alguno de los componentes internos de este producto.	 Este símbolo tiene como fin alertarle de la presencia de importantes instrucciones de operación y mantenimiento (revisión) contenidas en la literatura que acompaña al producto.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12.  Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as a power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Power Source Warning

A label on this product indicates the correct power source for this product. Operate this product only from an electrical outlet with the voltage and frequency indicated on the

product label. If you are uncertain of the type of power supply to your home or business, consult your service provider or your local power company.

The AC inlet on the unit must remain accessible and operable at all times.

Ground the Product



WARNING: Avoid electric shock and fire hazard! If this product connects to coaxial cable wiring, be sure the cable system is grounded (earthed). Grounding provides some protection against voltage surges and built-up static charges.

Verify the Power Source from the On/Off Power Light

When the on/off power light is not illuminated, the apparatus may still be connected to the power source. The light may go out when the apparatus is turned off, regardless of whether it is still plugged into an AC power source.

Eliminate AC Mains Overloads



WARNING: Avoid electric shock and fire hazard! Do not overload AC mains, outlets, extension cords, or integral convenience receptacles. For products that require battery power or other power sources to operate them, refer to the operating instructions for those products.

Provide Ventilation and Select a Location

- Remove all packaging material before applying power to the product.
- Do not place this apparatus on a bed, sofa, rug, or similar surface.
- Do not place this apparatus on an unstable surface.
- Do not install this apparatus in an enclosure, such as a bookcase or rack, unless the installation provides proper ventilation.
- Do not place items such as lamps, books, vases with liquids, or other objects on top of this product.
- Do not block ventilation openings.

Protect from Exposure to Moisture and Foreign Objects



WARNING: Avoid electric shock and fire hazard! Do not expose this product to dripping or splashing liquids, rain, or moisture. Objects filled with liquids, such as vases, should not be placed on this apparatus.



WARNING: Avoid electric shock and fire hazard! Unplug this product before cleaning. Do not use a liquid cleaner or an aerosol cleaner. Do not use a magnetic/static cleaning device (dust remover) to clean this product.



WARNING: Avoid electric shock and fire hazard! Never push objects through the openings in this product. Foreign objects can cause electrical shorts that can result in electric shock or fire.

Service Warnings



WARNING: Avoid electric shock! Do not open the cover of this product. Opening or removing the cover may expose you to dangerous voltages. If you open the cover, your warranty will be void. This product contains no user-serviceable parts.

Check Product Safety

Upon completion of any service or repairs to this product, the service technician must perform safety checks to determine that this product is in proper operating condition.

Protect the Product When Moving It

Always disconnect the power source when moving the apparatus or connecting or disconnecting cables.

Battery Replacement Warnings



WARNING: The battery(ies) used in each device may present a fire or chemical burn hazard if mistreated. Do not recharge, disassemble, heat above 100°C (212°F) or dispose of in fire. Replace battery(ies) with specified manufacturer batteries only. Use of another battery(ies) may present a risk of fire or explosion."

1 Introduction

The purpose of this document is to provide an overview of the AT&T Digital Life System (DLS) and instructions concerning the installation and operations of the Digital Life System (DLS) with a second generation DLC-200C unit.

The AT&T Digital Life System is a services delivery platform. The DLS includes a Network Platform and a Premises Platform in which the primary communication path between the platforms is provided via AT&T Cellular Data Service. The DLS also includes AT&T Digital Life Data Centers and AT&T Digital Life Central Monitoring Centers.

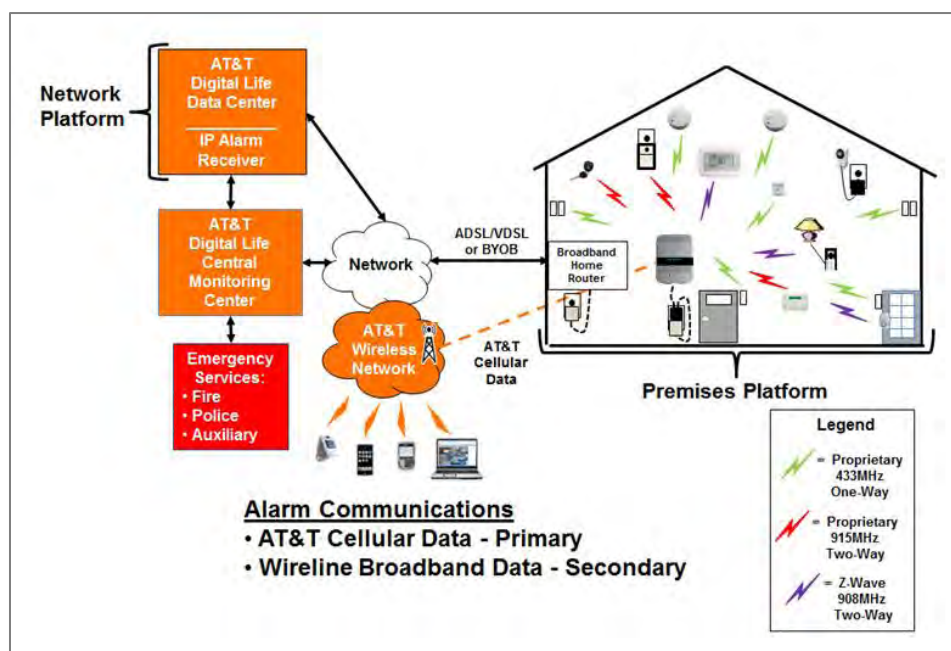
2 Digital Life System Overview

2.1 System Architecture

The AT&T Digital Life System (DLS) is an Internet Protocol (IP) based end-to-end services delivery platform that AT&T utilizes in providing services to customers. The DLS includes a Network Platform and a Premises Platform. AT&T Cellular Data Service provides the primary communication between the Network Platform and the Premises Platform. A secondary communication path between the Network Platform and the Premises Platform is established via a customer provided Bring-Your-Own-Broadband service, which can be based on an ADSL, VDSL, FiOS, cable modem or some other wireline broadband data service.

The DLS is utilized to offer consumer customers Professionally Monitored Home Security and Home Automation & Control services. Figure 1 is a representation of the AT&T DLS Architecture, including a second generation DLC-200C unit. Within the system architecture the Network Platform includes AT&T Digital Life Data Centers.

Figure 1: AT&T Digital Life System Architecture



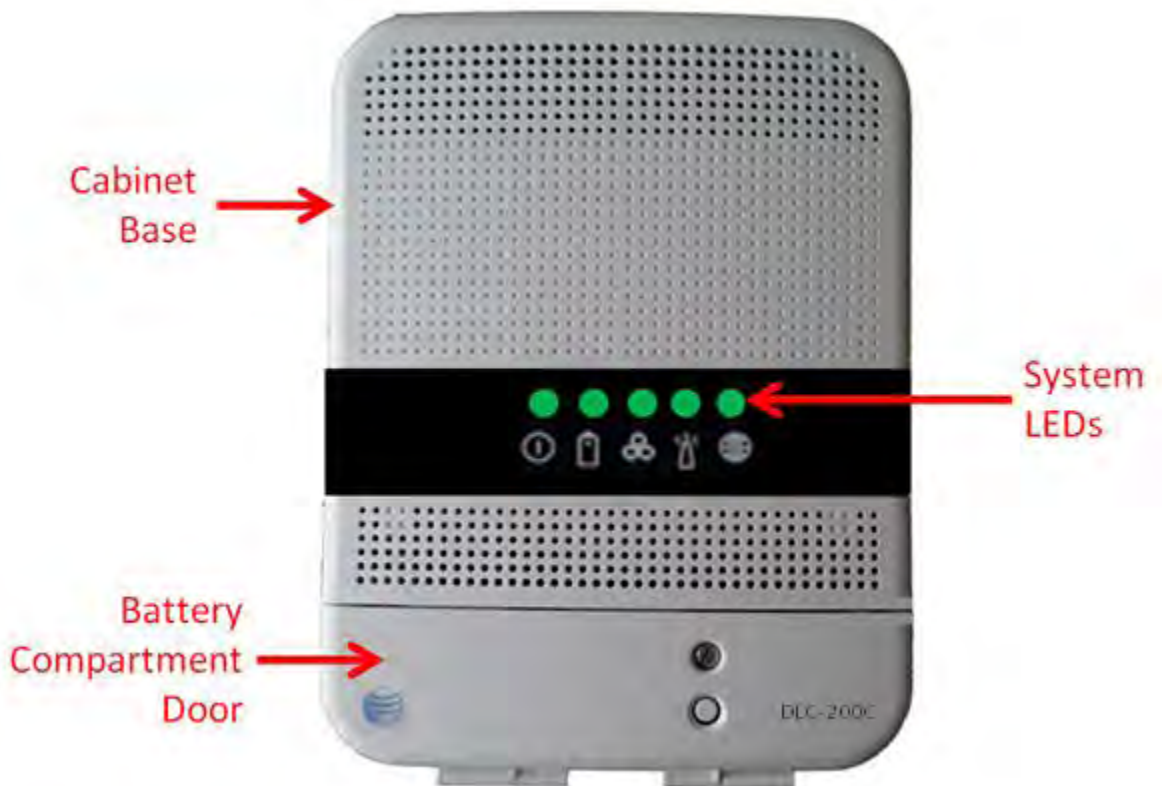
NOTE: The Z-Wave protocol and devices are not part of the UL Listed Fire and Security System.

The architecture also features AT&T Central Monitoring Centers, which are UL listed. There are AT&T high speed wireline data facilities that interconnect all of the data centers and the monitoring centers. IP Alarm Receivers are located in the AT&T Digital Life Data Centers. When an alarm is received by an IP Alarm Receiver, it is automatically sent to the AT&T Digital Life Central Monitoring Centers.

2.2 Digital Life Controller (DLC-200C)

The DLC-200C is a second generation Digital Life Controller (DLC). It is installed in the customer's home. The DLC-200C is wall mounted in a closet, utility room or basement similar to a traditional home security cabinet and adjacent to an AC power outlet. The cabinet base is made out of plastic and features a wall mounting plate and a cabinet, which slides onto the wall mounting plate. There is a battery backup compartment door located at the bottom of the cabinet. The Battery Backup Compartment houses the rechargeable battery, which is customer replaceable. The cabinet features five (5) System LEDs, as shown in Figure 2:

Figure 2: Digital Life Controller (DLC-200C)



AT&T Proprietary Information. All rights reserved.

The System LEDs function as outlined below:

- ALL five (5) LEDs flash for one (1) second during the initial power up.
- AC POWER  —**Flashing Green** Indicates powering up; **Green** indicates DLC-200C is operational; **OFF** indicates Local Power Failure.

NOTE: The DLC-200C is operational when it starts communicating over AT&T Cellular Data Service and/or customer provided wireline broadband data service.

- BATTERY  —**Flashing Green** indicates powering up; **Green** indicates the battery is installed; **Red** indicates the battery needs to be replaced; **OFF** indicates the battery is NOT installed.
- SYSTEM  — (see table below)

LED	SYSTEM LED Behavior	
OFF	Initial Power-ON state	
Flashing Green	Indicates Powering Up	
Green	indicates system is good	
Red	• Initial state when Digital Life Application (DLA) is running • DLA has shutdown • indicates there is some other system problem	
Flashing yellow then flashing green	indicates Radio Frequency (RF) Jamming	
	Type of RF Jamming	SYSTEM LED Behavior
	One-Way 433 MHz Jamming at DLC-200C Cabinet	SYSTEM LIGHT blinks yellow once, blinks green once then repeats

LED	SYSTEM LED Behavior	
	Two-Way 915 MHz Jamming at DLC-200C Cabinet	SYSTEM LIGHT blinks yellow once, blinks green twice then repeats
	One-Way 433 MHz Jamming at a Signal booster (SW-ATT-RPTR4)	SYSTEM LIGHT blinks yellow once, blinks green three (3) times then repeats
	Two-Way 915 MHz Jamming at a Signal booster (SW-ATT-RPTR9)	SYSTEM LIGHT blinks yellow once, blinks green four (4) times then repeats
	WARNING! If the SYSTEM LIGHT is flashing YELLOW then flashes GREEN repeating and an auditory signal is coming from the DLC-200C cabinet, the DLC-200C cabinet is detecting Radio Frequency (RF) Jamming. Please call 1-855-288-2727 for Technical Support.	
Yellow	indicates the system is in Maintenance Mode. NOTE: The DLC-200C is in Maintenance Mode when software is being installed.	

- 
WIRELESS BROADBAND — **OFF** indicates no cellular connection; **GREEN** Indicates good cellular connection and DLA is communicating with Digital Life Network Platform; **Flashing GREEN** or **YELLOW** indicates a good cellular connection with IP address from the cell tower; **RED** indicates a weak cellular connection with IP address from the cell tower.
- 
WIRELINE BROADBAND — **OFF** indicates no broadband connection; **GREEN** Indicates broadband connection and DLA is communicating with Digital Life

Network Platform; **Flashing GREEN** or **YELLOW** indicates broadband connection and an IP address from the customer's broadband home router.

NOTE: Under local power failure condition the BATTERY, SYSTEM and WIRELESS BROADBAND LEDs will flash simultaneously and WIRELINE BROADBAND data service will not be operating.

2.2.1.1 Digital Life Controller (Model DLC-200C) LED Behavior During a Firmware Upgrade

During a DLC-200CEU firmware (FW) upgrade the five (5) LEDs provide a visual indication of the status of the FW upgrade.

The LED behavior during the FW upgrade is as follows.

LED	Firmware Upgrade Status				
	0—20%	20—40%	40—60%	60—80%	80—99%
Power	Green Flash	Green Solid	Green Solid	Green Solid	Green Solid
Battery	Green Flash	Green Flash	Green Solid	Green Solid	Green Solid
System	Green Flash	Green Flash	Green Flash	Green Solid	Green Solid
Wireless Broadband	Green Flash	Green Flash	Green Flash	Green Flash	Green Solid
Wired Broadband	Green Flash	Green Flash	Green Flash	Green Flash	Green Flash

2.2.1.2 Digital Life Controller (Model DLC-200C) LED Behavior When a Security Certificate Expires

When an expired security certificate condition occurs the Power  LED and Battery  LED will alternately flash **RED** every second until the security certificate is renewed.

2.2.1.3 Digital Life Controller (Model DLC-200C) LED Power-On Test

When the Digital Controller is initially powered-ON a LED test will automatically be performed to verify that the LEDs are operating correctly. The LEDs will illuminate as follows:

Approximate Time	Power LED	Battery LED	System LED	Wireless Broadband LED	Wireline Broadband LED	Status
0						All LEDs are Off
0 - 0.33s						LEDs Power-On Test
0.33 - 0.66s						LEDs Power-On Test
0.66 – 1s						LEDs Power-On Test

2.2.1.4 Digital Life Controller (Model DLC-200C) Cabinet

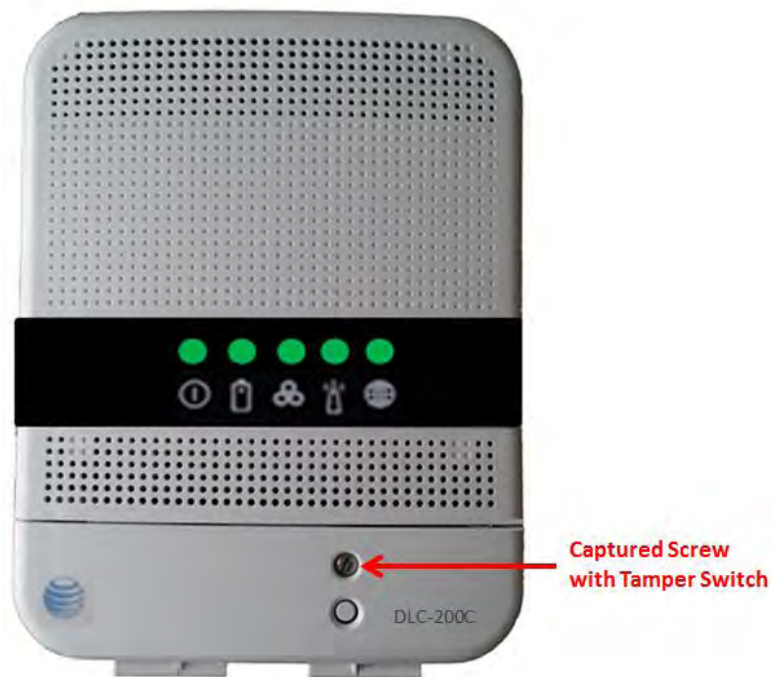
The DLC-200C cabinet is equipped with a number of standard modules, including:

- AT&T Cellular Data Modem (Located in the Wall Mounting Plate)
- Proprietary one-way 433 MHz Module

- Proprietary two-way 915 MHz Module
- 24-Hour Battery Backup
- Wi-Fi Module
- Z-Wave Module (908 MHz)

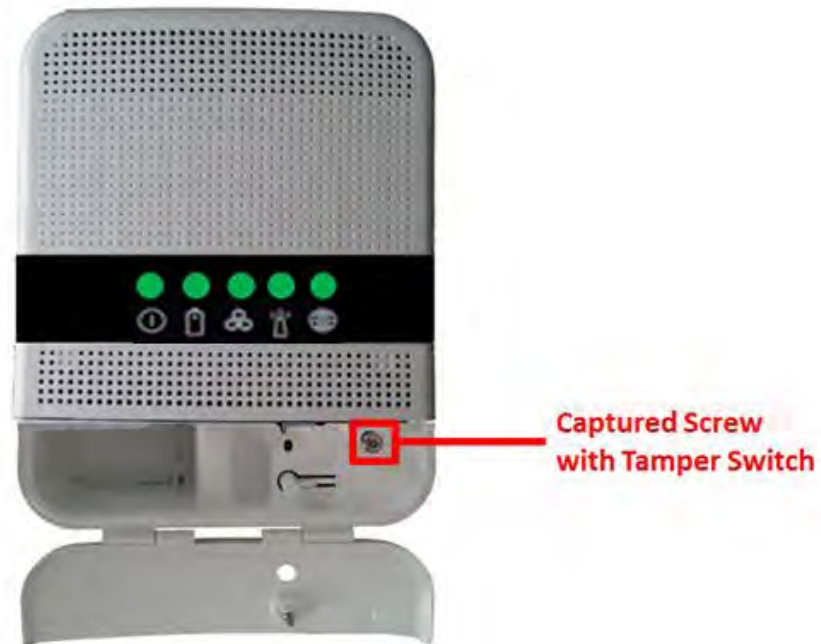
The cabinet is equipped with two (2) tamper switches, which are embedded in the captured screws. The first tamper switch is embedded in the screw that is used to open the Battery Backup Compartment, as shown in Figure 3.

Figure 3: Battery Compartment Door Captured Screw with Tamper Switch



The second tamper switch is embedded in the screw inside the Battery Backup Compartment that is used to secure the DLC-200C base to the wall mounting plate, as shown in Figure 4.

Figure 4: Mounting Plate Captured Screw with Tamper Switch



After the system is armed the tamper switches, when triggered, will automatically send alarms to the AT&T Digital Life Central Monitoring Center. The tamper switches function as follows:

- The tamper switch is located on the front of the Battery Compartment Door is triggered when the screw is being loosened.
- The tamper switch is located inside the Battery Backup Compartment Door is triggered when the screw is being loosened.

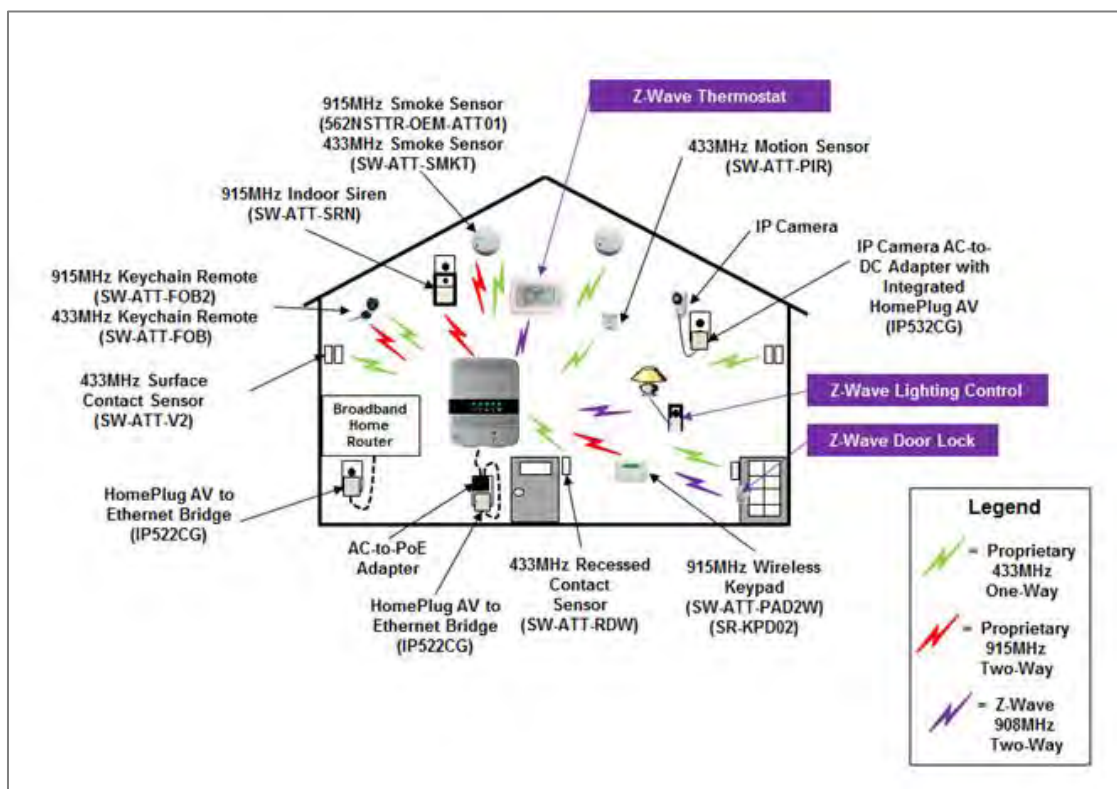
NOTE: All screws associated with the DLC-200C are captured screws and cannot be removed from the unit.

2.3 Digital Life Premises Devices

2.3.1 Premises Devices

Figure 5 depicts the Digital Life Premises Devices that communicate with the DLC-200C.

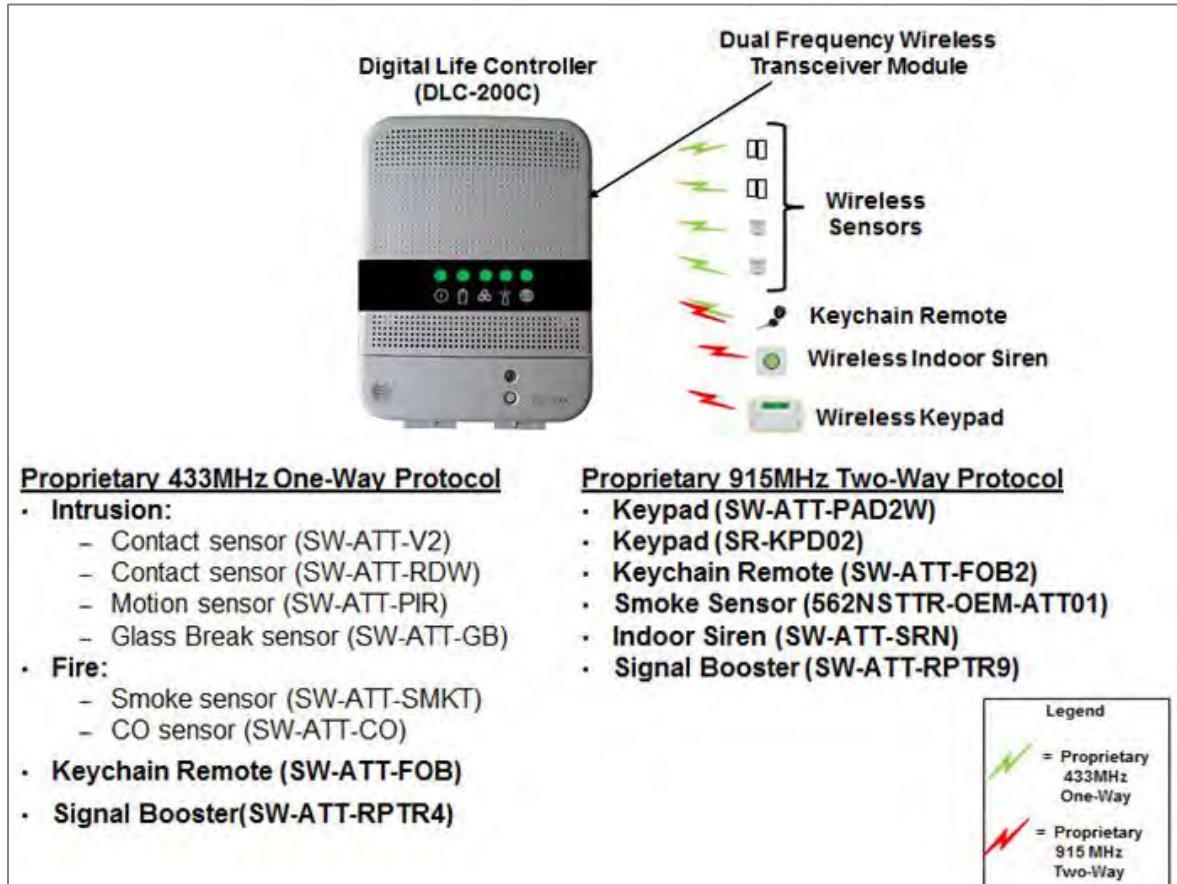
Figure 5: Digital Life Premises Devices



Within the Premises Platform a proprietary one-way 433 MHz radio technology is utilized with wireless intrusion sensors, smoke/CO detection devices and a keychain remote.

A proprietary two-way 915 MHz radio technology is utilized with wireless keypads, keychain remotes, smoke detection devices and indoor sirens, (See Figure 6). Signal boosters (433 MHz and 915 MHz) are available to extend the transmission range of the 433 MHz and/or 915 MHz devices, when needed.

Figure 6: Dual Frequency Wireless Transceiver Module – Proprietary 433/915MHz

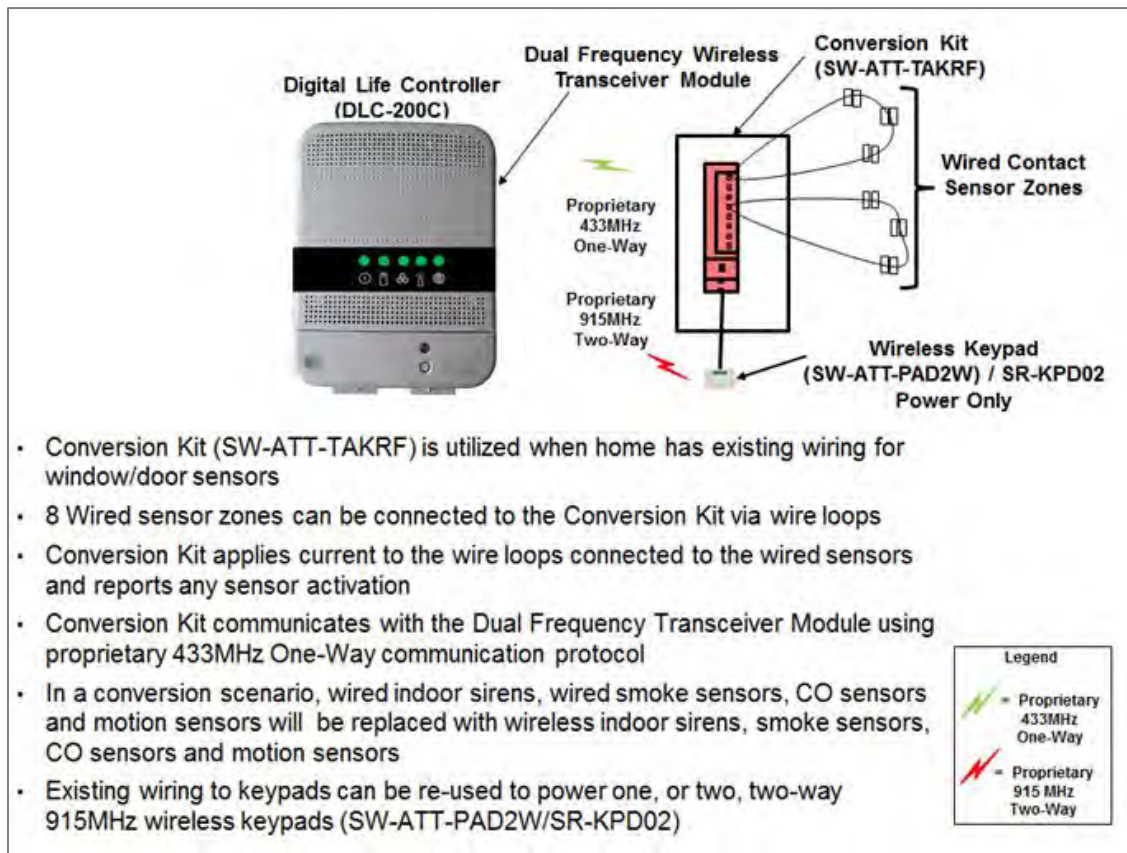


NOTE: The standard installation may include 433 MHz and 915 MHz devices.

2.3.2 Optional Conversion Kit

When Digital Life installations are done in homes with existing wired security systems, then an optional Conversion Kit can be utilized to re-use the existing wired door/window sensors and re-use the existing wiring to keypads for powering (up to two) two-way 915MHz wireless keypads, as shown in Figure 7. (See 6.4.10.1.2 *Powering the 915 MHz Two-Way Keypad* for detailed information.)

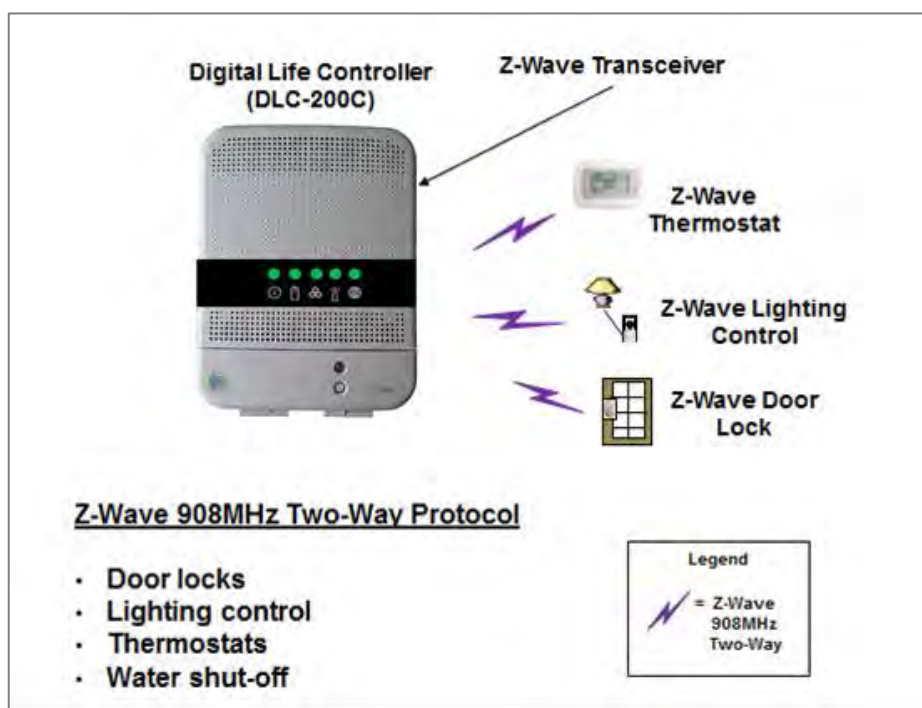
Figure 7: Optional Conversion Kit—Wired Door/Window Sensors and Wireless Keypad Power



2.3.3 Optional Z-Wave Devices (Supplementary use only. Not part of the UL Listed fire and security system.)

Within Digital Life, Z-Wave 908MHz two-way technology can be utilized to support optional home automation and control devices and associated services. (See Figure 8)

Figure 8: Z-Wave Wireless Transceiver Module—908MHz Two-Way



2.4 Digital Life System Installation and Configuration

Unlike traditional security systems wherein a keypad is utilized to perform system installation and configuration, the DLS installation and configuration is completed using a Web tool, such as Digital Life Direct (DLD), on a PC or tablet device, such as an iPad. The Web tool enables an installation technician to place the DLC-200C into the "Discovery" mode. While the DLC-200C is in the "Discovery" mode, the technician places devices in the "Discoverable" mode. The devices are discovered and registered with the DLC-200C (see *Section 3: Digital Life Direct Overview* for more details). After devices have been discovered, the technician utilizes the Web tool to selectively place intrusion sensors into the "Armed-Stay" and "Armed-Away" categories and establish Exit Delay and Entry Delay times. The technician also uses the Web tool to label the devices.

2.5 *Digital Life System Operation*

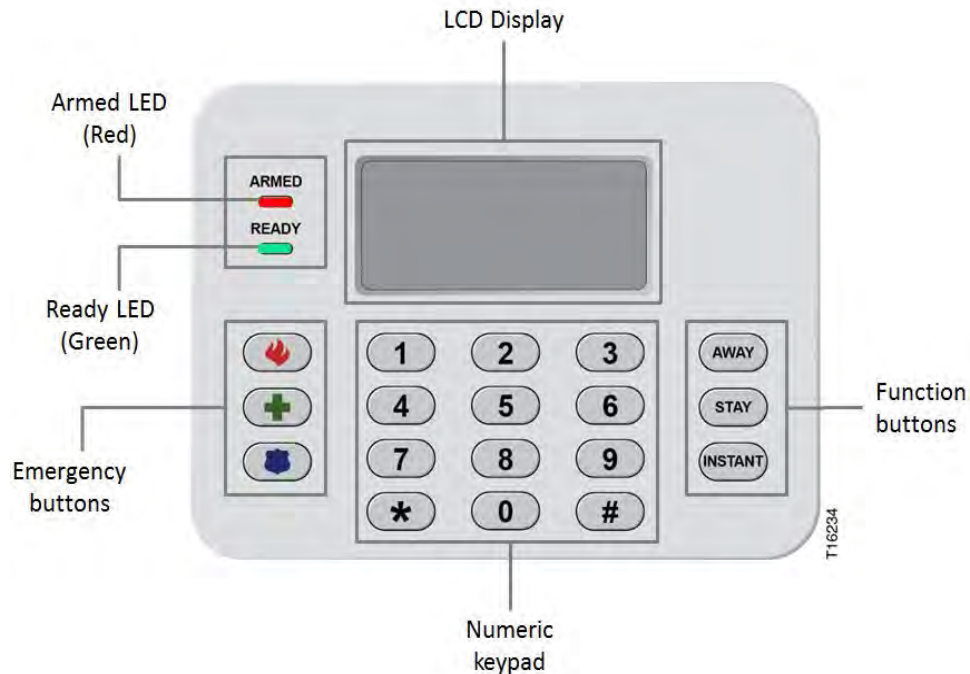
The DLS can be operated by utilizing a 433 MHz One-Way Four Button Keychain Remote (Model SW-ATT-FOB), a 915 MHz Two-Way Four Button Keychain Remote (SW-ATT-FOB2), or a 915 MHz Two-Way Keypad (Model SR-KPD02).

Within the home the 915 MHz Two-Way Keypad (Model SR-KPD02) provides access to system operation, including the following functions:

- Arm-Stay
- Arm-Away
- Arm-Instant
- Bypass
- Disarm
- Fire Emergency
- Auxiliary Emergency
- Police Emergency

The customer must enter his/her four (4) digit Security PIN into the keypad in order to disarm the system. The customer can create his/her four (4) digit Security PIN using a Web tool (www.att.com/dlpin). The Digital Life Keypad (Model SR-KPD02) is depicted in Figure 9.

Figure 9: 915 MHz Two-Way Wireless Keypad (Model SR-KPD02)



The following messages can appear in the display of the 915 MHz Keypads (see, *Section 8: System Messages on the Keypad (Model SR-KPD02) Display*) for a complete listing of all of the messages):

- Arming-Exit Now
- Armed – STAY
- Armed – AWAY
- Armed – INSTANT
- Press * -BYPASS
- Alarm- Enter PIN
- Alarm Canceled
- Clear - Enter PIN
- Press * -Confirm
- Fire Emergency
- Aux Emergency
- Police Emergency

- Fire Alarm Sent
- CO Alarm Sent
- Intrusion Alarm

Within the home a 433 MHz One-Way Four (4) Button Keychain Remote (Model SW-ATT-FOB) and/or 915 MHz Keychain Remote (Model SW-ATT-FOB2) can also be used to operate the system, which includes the following functions:

- Arm-STAY
- Arm-AWAY
- Arm-INSTANT (*Keychain Remote (Model SW-ATT-FOB2 only)*)
- Disarm

Figure 10: 433 MHz One-Way Keychain Remote (Model SW-ATT-FOB)



Figure 11: 915 MHz Two-Way Keychain Remote (Model SW-ATT-FOB2)



2.6 Digital Life System Alarm Reporting

Within the Digital Life System the DLC-200C is equipped with an Alarm Manager application which receives alarm messages from 433MHz one-way intrusion devices and fire devices and 915 MHz two-way intrusion and fire devices. The Alarm Manager application sends alarm messages over the AT&T Cellular Data Network to an IP Alarm Receiver located in an AT&T Digital Life Data Center. The alarms are then automatically passed to the AT&T Digital Life Central Monitoring Center for handling.

The following are the primary alarm messages that can be communicated from the Alarm Manager application executing on the DLC-200C in a customer's home to the AT&T Digital Life Central Monitoring Center via the IP Alarm Receiver:

- Fire - with device identification
- Intrusion - with device identification
- Fire Emergency - from fixed function button on keypad
- Auxiliary (AUX) Emergency - from fixed function button on keypad
- Police Emergency - from fixed function button on keypad
- Low battery - with device identification
- Tamper – alarms from the DLC-200C and other devices

2.7 Event Notification Service (Supplementary use only. Not part of the fire and security system.)

Optionally within their Digital Life Service, customers can be automatically notified when specified events occur in their home. There are a wide range of possible events that could trigger a notification, including:

- Water detected
- High temperature
- Low temperature
- Door opened
- Motion detected

NOTE: Customers have the option of being notified via text messaging or email.

2.8 Remote Video Monitoring (Supplementary use only. Not part of the fire and security system.)

As an option, Digital Life customers are able to purchase Indoor Cameras and/or Outdoor Cameras for use with their Digital Life Service.

Indoor Cameras and/or Outdoor Cameras can be installed in the home network utilizing HomePlug AV or Wi-Fi technologies.

2.9 Home Automation & Control (Supplementary use only. Not part of the fire and security system.)

As an option, Digital Life customers can purchase home automation and control devices equipped with Z-Wave technology for use in their homes in conjunction with their Digital Life Service. Some of the products include:

- Door locks
- Lighting control
- Thermostats
- Water shut-off valves

2.10 Digital Life System Operation Under a Local Power Failure Condition

The Digital Life System is equipped with a twenty-four (24) hour battery backup capability and will continue to operate under local power failure conditions for twenty-four (24) hours and four (4) minutes. When operating under a power failure condition the following sub-systems within the DLC-200C cabinet are powered off:

- Wi-Fi Transceiver Module
- Z-Wave Transceiver Module

When operating under a local power failure condition, the AC POWER LED and WIRELINE BROADBAND LED on the DLC-200C cabinet will be OFF. In addition, the BATTERY, SYSTEM and WIRELESS BROADBAND LEDs will flash simultaneously. Wireline broadband data service will not be operating.

NOTE: The DLC-200C waits one (1) minute before transitioning to Battery Mode in case the power loss is temporary. It also waits one (1) minute when AC power is restored to ensure that the power restore is not temporary.

When operating under a local power failure condition, all of the proprietary 433 MHz one-way sensor/sensor devices will continue to operate as designed and are not impacted by a local power failure condition. Under normal operating conditions the proprietary Signal Booster (433) (Model SW-ATT-RPTR4) and Conversion Kit (Model SW-ATT-TAKRF) receive power from AC-to-DC power conversion, but they are equipped with twenty-four (24) hour battery backup and will continue to operate for twenty-four (24) hours under a local power failure condition. They are equipped with customer replaceable batteries.

Under normal operating conditions the proprietary 915 MHz Two-Way devices, including the Keypad (Model SR-KPD02), Smoke Sensor (562NSTT-OEM-ATT01), Indoor Siren (Model SW-ATT-SRN) and Signal Booster Model (SW-ATT-RPTR9), receive power from AC-to-DC power conversion, but they are equipped with twenty-four (24) hour battery backup and will continue to operate for twenty-four (24) hours under a local power failure condition. All five devices are equipped with customer replaceable batteries.

3 Digital Life Direct Overview

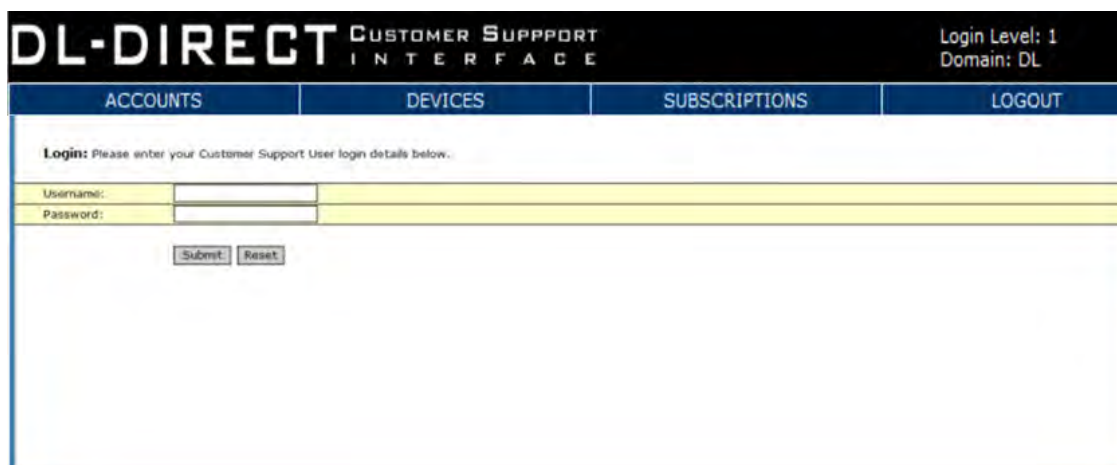
Digital Life Direct (DLD) is a Web tool that can be used by a Digital Life Technician (DLT) to install and configure the Digital Life System (DLS) in a customer's home. It enables the DLT to remotely activate subscriptions, access account information, program system features and discover and label devices. Installation programming of the DLC-200C can be performed locally by the DLT using DLD. In addition the tool enables the DLT to monitor and test the operation of the system. The DLT can access the DLD Web tool using a laptop or wireless tablet device, such as an iPad.

Before the DLT arrives at the customer's home to do the DLS installation, an account will already have been established in the Digital Life Network Platform for the customer. During the installation process the DLT will utilize DLD to register the customer's Digital Life Controller (DLC-200C) with the Digital Life Network Platform.

3.1 Access Customer's Digital Life Controller (DLC-200C)

The DLT accesses a specific internet Website (URL) to access the DLD Web Tool. When the DLT accesses the Web tool, they are prompted to enter a Username and Password. Here is an example of the login process in Figure 12.

Figure 12: DLD Login Screen



DL-DIRECT CUSTOMER SUPPORT INTERFACE		Login Level: 1 Domain: DL
ACCOUNTS	DEVICES	SUBSCRIPTIONS
		LOGOUT
Login: Please enter your Customer Support User login details below.		
Username:		
Password:		
Submit Reset		

After completing the login process, the DLT will see the Account Search screen. The DLT will enter the customer's Username, Account ID or Billing Account Number (BAN) to access the customer's account. (See Figure 13.)

Figure 13: DLD—Enter Account Number



DL-DIRECT CUSTOMER SUPPORT INTERFACE Login Level: 1
Domain: DL

ACCOUNTS DEVICES SUBSCRIPTIONS LOGOUT

Enter Username:

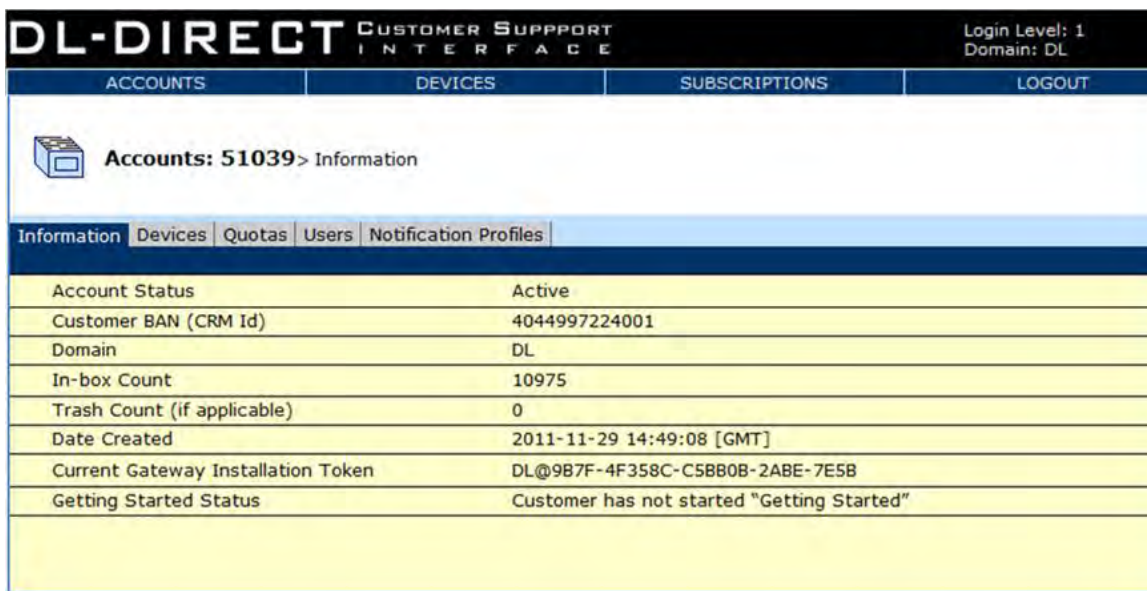
Accounts: Search:

☐ By Username ☒ By Account Id ☐ By Customer BAN (CRM Id)

No matching account record found.

The DLT will then see the customer's account displayed on the Information tab. (See Figure 14.)

Figure 14: DLD—Account Information



DL-DIRECT CUSTOMER SUPPORT INTERFACE Login Level: 1
Domain: DL

ACCOUNTS DEVICES SUBSCRIPTIONS LOGOUT

Accounts: 51039 > Information

Information | Devices | Quotas | Users | Notification Profiles

Account Status	Active
Customer BAN (CRM Id)	4044997224001
Domain	DL
In-box Count	10975
Trash Count (if applicable)	0
Date Created	2011-11-29 14:49:08 [GMT]
Current Gateway Installation Token	DL@9B7F-4F358C-C58B0B-2ABE-7E5B
Getting Started Status	Customer has not started "Getting Started"

After the device has been installed and powered up, DLC-200C will automatically register with the Digital Life Network Platform. When the DLT selects the Devices tab, the DLT will see the list of Devices that are registered, including the DLC-200C (Gateway). (See Figure 15.)

Figure 15: DLD—Devices Screen

DL-DIRECT

CUSTOMER SUPPORT
INTERFACE

Login Level: 1
Domain: DL

ACCOUNTS

DEVICES

SUBSCRIPTIONS

LOGOUT

Accounts: 51039> Devices

● ONLINE ● OFFLINE ● UNKNOWN

Information

Devices

Quotas

Users

Notification Profiles

Name	Device Class	Subscription ID (CTN)	Last Contact/Event Time [GMT]	Date Registered [GMT]	Delete
● Gateway 2B:E9	Appliance/Gateway	4044997224	2012-07-06 14:52:13	2012-03-09 02:51:28	
● Contact A000103	Contact Sensor			2012-07-05 17:25:29	Delete
● Contact A00012C	Contact Sensor			2012-07-05 17:25:29	Delete
● Virtual Device 00	Contact Sensor			2012-05-29 16:37:33	Delete
● Virtual Device 01	Contact Sensor			2012-07-05 17:25:29	Delete
● Motion 4FFFE4	Motion Sensor			2012-07-06 00:41:11	Delete
● Smoke detector 2000043	Smoke Sensor			2012-07-05 17:28:05	Delete
● Glass break sens 9000037	Glass Breakage Sensor			2012-07-05 20:42:21	Delete
● CO detector B000049	CO Sensor			2012-07-05 17:31:54	Delete
● Siren 300000F	Siren			2012-07-05 18:35:46	Delete
● AlarmKeypad 2000003	Alarm Keypad			2012-07-06 01:55:28	Delete
● AlarmKeypad 3039	Alarm Keypad			2012-07-04 16:49:35	Delete
● Alarm Manager	Xanboo Alarm Panel			2012-04-17 21:50:33	Delete

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NOTE: The DLT can delete a device by selecting the device and clicking the **Delete** link.

3.2 Device Discovery Mode and Discovery Process

In order to place the DLC-200C into the Discovery mode, so that devices can be discovered and registered, the DLT will select the DLC-200C (Gateway) and the screen depicted in Figure 16 will display.

Figure 16: DLD—Digital Life Controller (DLC-200C) Specific Details Screen

Information Devices Quotas Users Notification Profiles	
Device Information	
Name:	Gateway 2B:E9 Edit
Status:	● ONLINE
Catalog ID:	000010000010004
Gateway GUID:	C6B95ACBF52E454E802F690635CE488D
Device GUID:	0
Hardware Serial Number:	00:24:E8:0E:CD:DD
Firmware Version:	JVM: 1.6.0_26; OS: Windows 7 6.1; FW: lprf: 01.02.0C
Software Version:	1.0.02
Time Zone:	GMT
Last Contact:	2012-07-06 14:55:13 [GMT]
Date Registered:	2012-03-09 02:51:28 [GMT]
Registered By:	ah0062
Location Code:	Floor: N/A Edit Room: N/A Egress: N/A
Battery Level:	90%
Power Source:	AC
Gateway Specific Details:	
Start Discovery View Log Upload Log Reboot Factory Defaults	
Test/Maintenance Mode:	Off Start Test Mode
3G Status:	Up
Broadband Status:	Up
3G IP:	10.1.1.72
Direct Path:	YES - via Source Header IP
Header IP:	10.1.1.51
Appliance IP 1:	10.10.13.15
Appliance IP 2:	-
Appliance Port:	32000
Slow poll period:	60
Fast poll period:	10
Location:	US_10001
Service/Subscription:	
Subscription Status:	Active/Live Service
Subscription ID (CTN):	4044997224
Subscription IMEI:	004044997224002
Traffic Profile:	3G+BB Profile
Alarm Video verification:	Disabled
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IMPORTANT! The discovery method is basically the same for all of the devices that the DLT will install and register with the customer's DLC-200C (Gateway). While the DLC-200C is in the Discovery mode, the DLT will install each device and make it discoverable, and then the device will automatically be discovered and registered with the DLC-200C.

The DLT will select **Start Discovery**, in order to place the DLC-200C in the Discovery mode and start discovering devices. The DLT will see the screens depicted in Figure 17 and Figure 18.

Figure 17: DLD—Start Discovery – Initializing Please Wait

ACCOUNTS	DEVICES	SUBSCRIPTIONS	LOGOUT
 Accounts: 51039 > Device Details ● ONLINE ● OFFLINE ● UNKNOWN			
Information Devices Quotas Users Notification Profiles			
Device Information			
Name:	Gateway 28:E9 Edit		
Status:	● ONLINE		
Catalog ID:	000010000010004		
Gateway GUID:	C6B95ACBF52E454E802F690635CE488D		
Device GUID:	0		
Hardware Serial Number:	00:24:E8:0E:CD:DD		
Firmware Version:	JVM: 1.6.0_26; OS: Windows 7 6.1; FW: lprf: 01.02.0C		
Software Version:	1.0.02		
Time Zone:	GMT		
Last Contact:	2012-07-06 15:13:26 [GMT]		
Date Registered:	2012-03-09 02:51:28 [GMT]		
Registered By:	ah0062		
Location Code:	Floor: N/A Edit Room: N/A Egress: N/A		
Battery Level:	90%		
Power Source:	AC		
Gateway Specific Details:			
Stop Discovery Initializing. Please wait			
Name	Device Class	Date Registered [GMT]	Registered By
Contact A000103	0102	2012-07-05 17:25:29	ah0062
Contact A00012C	0102	2012-07-05 17:25:29	ah0062
Virtual Device 00	0102	2012-05-29 16:37:33	ah0062
Virtual Device 01	0102	2012-07-05 17:25:29	ah0062
Motion 4FFFFE4	0103	2012-07-06 00:41:11	ah0062
Smoke detector 2000043	0106	2012-07-05 17:28:05	ah0062
Glass break sens 9000037	0108	2012-07-05 20:42:21	ah0062
CO detector B000049	010E	2012-07-05 17:31:54	ah0062
Siren 300000F	0601	2012-07-05 18:35:46	ah0062
AlarmKeypad 2000003	0608	2012-07-06 01:55:28	ah0062
AlarmKeypad 3039	0608	2012-07-04 16:49:35	ah0062
Alarm Manager	0701	2012-04-17 21:50:33	ah0062
Test/Maintenance Mode:	Off		
3G Status:	Up		
Broadband Status:	Up		
3G IP:	10.1.1.72		
Direct Path:	YES - via Source Header IP		
Header IP:	10.1.1.51		
Appliance IP 1:	10.10.13.15		
Appliance IP 2:	-		
Appliance Port:	32000		
Slow poll period:	60		
Fast poll period:	10		
Location:	US_10001		

Figure 18: DLD—Start Discovery – Discovery In Progress

ACCOUNTS	DEVICES	SUBSCRIPTIONS	LOGOUT																																																				
 Accounts: 51039 > Device Details ● ONLINE ● OFFLINE ● UNKNOWN 																																																							
Information Devices Quotas Users Notification Profiles																																																							
Device Information																																																							
Name:	Gateway 2B:E9 Edit																																																						
Status:	● ONLINE																																																						
Catalog ID:	000010000010004																																																						
Gateway GUID:	C6B95ACBF52E454E802F690635CE488D																																																						
Device GUID:	0																																																						
Hardware Serial Number:	00:24:E8:0E:CD:DD																																																						
Firmware Version:	JVM: 1.6.0_26; OS: Windows 7 6.1; FW: lprf: 01.02.0C																																																						
Software Version:	1.0.02																																																						
Time Zone:	GMT																																																						
Last Contact:	2012-07-06 15:00:24 [GMT]																																																						
Date Registered:	2012-03-09 02:51:28 [GMT]																																																						
Registered By:	Customer/Self Install																																																						
Location Code:	Floor: N/A Edit Room: N/A Egress: N/A																																																						
Battery Level:	90%																																																						
Power Source:	AC																																																						
Gateway Specific Details:																																																							
Stop Discovery Discovery in progress ... Press 'discovery' button on all wireless devices one at a time to register with the gateway. Click on 'Stop Discovery' button when done or gateway will stop discovery automatically, 15 minutes after discovery started.																																																							
<table border="1"> <thead> <tr> <th>Name</th> <th>Device Class</th> <th>Date Registered [GMT]</th> <th>Registered By</th> </tr> </thead> <tbody> <tr><td>Contact A000103</td><td>0102</td><td>2012-07-05 17:25:29</td><td>ah0062</td></tr> <tr><td>Contact A00012C</td><td>0102</td><td>2012-07-05 17:25:29</td><td>ah0062</td></tr> <tr><td>Virtual Device 00</td><td>0102</td><td>2012-05-29 16:37:33</td><td>ah0062</td></tr> <tr><td>Virtual Device 01</td><td>0102</td><td>2012-07-05 17:25:29</td><td>ah0062</td></tr> <tr><td>Motion 4FFFE4</td><td>0103</td><td>2012-07-06 00:41:11</td><td>ah0062</td></tr> <tr><td>Smoke detector 2000043</td><td>0106</td><td>2012-07-05 17:28:05</td><td>ah0062</td></tr> <tr><td>Glass break sens 9000037</td><td>0108</td><td>2012-07-05 20:42:21</td><td>ah0062</td></tr> <tr><td>CO detector B000049</td><td>010E</td><td>2012-07-05 17:31:54</td><td>ah0062</td></tr> <tr><td>Siren 300000F</td><td>0601</td><td>2012-07-05 18:35:46</td><td>ah0062</td></tr> <tr><td>AlarmKeypad 2000003</td><td>0608</td><td>2012-07-06 01:55:28</td><td>ah0062</td></tr> <tr><td>AlarmKeypad 3039</td><td>0608</td><td>2012-07-04 16:49:35</td><td>ah0062</td></tr> <tr><td>Alarm Manager</td><td>0701</td><td>2012-04-17 21:50:33</td><td>ah0062</td></tr> </tbody> </table>				Name	Device Class	Date Registered [GMT]	Registered By	Contact A000103	0102	2012-07-05 17:25:29	ah0062	Contact A00012C	0102	2012-07-05 17:25:29	ah0062	Virtual Device 00	0102	2012-05-29 16:37:33	ah0062	Virtual Device 01	0102	2012-07-05 17:25:29	ah0062	Motion 4FFFE4	0103	2012-07-06 00:41:11	ah0062	Smoke detector 2000043	0106	2012-07-05 17:28:05	ah0062	Glass break sens 9000037	0108	2012-07-05 20:42:21	ah0062	CO detector B000049	010E	2012-07-05 17:31:54	ah0062	Siren 300000F	0601	2012-07-05 18:35:46	ah0062	AlarmKeypad 2000003	0608	2012-07-06 01:55:28	ah0062	AlarmKeypad 3039	0608	2012-07-04 16:49:35	ah0062	Alarm Manager	0701	2012-04-17 21:50:33	ah0062
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Virtual Device 00	0102	2012-05-29 16:37:33	ah0062																																																				
Virtual Device 01	0102	2012-07-05 17:25:29	ah0062																																																				
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Smoke detector 2000043	0106	2012-07-05 17:28:05	ah0062																																																				
Glass break sens 9000037	0108	2012-07-05 20:42:21	ah0062																																																				
CO detector B000049	010E	2012-07-05 17:31:54	ah0062																																																				
Siren 300000F	0601	2012-07-05 18:35:46	ah0062																																																				
AlarmKeypad 2000003	0608	2012-07-06 01:55:28	ah0062																																																				
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Test/Maintenance Mode:	Off																																																						
3G Status:	Up																																																						
Broadband Status:	Up																																																						
3G IP:	10.1.1.72																																																						
Direct Path:	YES - via Source Header IP																																																						
Header IP:	10.1.1.51																																																						
Appliance IP 1:	10.10.13.15																																																						
Appliance IP 2:	-																																																						
Appliance Port:	32000																																																						
Slow poll period:	60																																																						
Fast poll period:	10																																																						
Location:	US_10001																																																						

When the DLC-200C is in the Discovery mode, the DLT can then proceed with installing and discovering devices. As devices are discovered and registered, they will appear on the screen. The DLT can take the DLC-200C out of the Discovery mode by selecting Stop Discovery or the DLC will automatically exit the Discovery mode after fifteen (15) minutes.

If the DLT wants to label or change the label on a specific device, the DLT can select the Devices tab, which will return to the Devices screen as depicted in Figure 19.

Figure 19: DLD—Devices Screen

ACCOUNTS		DEVICES		SUBSCRIPTIONS		LOGOUT		
 Accounts: 51039> Devices								
● ONLINE ● OFFLINE ● UNKNOWN								
Information	Devices	Quotas	Users	Notification Profiles				
Name	Device Class	Subscription ID (CTN)		Last Contact/Event Time (GMT)		Date Registered (GMT)		Delete
● Gateway 2B:E9	Appliance/Gateway	4044997224		2012-07-03 22:42:50		2012-03-09 02:51:28		
● Contact A000103	Contact Sensor					2012-06-25 19:21:49		Delete
● Contact A00012C	Contact Sensor					2012-06-28 16:18:28		Delete
● Virtual Device 00	Contact Sensor					2012-05-29 16:37:33		Delete
● Virtual Device 01	Contact Sensor					2012-05-31 15:32:42		Delete
● AlarmKeypad 2000007	Alarm Keypad					2012-07-03 15:10:57		Delete
● Alarm Manager	Xanboo Alarm Panel					2012-04-17 21:50:33		Delete

The DLT can select the specific device that he wants to re-label as depicted in Figure 20 by selecting the “Edit” button.

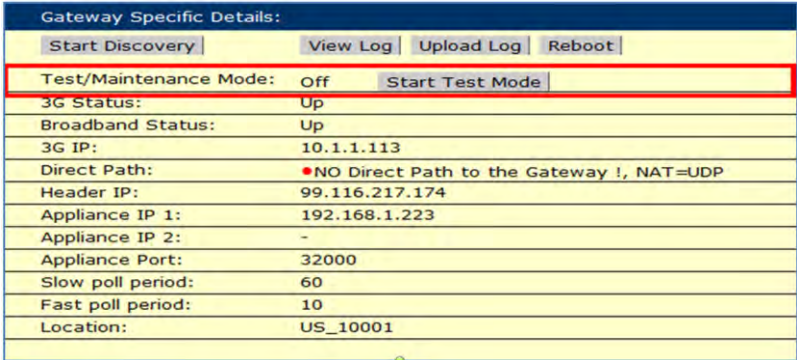
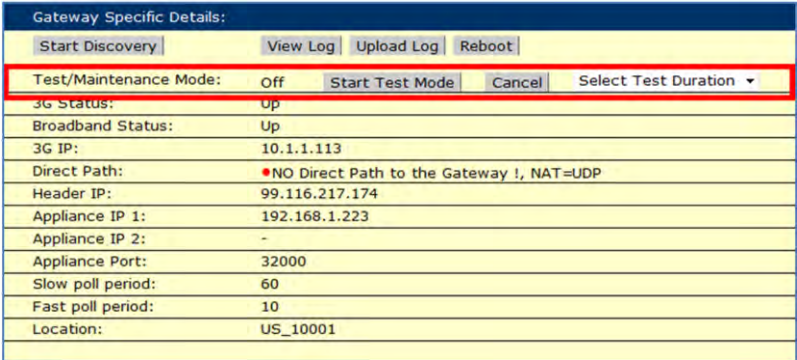
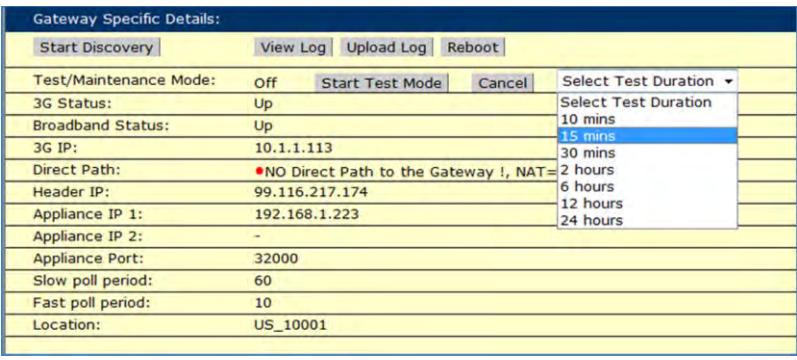
Figure 20: DLD—Specific Device Screen

ACCOUNTS		DEVICES		SUBSCRIPTIONS		LOGOUT	
 Accounts: 51039> Device Details							
● ONLINE ● OFFLINE ● UNKNOWN							
Information Devices Quotas Users Notification Profiles							
Device Information							
Name:		AlarmKeypad 2000007		Edit			
Catalog ID:		0100E0608000004					
Gateway GUID:		C6B95ACBF52E454E802F690635CE488D					
Device GUID:		KP02000007					
Hardware Serial Number:		02000007					
Firmware Version:		2.3.26/3.0.10					
Software Version:							
Last Event:		2012-07-03 22:38:48 [GMT]					
Date Registered:		2012-07-03 15:10:57 [GMT]					
Registered By:		LocalUI					
Location Code:		Floor: N/A		Edit			
		Room: N/A					
		Egress: N/A					
Battery Level:		10%					
Power Source:		AC Powered					
Signal Strength:		Disabled/NA		Enable			

3.3 Test Mode (Performing Test /Maintenance)

The DLT can utilize DLD to place the DLC-200C (Gateway) into Test Mode in order to test the system (see, Section 11: Testing the System). When the DLC-200C is in Test Mode, alarms are sent to the AT&T Digital Life Central Monitoring Centers, but they display as no action required.

Follow these steps to place the device in Test mode:

Action	Web Page
1. From the Gateway Specific Details section, click Start Test Mode .	
The Select Test Duration displays.	
2. Click the dropdown arrow and select the test duration. The Test/Maintenance Mode field is updated.	

3.4 Administer DLC-200C Digital Life Controller Features

The administration of DLC-200C features is accomplished by accessing the “Alarm Manager Information” on the “Devices” tab in DLD, as shown in Figure 21.

Figure 21: DLD— Alarm Manager Information



DL-DIRECT CUSTOMER SUPPORT INTERFACE Login Level: 1 Domain: DL

ACCOUNTS DEVICES SUBSCRIPTIONS LOGOUT

Accounts: 3735 > Device Details

Information Devices Quotas Users Notification Profiles Subscriptions Rules/Programs

Device Information

Name:	Alarm Manager	Edit
Status:	ONLINE	
Catalog ID:	000010701000004	
Gateway GUID:	C7C6CF-0426C74AF88CDE1FE91F07CC8D	
Device GUID:	AM000000004	
Hardware Serial Number:	00000004	
Firmware Version:	DL_01.00.00	
Software Version:		
Last Event:	2012-08-24 22:10:17 (GMT)	
Date Registered:	2012-07-19 23:27:23 (GMT)	
Registered By:	LocalUI	

Alarm Management Information

System Status: Disarmed/ARMED Arm Away Arm Stay

Bypass Device List: None

Security/Duress Code: User Name Pin/Duress Pin

551951655	****/****	Edit Delete
-----------	-----------	-------------

New

Entry Delay: 30 secs Edit

Exit Delay: 60 secs Edit

Abort Delay: 30 secs Edit

Siren Timeout: 4 Min Edit

Cross Zoning Delay: 30 secs Edit

Swinger Shutdown: 6 Edit

AM Flags:

☒ Exit time restart enable	☒ Auto Stay on Unvacated Premise enable
☒ Abort sound on	☒ Cancel sound on
☒ Chirp on entry/exit door/open close	☒ Chirp on non-entry/exit open close
☒ Enable Fire Alarm Verification	☒ Enable Swinger Shutdown

Change

Armed Away Device List:

☒ Contact D0FFFAB1	☒ Contact D0FFFAB2
☐ Contact D0FFFAB3	☐ Contact D0FFFAB4
☐ Contact D0FFFAB5	☐ Contact D0FFFAB6
☐ Contact D0FFFAB7	☐ Contact D0FFFAB8
☒ Contact Sensor 1	☒ Contact Sensor 2
☐ Comm Loss Motion	☒ Motion Detector 1

Change

Armed Stay Device List:

☐ Contact D0FFFAB1	☐ Contact D0FFFAB2
☐ Contact D0FFFAB3	☐ Contact D0FFFAB4
☐ Contact D0FFFAB5	☐ Contact D0FFFAB6
☐ Contact D0FFFAB7	☐ Contact D0FFFAB8
☒ Contact Sensor 1	☐ Contact Sensor 2
☐ Comm Loss Motion	☒ Motion Detector 1

Change

Entry Device List:

☐ Contact D0FFFAB1	☐ Contact D0FFFAB2
☐ Contact D0FFFAB3	☐ Contact D0FFFAB4
☐ Contact D0FFFAB5	☐ Contact D0FFFAB6
☐ Contact D0FFFAB7	☐ Contact D0FFFAB8
☒ Contact Sensor 1	☐ Contact Sensor 2
☐ Comm Loss Motion	☐ Motion Detector 1

Change

Camera Exclusion List:

☐ XanbooCam 90-1C	☐ XanbooCam 66-EB
☐ XanbooCam 67-7B	

Change

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Table 1 contains a mapping of UL required features to DLD administration features. (See *Section 12 CP-01-2010 Supported Features to False Alarm Reduction* for more details).

NOTE: Table 1 mapping reference is SIA CP-01-2010.

Table 1: UL to DLD CP-01-2010 Feature Mapping

UL Required				Digital Life Direct
Paragraph	Feature	Settings	Default	Feature
4.2.2.1	Exit Time	45-120 seconds	60 seconds	Exit Delay NOTE: In accordance with UL 681 Section 19, the total exit time cannot exceed 120 seconds as per UL1023 Section 26.14.
4.2.2.2	Progress Annunciation with rapid annunciation during last ten (10) seconds of Exit Time.	Enabled/Silent Exit Feature Not Supported	Enabled	Pulsating audible sound during Exit Time with rapid annunciation during last ten (10) seconds of Exit Time. NOTE: The ability to DISABLE annunciation is not supported in DLD.
4.2.2.3	Exit Time Restart	Enabled/Disabled	Enabled	Exit time restart enable
4.2.2.5	Auto Stay Arm on Unvacated Premises	Enabled/Disabled	Enabled	Auto Stay on Unvacated

UL Required				Digital Life Direct
Paragraph	Feature	Settings	Default	Feature
				Premises enable
4.2.4.4	Exit Time and Progress Annunciation/Disable - for Remote Arm	Enabled/Silent Exit Feature Not Supported	Enabled	Pulsating audible sound during Exit Time with rapid annunciation during last ten (10) seconds of Exit Time. NOTE: The ability to DISABLE annunciation is not supported in DLD.
4.2.3.1	Entry Delay	30-240 seconds	30 seconds	Entry Delay NOTE: In accordance with UL standards, the aggregate of the Entry Delay time and the Abort Window time shall not exceed one (1) minute.
4.2.5.1	Abort Window – for Non-Fire Zones (Windows)	Enabled/Disabled	Enabled	Set Abort Delay feature to zero (0) setting
4.2.5.1	Abort Window Time – for Non-Fire Zones (Windows)	0-45 seconds	30 seconds	Abort Delay NOTE: In accordance with UL standards, the aggregate of the Entry Delay time and the Abort

UL Required				Digital Life Direct
Paragraph	Feature	Settings	Default	Feature
				Window time shall not exceed one (1) minute.
4.2.5.1.2	Abort Annunciation	Enabled/Disabled	Enabled	Abort Sound On/Off
4.2.5.4	Cancel Window	Enabled/Disabled	Enabled	Alarm Timeout, 3-60 minutes settings, default 5 minutes
4.2.5.4.1	Cancel Annunciation	Enabled/Disabled	Enabled	Cancel Sound On/Off
4.3.1	Cross Zoning	Enabled/Disabled	Disabled	Set per device and disabled by default NOTE: For UL requirements, each zone shall have the capability of protecting the area individually. (Overlapping of protective zones).
4.3.1	Programmable Cross Zoning Time	1-30 seconds	Per walk path in protected premises	System Level Cross Zoning Delay
4.3.2	Swinger Shutdown	1-6 trips	2 trips	Swinger Shutdown
4.3.2	Swinger Shutdown Disable	Enabled/Disabled	Enabled	Enable Swinger Shutdown
4.3.3	Fire Alarm Verification	Enabled/Disabled	Disabled	Enable Fire Alarm Verification

NOTE: In accordance with UL 681 Section 19, the total exit time cannot exceed 120 seconds as per UL1023 Section 26.14.

A CP-01-2010 compliant installation must include the following:

- Digital Life Controller (DLC-200C)
- Keypad (Model SR-KPD02)
- Indoor Siren (Model SW-ATT-SRN)
- One, or more, Smoke Sensor (Model 562NSTT-OEM-ATT01)
- One, or more, of the following burglary alarm initiating devices:
 - Surface Contact Sensor (Model SW-ATT-V2)
 - Recessed Contact Sensor (Model SW-ATT-RDW)
 - Glass Break Sensor (Model SW-ATT-GB)
 - Motion Sensor (SW-ATT-PIR)

3.4.1 Alarm Manager Features

The Alarm Manager administrative features are listed below:

3.4.1.1.1 *Security PIN*

The Security PIN is used to disarm the system or clear an alarm.

1. In order to enter a Security PIN, click the “Edit” button.
2. Enter a four (4) digit Security PIN in the Security field.
3. Click the “Set Code” button.
4. Verify that the desired change(s) has been made.

3.4.1.1.2 *Entry Delay*

Entry Delay allows a user when they are entering their home sufficient time to get to the keypad and enter their Security PIN before the system sounds an alarm.

1. In order to change the Entry Delay time, click the “Edit” button on the Entry Delay line.
2. Use the drop-down menu to select the desired Entry Delay time.

3. Click the “Change” button.
4. Verify that the desired change has been made.

3.4.1.1.3 Exit Delay

Exit Delay delays the activation of the indoor siren, to allow the user sufficient time to exit their home after arming the system without sounding an alarm.

1. In order to change the Exit Delay, click the “Edit” button on the Exit Delay line.
2. Use the drop-down menu to select the desired Exit Delay time.
3. Click the “Change” button.
4. Verify that the desired change has been made.

3.4.1.1.4 Abort Delay

Abort Delay is the time delay between when an alarm has been triggered and when the alarm is actually sent to the AT&T Digital Life Central Monitoring Center. Abort Delay allows the user time to cancel an accidental alarm and help reduce false alarms.

Follow these steps to enable/disable the Abort Delay:

1. In order to change the Abort Delay time, click the “Edit” button on the Abort Delay line.
2. Use the drop-down menu to select the desired Abort Delay time.
3. Click the “Change” button.
4. Verify that the desired change has been made.

3.4.1.1.5 Siren Timeout

Siren Timeout is the length of time, in minutes, that the alarm siren sounds following an alarm. The default is four (4) minutes and the range is four (4) to sixty (60) minutes.

1. In order to change the Siren Timeout time, click the “Edit” button on the Siren Timeout line.
2. Use the drop-down menu to select the desired Siren Timeout time.

3. Click the “Change” button.
4. Verify that the desired change has been made.

3.4.1.1.6 Cross Zoning Delay

Cross Zoning Delay requires that two (2) intrusion sensors are tripped within a preset time, before an alarm is sent. The range is one (1) to thirty (30) seconds.

1. In order to change the Cross Zoning Delay, click the “Edit” button on the Cross Zoning Delay line.
2. Use the drop-down menu to select the desired Cross Zoning Delay time.
3. Click the “Change” button.
4. Verify that the desired change has been made.

3.4.1.1.7 Swinger Shutdown

Swinger Shutdown is a false alarm prevention feature that counts the number of alarms caused by a specific intrusion device. The system will auto-bypass a specific intrusion device based on the swinger shutdown count setting. After a specified number of alarms caused by the same intrusion device within the same arming period, the system will shutdown that intrusion device for the remainder of the arming period. This reduces the number of alarms sent to the AT&T Digital Life Central Monitoring Center. The default count setting is two (2) trips.

1. In order to change the Swinger Shutdown Trips, click the “Edit” button on the Swinger Shutdown line.
2. Use the drop-down menu to select the desired Swinger Shutdown Trips setting.
3. Click the “Change” button.
4. Verify that the desired change has been made.

NOTE: To invoke this feature, you must enable Swinger Shutdown in the AM Flags section. The counts are done per intrusion device.

3.4.2 Alarm Manager Flags

The Alarm Manager (AM) Flags are listed below:

3.4.2.1.1 Exit Time Restart Enable

The Exit Time Restart Enable feature resets the Exit Delay time when a user is arming Away or Stay and leaves and reenters their home. This provides the user more time to leave again.

1. In order to activate Exit Time Restart, in the AM Flags section, select the “Exit time restart enable” box and a checkmark will appear in the box.
2. Click the “Change” button.
3. Verify that the desired change has been made.

3.4.2.1.2 Abort Sound On

The Abort Sound On feature, if enabled, generates one long beep from the Keypad when the user aborts an alarm during the Abort Delay time.

1. In order to activate Abort Sound, in the AM Flags section, click the “Abort sound on” box and a checkmark will appear in the box.
2. Click the “Change” button.
3. Verify that the desired change has been made.

3.4.2.1.3 Chirp on Entry/Exit Door/Open Close

The Chirp on Entry/Exit Door/Open Close feature, if enabled, generates three (3) chirps from the Keypad when a door is opened and two (2) chirps from the Keypad when a door is closed.

1. In order to activate Chirp on Entry/Exit Door/Open Close, in the AM Flags section, click the “Chirp on entry/exit open close” box and a checkmark will appear in the box.
2. Click the “Change” button.
3. Verify that the desired change has been made.

3.4.2.1.4 *Enable Fire Alarm Verification*

The Fire Alarm Verification feature is utilized to reduce the number of false alarms that are reported to the AT&T Digital Life Central Monitoring Center. When the feature is enabled, the DLC-200C must receive two smoke detection messages from a Smoke Sensor before reporting a smoke alarm to the AT&T Digital Life Central Monitoring Center. When the feature is not enabled, if the DLC-200C receives one smoke detection message from a Smoke Sensor, a smoke alarm is reported to the AT&T Digital Life Central Monitoring.

1. In order to Enable Fire Alarm Verification, in the AM Flags section, click the “Enable Fire Alarm Verification” box and a checkmark will appear in the box.
2. Click the “Change” button.
3. Verify that the desired change has been made.

WARNING!

The DLS supports Fire Alarm Verification for use with Smoke Sensors which can be utilized to delay the transmission of a smoke alarm to the AT&T Digital Life Central Monitoring Center. When smoke is detected, the alarm sounds a loud temporal 3 local alarm (three beep sequence then silence repeating) and the built-in transmitter sends a digitally coded wireless Smoke Sensor message to the DLC-200C. The wireless Smoke Sensor message will be repeated every twenty (20) seconds as long as smoke is still present. In order to reduce the likelihood of reporting false smoke alarms, the Fire Alarm Verification feature can be used. The DLC alarm verification period is twenty (20) seconds. If the Fire Alarm Verification feature is enabled, the DLC-200C waits for two Smoke Sensor messages within ninety (90) seconds before a smoke alarm is reported to the AT&T Digital Life Central Monitoring Center.

In addition to the photoelectric sensor, the unit contains an integrated fixed 135° temperature and rate-of-rise heat sensor that will send an alarm signal based on temperature detected.

3.4.2.1.5 *Auto Stay on Unvacated Premises Enable*

When the Auto Stay on Unvacated Premises Enable feature is enabled and a user activates the Armed-AWAY mode using the Keypad (Model SR-KPD02), but does not leave the home, then the system will automatically be armed in the Armed-STAY mode rather than the Armed-AWAY mode.

1. In order to activate Auto Stay on Unvacated Premises, in the AM Flags section, click the “Auto Stay on Unvacated Premises enable” box and a checkmark will appear in the box.
2. Click the “Change” button.
3. Verify that the desired change has been made.

3.4.2.1.6 Cancel Sound On

The Cancel Sound On feature, if enabled, generates two (2) long beeps from the Keypad when the user cancels an alarm.

1. In order to enable Cancel Sound On, in the AM Flags section, click the “Cancel sound on” box and a checkmark will appear in the box.
2. Click the “Change” button.
3. Verify that the desired change has been made.

3.4.2.1.7 Chirp on Non-Entry/Exit Open Close

The Chirp on Non-Entry/Exit Door/Open Close feature, if enabled, generates three (3) chirps from the Keypad when a door is opened and two (2) chirps from the Keypad when a door is closed.

1. In order to enable Chirp on Non-Entry/Exit Open Close in the AM Flags section, click the “Chirp on non-entry/exit open close” box and a checkmark will appear in the box.
2. Click the “Change” button.
3. Verify that the desired change has been made.

3.4.2.1.8 Enable Swinger Shutdown

1. In order to Enable Swinger Shutdown, in the AM Flags section, click the “Enable Swinger Shutdown” box and a checkmark will appear in the box.
2. Click the “Change” button.
3. Verify that the desired change has been made.

3.5 Troubleshooting Wireless Devices

DLD can be utilized by a DLT to assist in troubleshooting issues that may arise during the installation of a wireless device or devices, such as door/window sensors and

keypads. Within DLD the DLT can enable the monitoring of received wireless signal strength in the DLC-200C for a selected wireless device or devices.

The possible values are presented from highest signal strength to lowest signal strength:

- Best
- Good
- Acceptable
- Low
- Weak

These values apply to both 433 MHz and 915 MHz devices. In general, if a DLT observes a Signal Strength of “Low” or “Weak”, the DLT will install a signal booster.

As depicted in Figure 22, Figure 23 and Figure 24 under the Devices tab the DLT will select the Device Information screen for the specific wireless device that they want to troubleshoot and enable Signal Strength monitoring on the DLC-200C. The DLT can repeat the steps for other devices. The operating procedure is different for 433 MHz (one-way) devices and 915 MHz (two-way) devices.

For 433 MHz (one-way) devices, after Signal Strength measurement has been started, the DLT must activate the device for a minimum of fifteen (15) times in order to obtain an accurate signal strength value. After a signal strength value has been determined and displayed, the DLT should click the Disable button to stop measuring signal strength or the DLC-200C will automatically stop signal strength measurement after fifteen (15) minutes.

For 915 MHz (two-way) devices, after Signal Strength measurement has been started, two-way messages will automatically be exchanged between the 915 MHz device and the DLC-200C and then a signal strength value is determined and displayed. This process should be completed in less than sixty (60) seconds. After a signal strength value has been determined and displayed, the DLT should click the Disable button to stop measuring signal strength or the DLC-200C will automatically stop signal strength measurement after fifteen (15) minutes.

Figure 22: Enabling Signal Strength Monitoring

Information		Devices	Quotas	Users	Notification Profiles	Subscriptions	Rules/Programs
Device Information							
Name:	Comm Loss Motion			Edit			
Status:	● ONLINE						
Catalog ID:	0100E0103000004						
Gateway GUID:	C7C6CF0426C74AF88CDE1FE91F07CCBD						
Device GUID:	SM04000634						
Hardware Serial Number:	04000634						
Firmware Version:							
Software Version:							
Last Event:	2012-08-09 23:26:10 [GMT]						
Date Registered:	2012-08-09 23:18:34 [GMT]						
Registered By:	sw0627						
Location Code:	Floor: N/A			Edit			
	Room: N/A						
	Egress: N/A						
Cross Zoning:	Disabled			Enable			
Battery Level:	90%						
Signal Strength:	Disabled/NA			Enable			
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Figure 23: Signal Strength Monitoring Alert

Information		Devices	Quotas	Users	Notification Profiles	Subscriptions	Rules/Programs
Device Information							
Name:	Comm Loss Motion			Edit			
Status:	● ONLINE						
Catalog ID:	0100E0103000004						
Gateway GUID:	C7C6CF0426C74AF88CDE1FE91F07CCBD						
Device GUID:	SM04000634						
Hardware Serial Number:	04000634						
Firmware Version:							
Software Version:							
Last Event:	2012-08-09 23:26:10 [GMT]						
Date Registered:	2012-08-09 23:18:34 [GMT]						
Registered By:	sw0627						
Location Code:	Floor: N/A			Edit			
	Room: N/A						
	Egress: N/A						
Cross Zoning:	Disabled			Enable			
Battery Level:	90%						
Signal Strength:	Disabled/NA			Enable			
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Message from webpage

 This will start polling and refreshing Signal Strength value for this device.

[OK](#)

Figure 24: Signal Strength Monitoring

Information		Devices	Quotas	Users	Notification Profiles	Subscriptions	Rules/Programs
Device Information							
Name:	Comm Loss Motion			Edit			
Status:	● ONLINE						
Catalog ID:	0100E0103000004						
Gateway GUID:	C7C6CF0426C74AF88CDE1FE91F07CCBD						
Device GUID:	SM04000634						
Hardware Serial Number:	04000634						
Firmware Version:							
Software Version:							
Last Event:	2012-08-09 23:26:10 [GMT]						
Date Registered:	2012-08-09 23:18:34 [GMT]						
Registered By:	sw0627						
Location Code:	Floor: N/A			Edit			
	Room: N/A						
	Egress: N/A						
Cross Zoning:	Disabled			Enable			
Battery Level:	90%						
Signal Strength:	Best			Disable			
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If the wireless signal that is being monitored by the DLC-200C is being repeated, such as by a Signal Booster (433), then the Signal Strength indicator will include a notation that the signal is being repeated as is depicted in Figure 25.

Figure 25: Signal Strength Monitoring for a Repeated Signal

Information		Devices	Quotas	Users	Notification Profiles	Subscriptions	Rules/Programs
Device Information							
Name:	Comm Loss Motion			Edit			
Status:	● ONLINE						
Catalog ID:	0100E0103000004						
Gateway GUID:	C7C6CF0426C74AF88CDE1FE91F07CCBD						
Device GUID:	SM04000634						
Hardware Serial Number:	04000634						
Firmware Version:							
Software Version:							
Last Event:	2012-08-09 23:26:10 [GMT]						
Date Registered:	2012-08-09 23:18:34 [GMT]						
Registered By:	sw0627						
Location Code:	Floor: N/A			Edit			
	Room: N/A						
	Egress: N/A						
Cross Zoning:	Disabled			Enable			
Battery Level:	90%						
Signal Strength:	Best(Repeated)			Disable			
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It is recommended that the DLT disable Signal Strength Monitoring, after wireless troubleshooting has been completed.

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4 Digital Life Controller (DLC-200C) Cabinet and Internal Components

The Digital Life Controller (DLC-200C) is wall mounted in a closet, utility room or basement similar to a traditional security system and be adjacent to an AC power outlet. It is a two-piece assembly consisting of a wall mounting plate and a cabinet. The two-piece assembly is made of plastic and features battery backup compartment door at the bottom of the wall mounting plate.

Figure 26: DLC-200C Base



Figure 27: DLC-200C Wall Mounting Plate



During installation the DLT installs the wall mounting plate on a wall and then slides the cabinet onto the wall mounting plate and secures the cabinet to the wall mounting plate via a captured screw

When the DLC-200C is installed in a customer's home, the following radio modules will already have been installed in the cabinet:

- 433 MHz Transceiver Module – is equipped with a proprietary one-way 433 MHz radio receiver, which is used to communicate with one-way 433 MHz devices in the home.
- 915 MHz Transceiver Module - is equipped with a proprietary two-way 915MHz transceiver which is used to communicate with two-way 915 MHz devices in the home.
- Wi-Fi Module – is an 802.11/b/g/n compliant access point and can be used in conjunction with Wi-Fi installed Indoor and Outdoor Cameras.
- Z-Wave Module – is a Z-Wave 908 MHz transceiver that operates in conjunction with software operating on the DLC-200C to enable the DLC-200C to function as a Z-Wave controller.

The DLC-200C Wall Mounting Plate may be equipped with an AT&T Cellular Data Modem. Alternatively an AT&T Cellular Data Modem may be installed remotely and connected to the DLC-200C cabinet via HomePlug AV (HPAV) technology operating over the in-home electrical wiring system.

At the time of installation the DLT will install the twenty-four (24) hour battery backup in the battery backup compartment at the bottom of the wall mounting plate. The high-level installation sequence is depicted in Figure 28 and Figure 29:

Figure 28: DLC-200C Cabinet Installation (Steps 1–5)

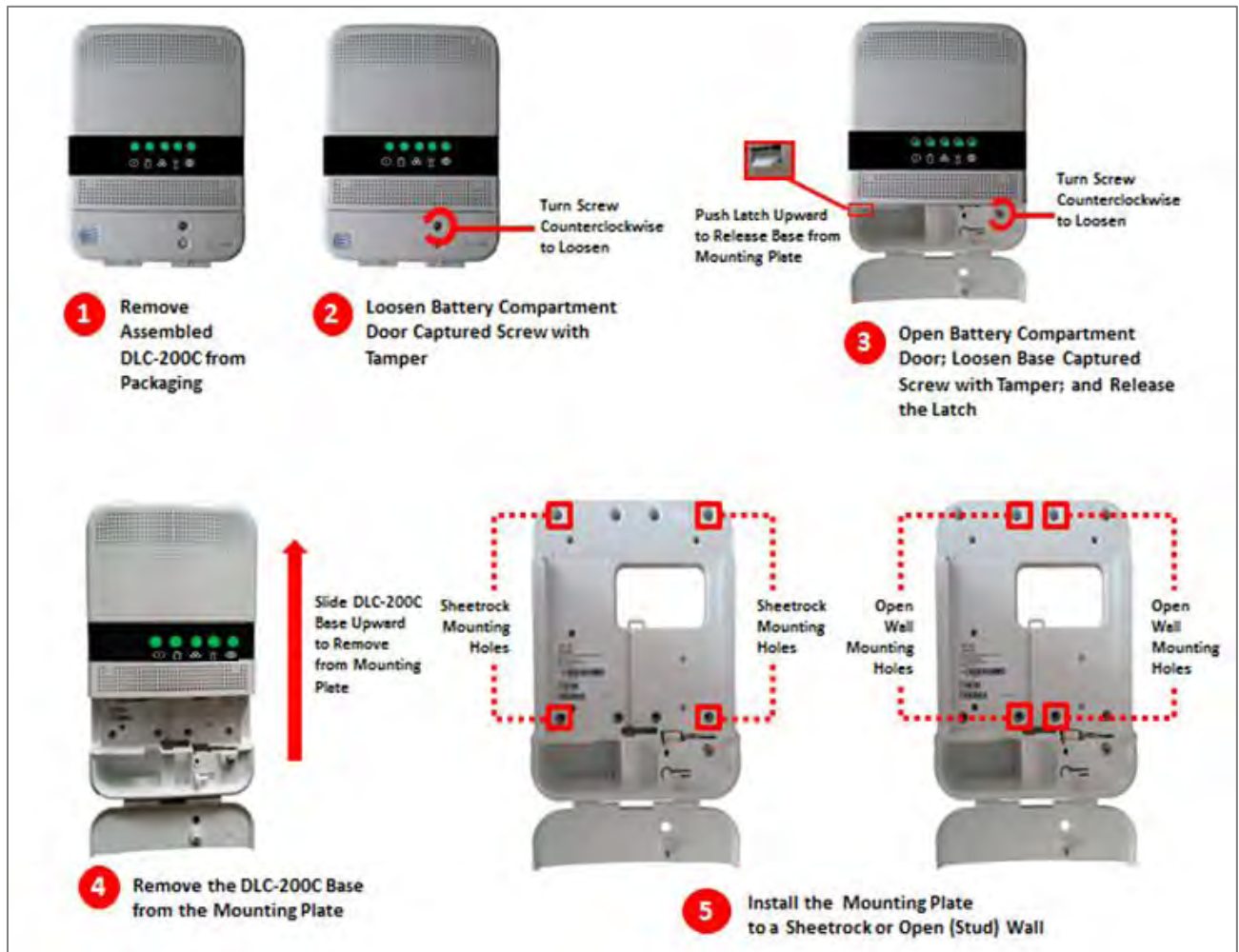
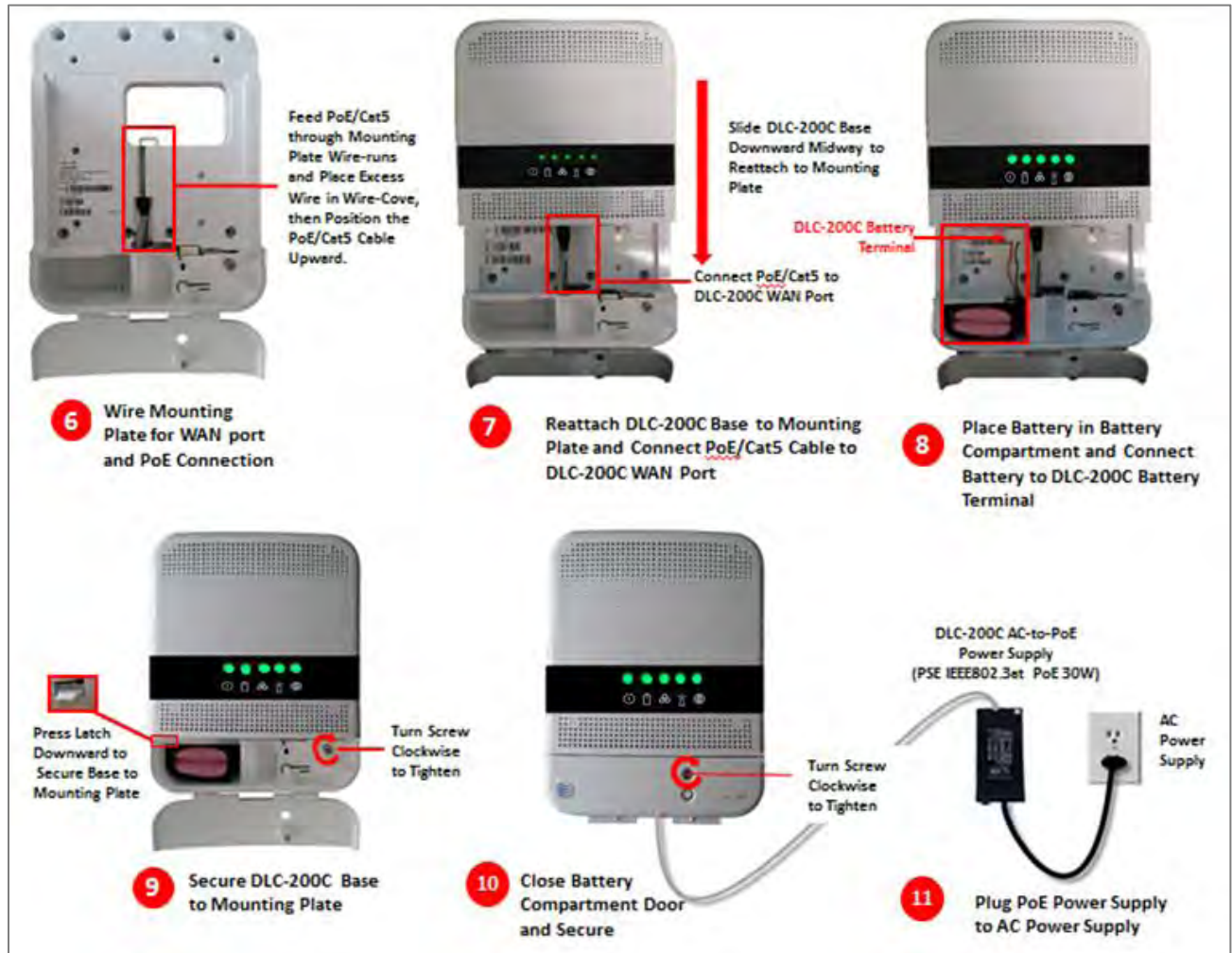


Figure 29: DLC-200C Cabinet Installation (Steps 6-11)



5 System Installation

During the installation process, initially the DLT determines where to install the DLC-200C. When the DLC-200C Wall Mounting Plate is equipped with an AT&T Cellular Data Modem, then the DLT will measure AT&T Cellular Data Service signal strength at various locations in the home using an application installed on their wireless tablet device. The DLT will take into consideration AT&T Cellular Data Service strength measurements when determining where to install the cabinet. An AC power outlet must be in the proximity to where the DLC-200C is installed.

NOTE: DO NOT connect the DLC-200C AC to PoE Power Supply to an AC power outlet that is controlled by a switch or on a GFCI circuit.

In most installations, the DLC-200C will not be installed in proximity to the customer's Broadband Home Router (BHR). HomePlug AV (HPAV) technology is utilized to establish a data connection between an Ethernet port on the DLC-200C AC to PoE Power Supply and an Ethernet port on the BHR. HPAV technology can also be utilized to connect IP cameras to the Home Network and the BHR.

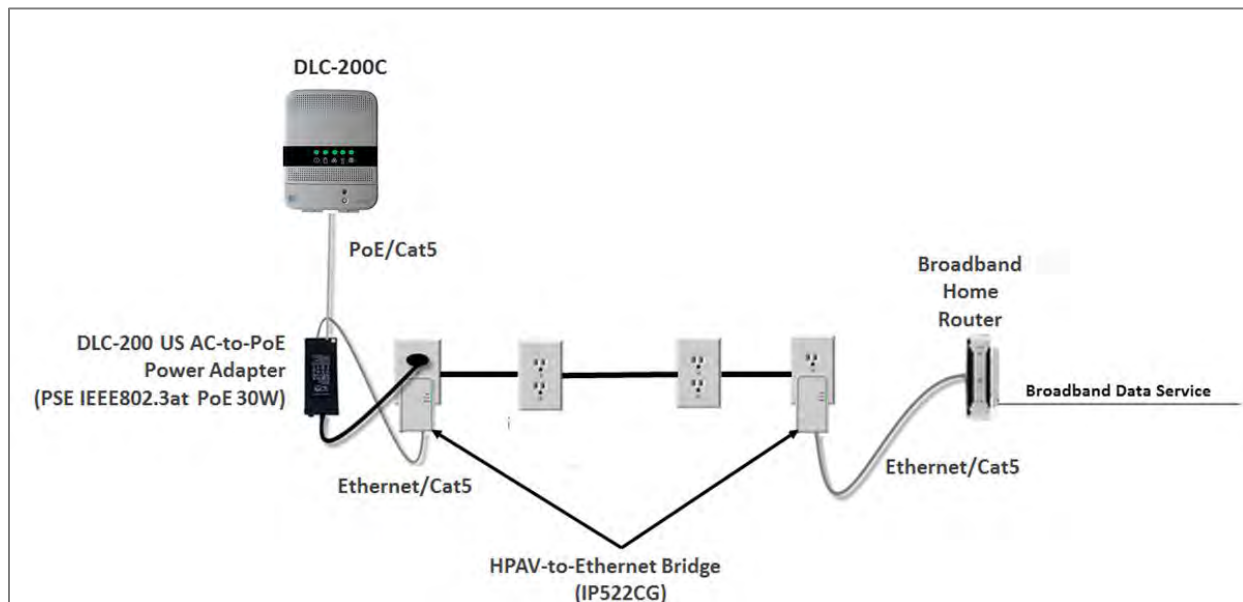
After establishing the location for the installation of the DLC-200C, the DLT will prepare the HPAV devices for installation. The preparation starts by the secure pairing of the HPAV devices with a random security (encryption) key (128 bits). Every Digital Life installation will have a unique random security key. Each HPAV unit is shipped from the factory with a random encryption key, so that security pairing must be done among HPAV units, so that the HPAV devices can communicate.

When the DLC-200C is installed in proximity to the customer's BHR, then the DLT will establish a Ethernet/Cat5 connection between an Ethernet port on the DLC-200C AC-to-PoE Power Supply and an Ethernet port on the BHR.

5.1 DLC-200C Installation Using HPAV

Figure 30 contains a depiction of a typical DLC-200C installation wherein HPAV is utilized to establish a data connection between the DLC-200C AC to PoE Power Supply and the BHR, as shown in Figure 30.

Figure 30: Typical DLC-200C Installation Using HPAV



5.2 HPAV Installation Kits

There are two (2) kits that can be included in the HPAV installation:

- IP522CG (For use with DLC-200C or Broadband Home Router)
 - (1) - IP522CG unit
 - (1) - 1.5 meters (4.92 feet) Cat5 cable
- IP532CG (For use with IP Cameras)
 - (1) - IP532CG unit
 - (1) - 5 meters (16.4 feet) Cat5 cable
 - (1) - 5 meters (16.4 feet) DC 12V power cable

NOTE: During a typical installation process, a IP522CG unit will be paired with one IP522CG unit and possibly one, or more, IP532CG units.

5.2.1 IP522CG Features and Operation (HPAV to Ethernet Bridge)

The IP522CG has three (3) green LEDs (Power, PLC Link and Ethernet) located on the front of the unit and two (2) buttons (Security and Reset) located on the side of the unit. An Ethernet port is located on the bottom of the unit.

Figure 31: IP522CG – Front, Side and Bottom Panels



The functionality for each LED is described below:

- **Power LED**
 - SOLID – Device is receiving electrical power
 - BLINKING – Device is restarting or setting up security
 - OFF – Device is not receiving electrical power
- **PLC Link LED**
 - SOLID - HPAV connection is established with other devices on the same HPAV network that share the same security key
 - BLINKING - Data traffic exists over the HPAV network
 - OFF - Device has not found any compatible HPAV network using the same security key
- **Ethernet LED**
 - SOLID – Ethernet port is linked, but no data traffic exists

- BLINKING – Ethernet port is linked and data traffic exists over the Ethernet port
- OFF – No Ethernet connection exists

The functionality of each button is described below:

- Security Button
 - Used for security pairing between devices
- Reset Button
 - Not used in Digital Life

WARNING!

The Reset Button restores the unit to Factory Default settings and **is not** used during Digital Life installations.

5.2.2 IP532CG Features and Operation

The IP532CG has three (3) green LEDs (Power, PLC Link and Ethernet) located on the front panel and two (2) buttons (Security and Reset) located on the side of the panel. The Ethernet port and DC 12V Output connectors located on the bottom of the unit. The IP532CG is designed for installation with Indoor Cameras. During installation Cat5/Ethernet and DC power connections are established with an Indoor Camera.

Figure 32: IP532CG – Front, Side, and Bottom Panels



The functionality of each front panel LED is described as follows:

- Power LED
 - SOLID – Device is receiving electrical power
 - BLINKING – Device is restarting or setting up security
 - OFF – Device is not receiving electrical power
- PLC Link LED
 - SOLID – HPAV connection is established with other devices on the same HPAV network that share the same security key (128 bit encryption key)
 - BLINKING – Indicates data traffic over the HPAV network
 - OFF – Device has not found any other compatible HPAV network using the same security key
- Ethernet LED
 - SOLID – Ethernet port is linked, but there is no data traffic
 - BLINKING – Ethernet port is linked and there is data traffic over the Ethernet port
 - OFF – There is no Ethernet connection

The functionality of each side panel button is described below:

- Security Button
 - Used for security pairing between devices
- Reset Button
 - Not used in Digital Life

WARNING!

The Reset Button restores the unit to Factory Default settings and is **not** used during Digital Life installations.