

FlexPay[™] IV (with Omnia V06.00) Programming and Service Manual Insite360[™] Forecourt with Applause[®] Media System

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47 CFR § 2.1077 Compliance Information

Unique Identifier: OMNIA M16183

Responsible Party – U.S. Contact Information Gilbarco Veeder-Root 7300 West Friendly Avenu Greensboro, North Carolina, USA 27410-6200 1-336-547-5000

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Approval

E165027

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G-SITE and Passport Systems

California Air Resources Board (CARB):

UL File#	Products listed with UL	Executive Order #	Product
MH1941	All Gilbarco pumps and dispensers that bear	G-70-52-AM	Balance Vapor Recovery
	the UL listing mark.	G-70-150-AE	VaporVac
MH8467	Transac System 1000 and PAM 1000		-
F105106	Dell DHM Minitower		

National Conference of Weights and Measures (NCWM) - Certificate of Conformance (CoC):

Gilbarco pumps and dispensers are evaluated by NCWM under the National Type Evaluation Program (NTEP). NCWM has issued the following CoC:

CoC#	Product	Model #	CoC#	Product	Model #
02-019	Encore	Nxx	02-036	Legacy	Jxxx
02-020	Eclipse	Exx		G-SITE Printer (Epson)	PA0307
02-025	Meter - C Series	PA024NC10		G-SITE Distribution Box	PA0306
02-025	Meter - C Series	PA024TC10	02-037	G-SITE Keyboard	PA0304
02-029	CRIND	_	02-037	G-SITE Mini Tower	PA0301
	TS-1000 Console	_		G-SITE Monitor	PA0303
	TS-1000 Controller	PA0241		G-SITE Printer (Citizen)	PA0308
02-030	Distribution Box	PA0242	02-038	C+ Meter	T19976
	Meter - EC Series	PA024EC10	02-039	Passport	PA0324
	VaporVac Kits	CV	02-040	Ecometer	T20453
			05-001	Titan	KXXY Series

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1 – Introduction

Purpose

This manual provides instructions for the following:

- Set or modify the IP configuration for FlexPay[™] IV CRIND[®]
- Configure the Omnia board
- Set up the Applause® Media System connectivity
- Register with Insite360[™] Forecourt for remote management

This manual also includes common troubleshooting and verification steps to ensure network connectivity of dispensers.

Overview

The Omnia Printed Circuit Board (PCB) inside the dispenser serves the following purposes:

- Creating a Local Area Network (LAN) within the dispenser, so that the Internet Protocol (IP) addresses of the Ethernet[®] connected devices inside the dispenser are no longer exposed on the site Wide Area Network (WAN).
- Functioning as a router and firewall, only exposing the A and B side CRIND devices to the forecourt.
- The configuration of the forecourt IP address, media, and Insite360 is performed on a single web page.
- Running two-wire proxy applications that allow connection from the Point of Sale (POS) to the CRIND and the pump.
- Allows the pump and CRIND serial interfaces to run through the Omnia board instead of the UPM. The UPM and Omnia manage the pump and CRIND through TCP.
- FlexPay IV GSoMs are removed and the media client runs on the Omnia.
- SSoM is removed and the Omnia manages the remote connection to the Insite360 server.

This manual provides service information and guidance on the following:

- Networking configuration of FlexPay IV CRIND terminals equipped with Omnia
- Software configuration of Omnia (network settings/Cloud/media)
- Registration of the dispensers to the Insite360 Forecourt

Note: Site network rules MUST be updated to allow access to AWS IoT servers (Customer IT personnel or supporting ASC technician for site) prior to any Omnia software upgrades and AWS IoT registration attempt. This may have to be done way in advance as Network approval can take time. Contact the customer IT department to ensure that this has been completed.

Insite360 Forecourt Escalation for Technicians

For issues that occur while installing and starting up Insite360 Forecourt, you can escalate as follows:

Issues	Contact Information
All third-party devices	Consult the third-party device support or Site IT Specialist.
For network-related query regarding any existing backroom configurations and/or the site-specific network IP scheme (such as Default Gateway/DNS IPs, Internet Service Provider (ISP) router location and rules/firewall setup, etc.)	Consult the Site IT Specialist or Site Management to fill out the Network Survey Form in "Appendix A: Site Network Survey" on page A-1.
For Insite360 Forecourt registration issues and feature testing related issues	Contact the Insite360 Forecourt Help Desk at 877-503-4971.
For any Gilbarco [®] Insite360 Forecourt hardware in the dispenser or backroom issues	Call Service Station Equipment (SSE) Technical Assistance Center (TAC) at 1-800-743-7501.
For any Insite360 Forecourt site configuration issues during start-up (beyond Registration and Feature Testing)	Call Service Station Equipment (SSE) TAC at 1-800-743-7501.

Forecourt Networking Scheme

The main difference introduced by the Omnia in the site networking scheme is that the payment terminal (FlexPay IV) IP addresses are no longer directly exposed on the site WAN.

Only the Omnia external IP addresses are visible within the site WAN. Figure 1-1 on page 1-3 shows how the networking scheme is modified due to installation of Omnia.

Note: The Omnia internal CRIND IPs required for the Dispenser Connection Module (DCM)2.x CRINDs have changed from 172.16.100.1/3 to 172.20.100.1/3. This IP is set automatically on the Universal Payment Modules (UPMs) when Omnia is selected in the CRIND configuration.

Forecourt Networking Scheme

Introduction

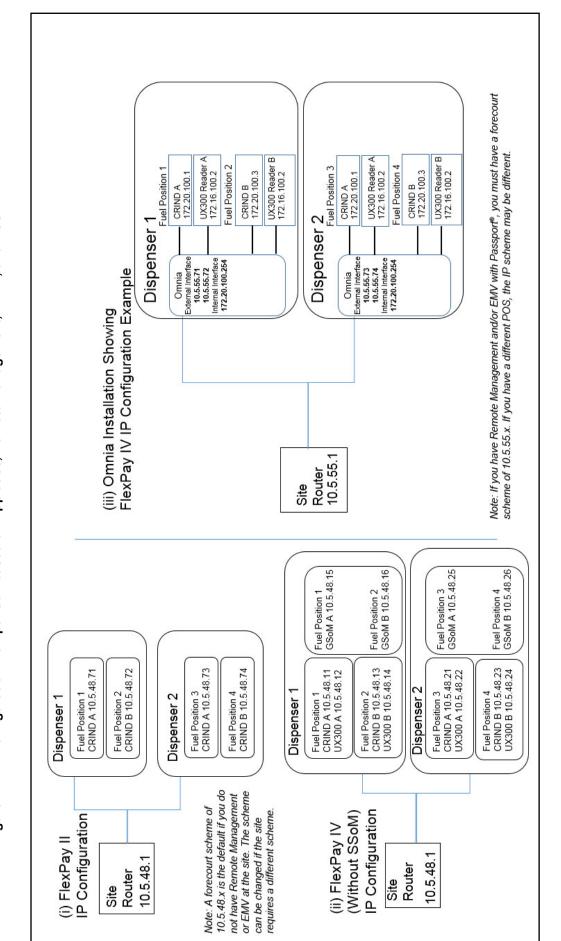


Figure 1-1: IP Configuration Comparison based on Applause, Remote Management, EMV®, and POS

The network configuration after Omnia installation, as shown in the example in Figure 1-1 on page 1-3, has the following characteristics:

- The Omnia performs the function of a router inside the dispenser.
- The Omnia provides two external IP addresses to the site router in the back room. These are the external addresses of side A and side B of the CRIND.
- The new CRIND internal IP addresses configured in each dispenser are the same scheme (172.20.100.1 for side A and 172.20.100.3 for side B) in all dispensers for the site as the dispenser networks are isolated from each other by the Omnia.
- Once the Omnia parameter is selected in CRIND programming, the CRIND IP will automatically be set (hardcoded) in the UPMs, and the UX300 Card Readers will always use the default 172.16.100.2.

The Omnia has a VLAN and dedicated device ports, which allow this new simplified IP configuration.

Physical Connectivity

The high-speed Ethernet connectivity between the forecourt and the backroom can be set up in the following three ways:

- FlexPay Connect v2 [Backroom Communication Module (BRCM2) or BRCM2.1 and DCM2.x, DCM3]
- Direct Ethernet [Category 5 (CAT5) or CAT6 or equivalent]
- FlexPay Connect v1 [BRCM and DCM, Global Long-Range Ethernet (GLRE)]

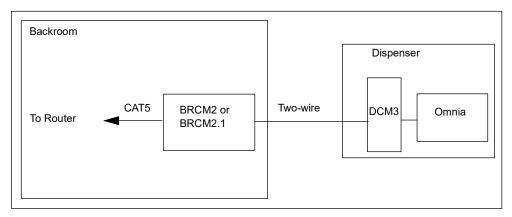
Using FlexPay Connect v2

FlexPay Connect v2 is used on sites that had no previous Ethernet connectivity to the dispensers.

FlexPay Connect v2 is usually installed by upgrading the existing Distribution Box (D-Box) in the backroom and installing an Omnia Assembly in every dispenser.

There is a 16-dispenser limit on FlexPay Connect v2. If the site has more than 16 dispensers, FlexPay Connect or direct Ethernet must be used.

Figure 1-2: Using FlexPay Connect v2 - Backroom Hardware



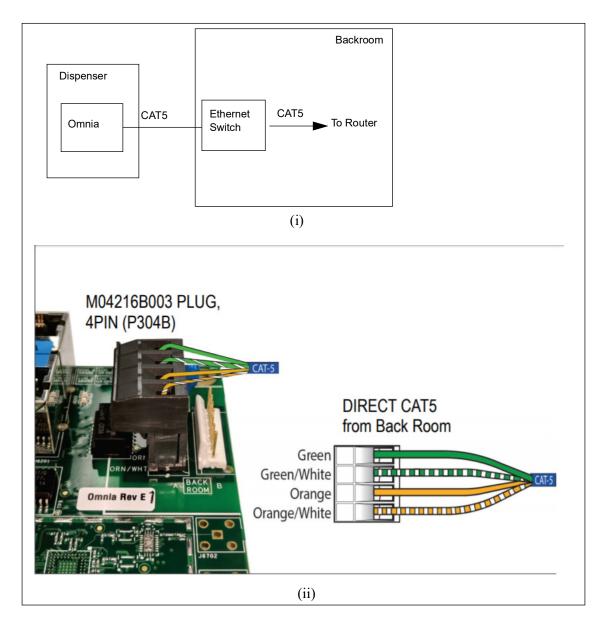
Using Direct Ethernet (CAT5/CAT6 or Equivalent) Connections

Sites where dispensers are connected directly to the backroom by Ethernet cables will require a switch to connect cables from all the dispensers.

Note: Follow specific requirements when running direct CAT5 cable (for example, maximum run of 280 feet). For more information on requirements for CAT5 runs, refer to MDE-4246 Dispenser Network Connectivity Kit for Monochrome Encore 500, Encore S and Eclipse® Installation Instructions.

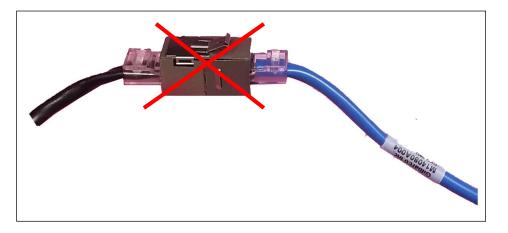
When using a direct CAT5 connection from the backroom for high speed, ensure that the high speed connection is disconnected from the DCM3. Do not connect P304 to the DCM3.





Note: Do not use CAT5 couplers in this connection; their use can result in loss of the high speed connection.

Figure 1-4: Do Not Use Couplers



Notes: 1) The couplers can be used for lab use. Do not use the couplers in a field installation.
2) Use the kit M18405K001 if a RJ-45 forecourt connection is desired. The RJ-45 adapter can be mounted directly on the Omnia and does not degrade the Ethernet signal like the commercial adapters.

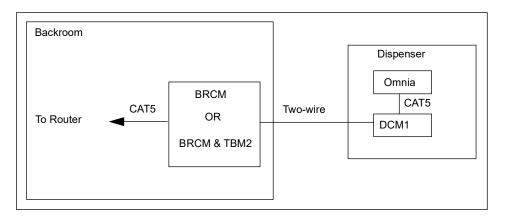
Using Pre-existing FlexPay Connect v1

Sites equipped with FlexPay Connect v1 do not require any hardware upgrade in the backroom. These sites can continue to use the existing BRCM.

Replace the Ethernet cable with the M14080A004 Cable provided in the kit to connect to the pre-existing DCM.

Note: DCM3 is not compatible with a BRCM (GLRE).





Common Types of Site Networking Schemes

Several details of the networking configuration (namely **External Interface IPs, Default Gateway IP, etc.**) depend on the site type and its networking scheme. For this reason, identifying the characteristics of the network at every site is a requirement for a correct installation and configuration of the devices.

Sites Using Customer-defined Networking Schemes

In some sites, the customer dictates the IP addresses to be used for the devices on the forecourt (Omnia) and in the backroom (BRCM2 or BRCM2.1, Applause Media System Site Server, and so on). This is typically the case of customers who run a sophisticated network. In these cases, it is required to comply with the customer's networking schemes.

When the networking scheme is predefined by the customer, the customer site IT department should do the following:

- Complete the Configuration Worksheet in "Appendix A: Site Network Survey" on page A-1.
- Provide sufficient number of IP addresses to cover all the fueling positions, the BRCM2 or BRCM2.1, and the Applause Media System Site Server (if present).
 - Note: The recommended CRIND External IP addresses is 10.5.55.XX, which is as per the default IP scheme.
- Locate the router to be used to connect the BRCM2 or BRCM2.1.
- Grant access to the Internet and Domain Name System (DNS) servers.

Sites Using Default Networking Scheme

These sites use a pre-determined IP range (10.5.55.XX) to connect the dispensers. They can be further divided into two categories:

- Applause Media System is not installed at the site
 - This will require additional backroom hardware, including BRCM2 or BRCM2.1, router, CAT5 cables, etc.
- Applause Media System is installed at the site

These sites may be configured for dual Network Interface Card (NIC) on the Applause Site Server. This will require the use of an additional router to reconfigure the Applause Site Server to a single NIC setup.

Required Tools, Equipment, Parts, and Software

The following tools and equipment are necessary to accomplish all steps of the software configuration (Omnia, CRIND, and pump):

- Laptop computer running Windows 7, Windows 8, or Windows 10 operating systems and Chrome[™] web browser
- CAT5 or CAT6 cable to connect the laptop to the Omnia Board
- RS-232 Serial cable to upgrade the pump software
- Pre-installation checklist (refer to "Installation Checklists" on page 3-1)

Recommended High-Level Installation Process Scenarios

The following sections outline high-level processes for different installation scenarios.

New FlexPay IV CRIND High-Level Installation

The following installation steps are in the recommended order and are applicable for a new FlexPay IV CRIND installation with Omnia:

- 1 Utilize pre-installation, installation, and post-installation checklists in "Installation Checklists" on page 3-1.
- 2 Install the Applause Media Server, if required. Refer to *MDE-4699 Applause Media System Installation, Service, and Parts Manual.*
- **3** Install the dispenser hardware in one dispenser. For more information on the Retrofit Kit or Upgrade Kit Installation Instructions, see "Related Documents" on page 1-10.
- 4 Configure Omnia through Omnia Configurator Web User Interface [(UI) including Insite360 registration]. For more information, see "Verifying the UPM and Software Versions" on page 5-1.
- 5 Test and verify operation of one dispenser including Applause Media System, before configuring additional dispensers.
 Note: Do not proceed with the entire forecourt installation if a problem is detected with the first dispenser.
- 6 Repeat steps 3 and 4 to proceed with the next dispenser until the site is completed. Note: You may add additional dispensers based on the number of dispensers the customer will allow to be down at a time.

Retrofit Installation Process from FlexPay II

The following installation steps are in the recommended order and are applicable for a retrofit FlexPay IV CRIND with Omnia installation in an environment where FlexPay II was installed:

- 1 Pre-installation checklist. For more information, see "Installation Checklists" on page 3-1.
- 2 Install FlexPay IV door; install Omnia in one dispenser. For more information on the Retrofit Kit or Upgrade Kit Installation Instructions, see "Related Documents" on page 1-10.
- **3** Install Applause Media Server, if required. Refer to, *MDE-4699 Applause Media System Installation, Service, and Parts Manual.*
- **4** Update UPM software to 42/52.11.XX or later, if not already at that software level, and configure.

- **5** Configure Omnia from the Omnia Web page (includes Insite360 registration). For more information, see "Verifying the UPM and Software Versions" on page 5-1.
- 6 Test and verify operation of one dispenser including Applause Media System, before configuring additional dispensers.
 Note: Do not proceed with the entire forecourt installation if a problem is detected with the first dispenser.
- 7 Repeat for each dispenser until the site is completed.

Retrofit Installation Process from FlexPay IV

The following installation steps are in the recommended order and are applicable for an installation of Omnia in an environment in which FlexPay IV is already installed.

- **1** Pre-installation checklist.
- 2 Install Omnia in one dispenser. For more information, refer to "Related Documents" on page 1-10.
- **3** Install Applause Media Server, if required.
- **4** Update UPM software to 42/52.11.XX or later, if not already at that software level, and configure CRIND. Refer to FlexPay IV CRIND Configuration.
- 5 Configure Omnia from the Omnia Web UI (includes Insite360 registration).
- 6 Test and verify operation of one dispenser including Applause Media System, before configuring additional dispensers.
 Note: Do not proceed with the entire forecourt installation if a problem is detected with the first dispenser.
- 7 Repeat for each dispenser until the site is completed.

Related Documents

Document Number	Title	GOLD ^s Library
MDE-3860	Programming Quick Reference Guide	Encore and EclipseEncore and Eclipse Installers
MDE-4246	Dispenser Network Connectivity Kit for Monochrome Encore 500, Encore S and Eclipse Installation Instructions	 Applause Media System Encore and Eclipse SMARTConnect[™]
MDE-4699	Applause Media System Installation, Service, and Parts Manual	 Applause Media System Encore and Eclipse SMARTConnect
MDE-4771	Encore S Enhanced FlexPay EMV CRIND Start-up/Service Manual	Encore and Eclipse FlexPay Connect
MDE-4917	FlexPay Connect D-Box Installation Manual	FlexPay Connect
MDE-5221	FlexPay IV CRIND Start-up Manual	FlexPay IV
MDE-5265	BRCM2.x Installation and Upgrade Instructions	 The Advantage[®] Series and Legacy Encore and Eclipse FlexPay Connect
MDE-5314	Insite360 Encore Remote Management Installation, Start-up and Service Manual	FlexPay EPP and SCRFlexPay IV
MDE-5359	FlexPay IV CRIND (with Omnia) Retrofit Kit Installation Instructions for Encore 500 S	FlexPay IV, Omnia
MDE-5360	FlexPay IV CRIND (with Omnia) Retrofit Kit Installation Instructions for Encore S E-CIM	FlexPay IV, Omnia
MDE-5362	FlexPay IV CRIND (with Omnia) Retrofit Kit Installation Instructions for Encore 300/500	FlexPay IV, Omnia
MDE-5382	Secure Zone Router (Acumera) Installation Instructions	Passport®
MDE-5402	FlexPay IV Applause Media Kit (M16183K001) Installation Instructions	FlexPay IV, Omnia
MDE-5686	Configuring Invenco Outdoor Payment Terminals for Gilbarco Dispensers	Invenco
MDE-5690	FlexPay 6 (Invenco OPT) Start-Up and Service Manual	FlexPay 6, Invenco

Abbreviations and Acronyms

ASC Authorized Service Contractor BOM Bill of Material BRCM Backroom Communication Module CAT5/CAT6 Category 5/Category 6 CPR Cardiopulmonary Resuscitation CRIND Card Reader in Dispenser D-Box Distribution Box DCM Dispenser Connection Module DEF Diesel Exhaust Fluid (automotive) DNS Domain Name System EMV Europay®, MasterCard®, and Visa® FAT File Allocation Table FCC Federal Communications Commission FP Fueling Position GOLD Gilbarco Online Documentation GLRE Global Long-Range Ethernet ICS Invenco Cloud Services IP Internet Protocol ISP Internet Service Provider LAN Local Area Network LED Light Emitting Diode MAC Multiple Access Control MOC Major Oil Company NEC National Fire Protection Association NIC Network Time Protocol OSHA Occupational Safety and Health Admin	Term	Description
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CPRCardiopulmonary ResuscitationCRINDCard Reader in DispenserD-BoxDistribution BoxDCMDispenser Connection ModuleDEFDiesel Exhaust Fluid (automotive)DNSDomain Name SystemEMVEuropay®, MasterCard®, and Visa®FATFile Allocation TableFCCFederal Communications CommissionFPFueling PositionGOLDGilbarco Online DocumentationGLREGlobal Long-Range EthernetICSInvenco Cloud ServicesIPInternet ProtocolISPInternet Service ProviderLANLocal Area NetworkLEDLight Emitting DiodeMACMultiple Access ControlMOCMajor Oil CompanyNECNational Fire Protection AssociationNICNetwork Interface CardNTPNetwork Interface CardNTPNetwork Time ProtocolOSHAOccupational Safety and Health AdministrationPCBPrinted Circuit BoardPCNPump Control NodePIPPeripheral Interface PCBPOSPoint of SalePPNProduct Part NumberSSEService Station EquipmentSTPSubmerged Turbine PumpsTACTechnical Assistance CenterUDPUser InterfaceUPMUniversal Payment ModuleUSBUniversal Serial BusVLANVirtual LAN	BRCM	Backroom Communication Module
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UI User Interface UPM Universal Payment Module USB Universal Serial Bus VLAN Virtual LAN	TAC	Technical Assistance Center
UPM Universal Payment Module USB Universal Serial Bus VLAN Virtual LAN	UDP	User Datagram Protocol
USB Universal Serial Bus VLAN Virtual LAN	UI	User Interface
VLAN Virtual LAN	UPM	Universal Payment Module
	USB	Universal Serial Bus
WAN Wide Area Network	VLAN	Virtual LAN
	WAN	Wide Area Network

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2 – Important Safety Information

Notes: 1) Save this Important Safety Information section in a readily accessible location.

2) Although DEF is non-flammable, Diesel is flammable. Therefore, for DEF cabinets that are attached to Diesel dispensers, follow all the notes in this section that pertain to flammable fuels.

This section introduces the hazards and safety precautions associated with installing, inspecting, maintaining, or servicing this product. Before performing any task on this product, read this safety information and the applicable sections in this manual, where additional hazards and safety precautions for your task will be found. Fire, explosion, electrical shock, or pressure release could occur and cause death or serious injury, if these safe service procedures are not followed.

Preliminary Precautions

You are working in a potentially dangerous environment of flammable fuels, vapors, and high voltage or pressures. Only trained or authorized individuals knowledgeable in the related procedures should install, inspect, maintain, or service this equipment.

Emergency Total Electrical Shut-Off

The first and most important information you must know is how to stop all fuel flow to the pump/dispenser and island. Locate the switch or circuit breakers that shut off all power to all fueling equipment, dispensing devices, and Submerged Turbine Pumps (STPs).



The EMERGENCY STOP, ALL STOP, and PUMP STOP buttons at the cashier's station WILL NOT shut off electrical power to the pump/dispenser. This means that even if you activate these stops, fuel may continue to flow uncontrolled.

You must use the TOTAL ELECTRICAL SHUT-OFF in the case of an emergency and not the console's ALL STOP and PUMP STOP or similar keys.

Total Electrical Shut-Off Before Access

Any procedure that requires access to electrical components or the electronics of the dispenser requires total electrical shut off of that unit. Understand the function and location of this switch or circuit breaker before inspecting, installing, maintaining, or servicing Gilbarco equipment.

Evacuating, Barricading, and Shutting Off

Any procedure that requires access to the pump/dispenser or STPs requires the following actions:



- An evacuation of all unauthorized persons and vehicles from the work area
- Use of safety tape, cones, or barricades at the affected unit(s)
- A total electrical shut-off of the affected unit(s)

Read the Manual

Read, understand, and follow this manual and any other labels or related materials supplied with this equipment. If you do not understand a procedure, call the Gilbarco Technical Assistance Center (TAC) at 1-800-743-7501. It is imperative to your safety and the safety of others to understand the procedures before beginning work.

Follow the Regulations

Applicable information is available in National Fire Protection Association (NFPA) 30A; *Code for Motor Fuel Dispensing Facilities and Repair Garages*, NFPA 70; *National Electrical Code (NEC)*, Occupational Safety and Health Administration (OSHA) regulations and federal, state, and local codes. All these regulations must be followed. Failure to install, inspect, maintain, or service this equipment in accordance with these codes, regulations, and standards may lead to legal citations with penalties or affect the safe use and operation of the equipment. **Replacement Parts**

Use only genuine Gilbarco replacement parts and retrofit kits on your pump/dispenser. Using parts other than genuine Gilbarco replacement parts could create a safety hazard and violate local regulations.

Federal Communications Commission (FCC) Warning

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference at his own expense. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment.

Safety Symbols and Warning Words

This section provides important information about warning symbols and boxes.

Alert Symbol



This safety alert symbol is used in this manual and on warning labels to alert you to a precaution which must be followed to prevent potential personal safety hazards. Obey safety directives that follow this symbol to avoid possible injury or death.

Signal Words

These signal words used in this manual and on warning labels tell you the seriousness of particular safety hazards. The precautions below must be followed to prevent death, injury, or damage to the equipment:



DANGER: Alerts you to a hazard or unsafe practice which will result in death or serious injury.

WARNING: Alerts you to a hazard or unsafe practice that could result in death or serious injury.



CAUTION with Alert symbol: Designates a hazard or unsafe practice which may result in minor injury. **CAUTION** without Alert symbol: Designates a hazard or unsafe practice which may result in property or equipment damage.

Working With Fuels and Electrical Energy Prevent Explosions and Fires

Fuels and their vapors will explode or burn, if ignited. Spilled or leaking fuels cause vapors. Even filling customer tanks will cause potentially dangerous vapors in the vicinity of the dispenser or island.

DEF is non-flammable. Therefore, explosion and fire safety warnings do not apply to DEF fluid lines.

No Open Fire



Open flames from matches, lighters, welding torches or other sources can ignite fuels and their vapors.

No Sparks - No Smoking



Sparks from starting vehicles, starting or using power tools, burning cigarettes, cigars or pipes can also ignite fuels and their vapors. Static electricity, including an electrostatic charge on your body, can cause a spark sufficient to ignite fuel vapors. Every time you get out of a vehicle, touch the metal of your vehicle, to discharge any electrostatic charge before you approach the dispenser island.

Working Alone

It is highly recommended that someone who is capable of rendering first aid be present during servicing. Familiarize yourself with Cardiopulmonary Resuscitation (CPR) methods, if you work with or around high voltages. This information is available from the American Red Cross. Always advise the station personnel about where you will be working, and caution them not to activate power while you are working on the equipment. Use the OSHA Lockout/Tagout procedures. If you are not familiar with this requirement, refer to this information in the service manual and OSHA documentation.

Working With Electricity Safely

Ensure that you use safe and established practices in working with electrical devices. Poorly wired devices may cause a fire, explosion or electrical shock. Ensure that grounding connections are properly made. Take care that sealing devices and compounds are in place. Ensure that you do not pinch wires when replacing covers. Follow OSHA Lockout/Tagout requirements. Station employees and service contractors need to understand and comply with this program completely to ensure safety while the equipment is down.

Hazardous Materials

Some materials present inside electronic enclosures may present a health hazard if not handled correctly. Ensure that you clean hands after handling equipment. Do not place any equipment in the mouth.

In the event of inclement weather, including snow, ice, or flooding that makes driving conditions dangerous, please avoid servicing units. Always use available door stops to secure upper doors against unwanted/unexpected movement, especially during high winds. If necessary, reschedule service to avoid damage to the equipment. Weather may change unexpectedly; be aware of local weather conditions. During service, if conditions develop making service unsafe, close the unit(s) and proceed to a safe location.

The pump/dispenser contains a chemical known to the State of California to cause cancer.

The pump/dispenser contains a chemical known to the State of California to cause birth defects or other reproductive harm.



Gilbarco Veeder-Root encourages the recycling of our products. Some products contain electronics, batteries, or other materials that may require special management practices depending on your location.

Please refer to your local, state, or country regulations for these requirements.

In an Emergency Inform Emergency Personnel

Compile the following information and inform emergency personnel:

- Location of accident (for example, address, front/back of building, and so on)
- Nature of accident (for example, possible heart attack, run over by car, burns, and so on)
- Age of victim (for example, baby, teenager, middle-age, elderly)
- Whether or not victim has received first aid (for example, stopped bleeding by pressure, and so on)
- Whether or not a victim has vomited (for example, if swallowed or inhaled something, and so on)

\Lambda WARNING



Gasoline/DEF ingested may cause unconsciousness and burns to internal organs. Do not induce vomiting. Keep airway open.

Oxygen may be needed at scene. Seek medical advice immediately.

WARNING

DEF generates ammonia gas at higher temperatures. When opening enclosed panels, allow the unit to air out to avoid breathing vapors. If respiratory difficulties develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention.



Gasoline inhaled may cause unconsciousness and burns to lips, mouth and lungs.

- Keep airway open.
- Seek medical advice immediately.



Gasoline/DEF spilled in eyes may cause burns to eye tissue.

Irrigate eyes with water for approximately 15 minutes.Seek medical advice immediately.

WARNING



Gasoline/DEF spilled on skin may cause burns. Wash area thoroughly with clear water. Seek medical advice immediately.

\Lambda WARNING

DEF is mildly corrosive. Avoid contact with eyes, skin, and clothing. Ensure that eyewash stations and safety showers are close to the work location. Seek medical advice/recommended treatment if DEF spills into eyes.

IMPORTANT: Oxygen may be needed at scene if gasoline has been ingested or inhaled. Seek medical advice immediately. **Lockout/Tagout**

Lockout/Tagout covers servicing and maintenance of machines and equipment in which the unexpected energization or start-up of the machine(s) or equipment or release of stored energy could cause injury to employees or personnel. Lockout/Tagout applies to all mechanical, hydraulic, chemical, or other energy, but does not cover electrical hazards. Subpart S of 29 CFR Part 1910 - Electrical Hazards, 29 CFR Part 1910.333 contains specific Lockout/Tagout provision for electrical hazards.

Hazards and Actions



WARNING

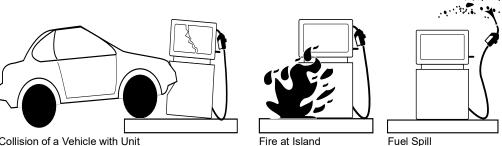
Spilled fuels, accidents involving pumps/dispensers, or uncontrolled fuel flow create a serious hazard.

Fire or explosion may result, causing serious injury or death.

Follow established emergency procedures.

DEF is non-flammable. However it can create a slip hazard. Clean up spills promptly.

The following actions are recommended regarding these hazards:



Collision of a Vehicle with Unit

Fire at Island

- Do not go near a fuel spill or allow anyone else in the area. Use station EMERGENCY CUTOFF immediately. Turn off all system circuit breakers to the island(s).
- · Do not use console E-STOP, ALL STOP, and PUMP STOP to shut off power. These keys do not
- remove AC power and do not always stop product flow. · Take precautions to avoid igniting fuel. Do not allow starting of vehicles in the area. Do not allow
- open flames, smoking or power tools in the area.
- · Do not expose yourself to hazardous conditions such as fire, spilled fuel or exposed wiring.
- Call emergency numbers.

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3 – Installation Checklists

Contact Information	
Insite360 Help Desk	1-800-997-7725
Gilbarco Technical Assistance Center	1-800-743-7501



The Pre-Installation checklist must be completed before installation begins.

Contact site IT department and submit the form to get networking data.	The form is located in "Appendix A: Site Network Survey" on page A-1.
Check software versions of Omnia, CRIND, and pump software and determine if updates are necessary. Update is required prior to installation. It is mandatory to use FlexPay IV CRIND software 42.11.XX or 52.11.XX or later.	Note: Always use the latest software version approved by the customer. Minimum Required Versions: • Gilbarco Legacy Gateway (Omnia V04.04) • AWS Gateway (Omnia V05.06) • FlexPay IV CRIND 42.11.XX or 52.11.XX or later • Pump 4.1.22 or later • Insite360 Auto-Registration (Omnia V05.08)
Verify that the site survey is accurate and dispensers meet minimum requirements (software version for POS, Applause Media System, dispensers, etc.)	Verify that site survey action items have been completed.
Verify parts in kit against the Bill Of Material (BOM).	Confirm that all parts are included in the kit.
Determine the current POS to forecourt communication hardware configuration. Note: This will help determine if any additional hardware is required to support remote management, such as Ethernet switches or BRCM2.	 Standard Gilbarco two-wire protocol (D-Box) FlexPay Connect v1/v2 [BRCM/DCM/Two-wire Board Module 2 (TBM2)]
If the site has Applause Media System, determine how it will communicate to the forecourt. This will determine the Insite360 Cloud configuration. Note: This will help determine if any additional hardware is required to support remote management.	Three options: • FlexPay Connect v1 • FlexPay Connect v2 (BRCM2) • Direct Ethernet (CAT5)
Ensure that you have a static strap available.	

	Ensure that you have identified all relevant network parameters.	Backroom Router IP address (Default Gateway)	
		Primary DNS IP address	
		·	
		External IP addresses for the dispensers:	
		Subnet mask	
		·	
	Ensure that all requirements are in place for Insite360 auto-registration (beginning with Omnia V05.08).	 If the site has an Insite360 contract, program the Omnia and register the site manually. If the site does not have a contract with Insite360, program the Omnia as you would normally, and then do the following: Set Side A Fueling Position and Side B Fueling Position correctly in General Configuration Settings. Note: If these values are incorrect or a duplicate of another dispenser at the site, the unit will fail to automatically register or could show incorrectly on the Insite360 dashboard. In Insite 360 Configuration > Settings, program the GVR ID. Program the DNS IP properly so that when the customer wants to connect to Insite360 in future, the device will autoregister without a tech visit. Ensure that all AWS-IoT URLs are whitelisted. 	
	The AWS IoT URLs must be set up prior to software upgrades and any attempt to register with Insite360 through AWS. Ensure that network rules are done by the customer IT department or MNSP provider. Registration will fail if the network rules are not set up.	 The following URLs are used for Insite360 Forecourt through AWS IoT Gateway: aatnf1k6u65sn-ats.iot.us-east-1.amazonaws.com cfvuav3n0omj9.credentials.iot.us-east-1.amazonaws.com device-download-prod.s3.amazonaws.com s3.amazonaws.com/prod.i360.device.fileupload/* omnia-checkin.prod.insite360.gilbarco.com (Port 443 only Notes: All these endpoints need access to three TCP ports: 443, 8443, 8883. Access to UDP is not necessary. Omnia must be connected to NTP Servers to sync time. Some customer networks do not allow wildcards (*) in the URL white-listing. You can also identify the URL host name without the wildcard path. Consult the network IT team. 	
	If a custom NTP server is not used, access must be allowed to	 5 The URL omnia-checkin.prod.insite360.com, port 443, is used for the auto-registration feature. NTP Servers destinations: 	
	the following NTP Server's for AWS IoT to enable devices (Omnia, SSoM) to synchronize clock timing.	0.debian.pool.ntp.org 1.debian.pool.ntp.org 2.debian.pool.ntp.org 3.debian.pool.ntp.org Destination Port = 123 Protocol = UDP	
	GSTV/ICS Media	 https://icsapiprod.applause.gilbarco.com (Port 443) or *applause.gilbarco.com 	

Day of Installation Checklist		
	Follow standard safety procedures during installation activities.	
	Lockout/tagout dispenser before beginning the installation.	
	Review installation process using the block diagram.	
	Before working on the dispenser, ensure that the Applause Media System is running on all fueling positions.	
	Ensure that all dispensers are functioning properly before beginning the installation.	

Post-installation Checklist

Verify that the date and time of dispenser and CRIND are accurate.	
If the registration process fails, call the Remote Management Help Desk at 1-800-997-7725.	Refer to "Related Documents" on page 1-10. For more information, refer to "Troubleshooting" on page 7-1.
For all dispensers, complete the Insite360 Cloud feature test, if present.	Call the Remote Management Help Desk to perform feature testing.
Verify the dispenser operation including Applause Media System, if present.	Run a transaction and confirm that media is being displayed on the CRIND.

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4 – Configuring FlexPay IV

Note: The following instructions are applicable only while performing a FlexPay IV upgrade.

Pre-requisites for Installing Omnia in FlexPay IV

Before starting up and configuring Omnia, ensure that the following pre-requisites are met:

- UPM Software Version 42/52.11.XX or later is installed.
- PCN Software Version is 4.1.22 or later.
- Omnia parameter is set in the Device Configuration menu.

Note: Always update devices to latest customer approved software.

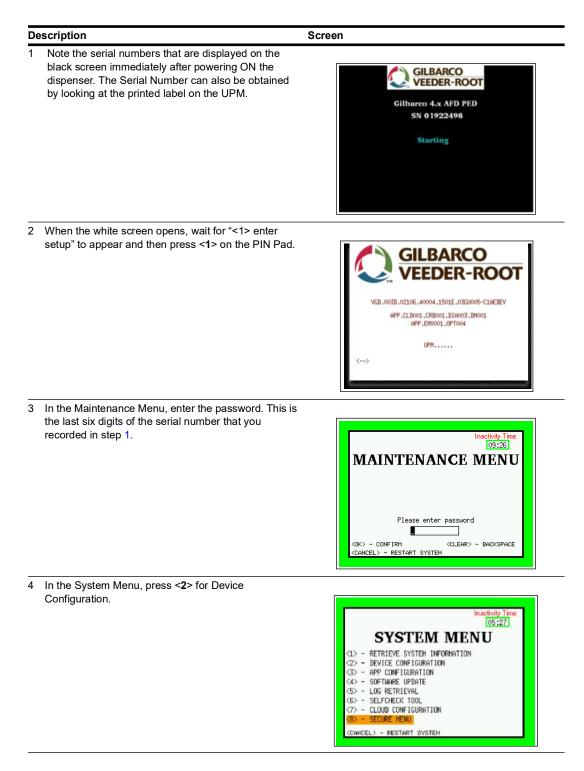
If the UPM has not been updated or configured, proceed as follows:

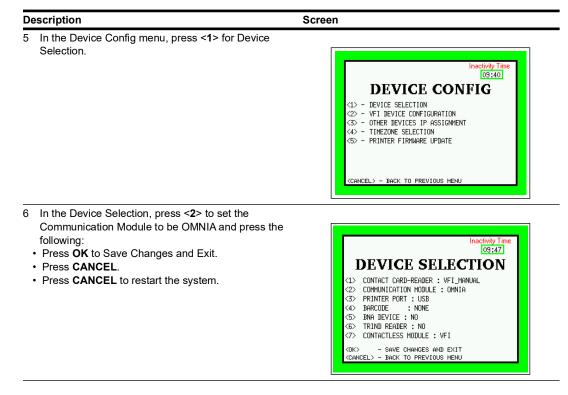
- **1** Upgrade the UPM to the required software version using the FlexPay IV CRIND (M7) Maintenance tool.
- **2** After the SECURE DEVICE UPDATE is complete and the UPM reboots, press **1** to enter the Setup Menu.
- **3** Change the connection module of FlexPay IV CRIND (M7) dispenser to Omnia and reboot the dispenser.
- 4 After the Omnia parameter is configured, there will be a Card Reader error on the display. The error resolves itself after the Omnia hardware is installed and the CRIND Card Reader (UX300) IP is set back to the default setting.
- **5** When the Omnia parameter is set in the UPM, the internal UPM IP address is set automatically: Side A 172.20.100.1, Side B 172.20.100.3.

Notes: 1) When running Omnia with a Commander POS, the CRIND Baud Rate must be set to 9600 Baud in the CRIND settings in the UPM, and at the Commander POS.
2) All other POS types can remain default 4800 Baud.

Configuring UPM Settings

If FlexPay IV was already installed, configure the Omnia settings in the CRIND UPMs. For a newly installed FlexPay IV CRIND with Omnia, the device configuration is already set. To configure Omnia settings in the CRIND UPMs, proceed as follows:





The internal scheme becomes 172.20.100.1/3 (A/B). The jumper on the Peripheral Interface PCB (PIP) board determines A or B side.

Notes: 1) When running Omnia with a Commander POS, the CRIND Baud Rate must be set to 9600 Baud in the CRIND settings in the UPM, and at the Commander POS. 2) All other POS types can remain default 4800 Baud.

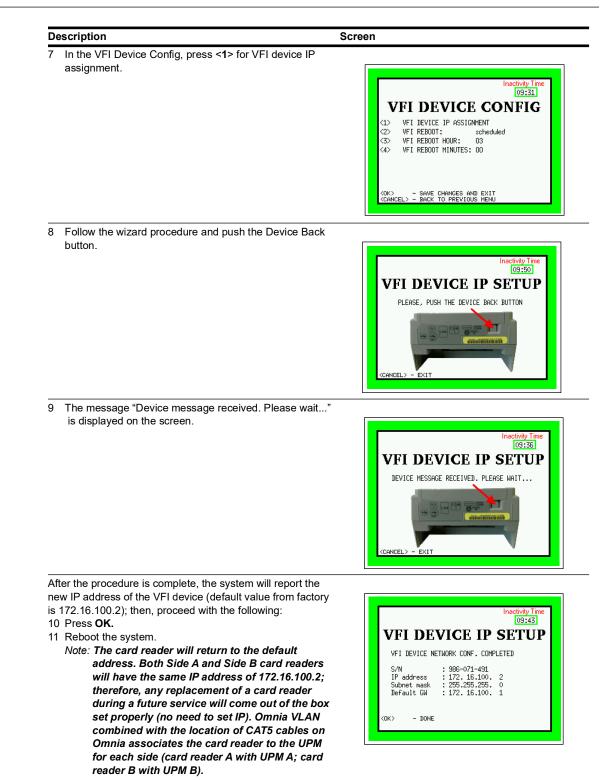
Install hardware. For more information, refer to MDE-5402 FlexPay IV Applause Media Kit with Omnia (M16183K001) Installation Instructions.

Note: If a FlexPay IV CRIND is already installed in the dispenser, restore the default IP address of the card reader after Omnia is installed.

To configure final UPM settings in the Maintenance Menu, proceed as follows:

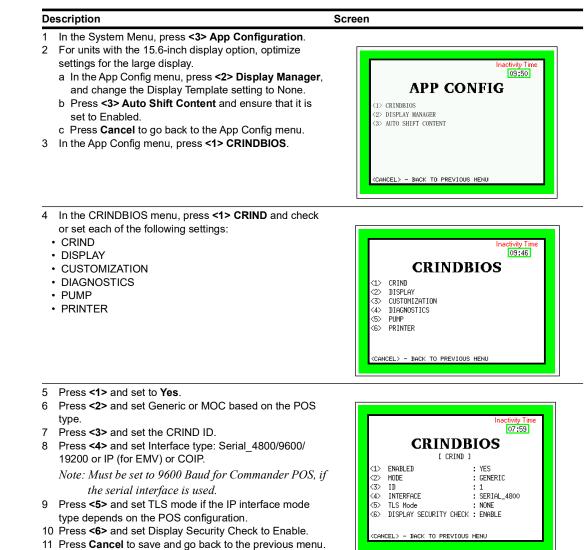
Description	Screen
1 Press <8> to open the Secure Men	L. Inactivity Time [05:27] SYSTEM MENU (1) - RETRIEVE SYSTEM INFORMATION (2) - DEVICE CONFIGURATION (2) - RETRIEVE SYSTEM (3) - RPP CONFIGURATION (3) - RPP CONFIGURATION (4) - SOFTAMRE UPDATE (5) - LOG RETRIEVAL (5) - SELFCHECK TOOL (7) - CLOUD CONFIGURATION (6) - SECURE NENU (CANCEL) - RESTART SYSTEM

Description	Screen
2 Press <1> to open the Date and Time.	
	Available Usages Session Time Inactivity Time 9/10 14:51 00:51 SECURE MENU <1> DATE AND TIME <2> - NETWORK MENU <3> - SYSTEM ACTIVATION <4> - PROTOCOL MENU <5> - PRCKAGES DELETION <6> - SRED ACTIVATION <cancel> - SECURE MENU LOGOUT</cancel>
\sim Set data and time and process CK to return to t	
3 Set date and time and press OK > to return to t Secure Menu.	Available Usages Session Time Inactivity Time 8/10 DATE AND TIME UTC time: 2019-03-04 16:13:27 Timezone: Etc/UTC (1) Local Time[YYYY-MM-DD]: 2019-03-04 16:13:27 (2) NTP Server : enabled (3) NTP Server : enabled (3) NTP Server P : 172. 20.100.254 (0K) - SAVE CHANCES AND GO BACK
If PIP3 was replaced, an activation is required. I	Press
	Available Usages Session Time Inactivity Time 9/10 14:19 00:45 SYSTEM ACTIVATION Display Security Module : sensor enabled UPM Security Module : sensor enabled CR Security Module : sensor enabled CR Security Module : sensor enabled CA Security Module : sensor enabled COX - SAVE CHANCES AND EXIT : sensor enabled CANCEL> - UNDO ALL CHANCES AND EXIT
5 In the System Menu, press <2> for Device Conf	iguration.
	Concel > - RESTART SYSTEM
6 In the Device Config, press < 2 > for VFI Device Configuration.	Inactivity Time [03:40] DEVICE CONFIG (1) - DEVICE SELECTION (2) - VFI DEVICE CONFIGURATION (3) - OTHER DEVICES IT ASSIGNMENT (4) - TIMEZONE SELECTION (5) - PRINTER FIRMWARE UPDATE

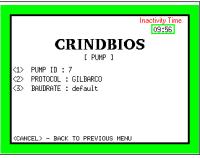


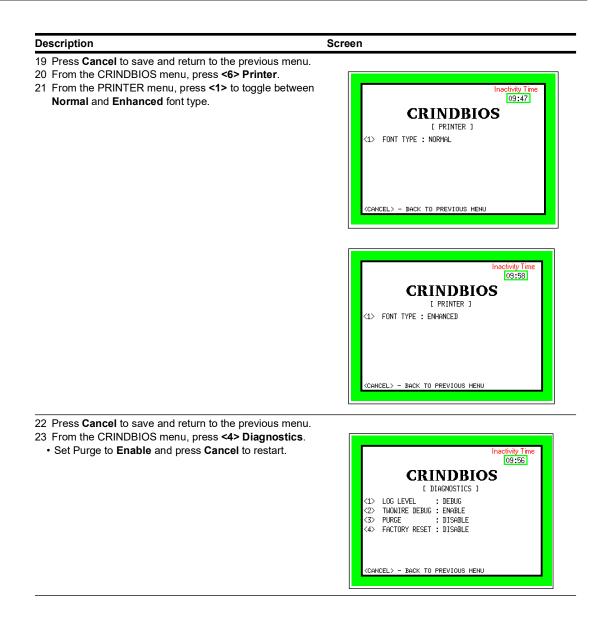
Configuring CRINDBIOS for Software Version 42/52.11.XX or Later

To configure CRINDBIOS settings, proceed as follows:



- Description Screen 12 From the CRINDBIOS menu, press <2> DISPLAY. 13 From the DISPLAY menu, check and adjust the following settings. a. Verify the Personality and Predictor settings. Inactivity tim 09:56 b. For Encore 900 or 15.6-inch display, press <3> AUTO **CRINDBIOS** SHIFT CONTENT: ENABLE. c. Press <CANCEL> to return to the previous menu. CRIND DISPLAY CUSTOMIZATION DIAGNOSTICS PUMP PRINTER 14 From the CRINDBIOS menu, press <3> Customization and check or set the parameters. 15 Press <3> Comm Timeout to Reset and set the timeout to 0 minutes. This setting is mandatory with an Omnia <CANCEL> - BACK TO PREVIOUS MENU PCB. This setting will disable the auto reset on communication timeout events. Disabling this feature is very important for sites with Omnia, where the POS is turned off overnight. 16 Set all other parameters based on the POS type: AUTO GRAPHICS ENABLE: When enabled, the CRIND Inactivity time
 09:56 will enable the GRAPHICS two-wire command by default. CRINDBIOS · SEND CLEAR KEY ON WARMSTART: When enabled, [DISPLAY] the CRIND will automatically send a CLEAR key press PERSONALITY PREDICTOR AUTO SHIFT CONTENT ⊲> ⊲> ⊲> on warm start or poll resume (for Radiant site). • ONLINE MESSAGE TIMEOUT (minutes): If disabled, the CRIND only sends a startup message to the POS <CANCEL> - BACK TO PREVIOUS MENU after the CRIND is powered up. When Enabled, the POS stops polling (or goes offline with TCP), the CRIND will send a startup message after the communication resumes.THIS IS CRUCIAL TO ENABLE AND REDUCE THE SERVICE CALLS. · PRINTJOB TIMEOUT: This is the timeout associated with a printjob. Not all POSs send a cut/end of receipt 09:47 message. This is the time (in seconds) that the CRIND CRINDBIOS waits before printing the receipt. E CUSTOMIZATION 1 DISABLE LOCAL PROMPT TIMEOUT: When enabled, the CRIND E700 COMPATIBILITY (15 AUXILIARY KEYPAD COMM TIMEOUT TO RESET DISABLE (2)will start a timer when an automatic local prompt 'One <3> (4) AUTO GRAPHICS ENABLE DISABLE Moment Please' is displayed while waiting for the POS SEND CLEAR KEY ON WARMSTART ONLINE MESSAGE TIMEOUT to respond. : DISABLE <6> - GO TO PAGE 2 EL> - BACK TO PREVIOUS MENU GRAPHICS FOR '<' and '>': When enabled, the CRIND will also include the characters '<' and '>' for softkey arrow (touchpoints on the LTD) substitution like the '[' and ']' characters. · CARD REMOVE TIMEOUT: The time (in seconds) that the CRIND waits after a card is inserted before indicating that the card was not read. Recommended 09:48 setting for this parameter is 60 seconds. To disable this CRINDBIOS option, set the parameter to 0. E CUSTOMIZATION 1 17 Press Cancel to save and return to the previous menu. <1> PRINTJOB TIMEOUT : 1500 <2> LOCAL PROMPT TIMEOUT <3> GRAPHICS FOR '<' AND DISABLE DISABLE <4> CARD REMOVE TIMEOUT : 60 - GO TO PAGE 1 <0K> (CANCEL> - BACK TO PREVIOUS MENU 18 From the CRINDBIOS menu, press <5> PUMP and check or set the following: · Set Pump ID. 09:56 Set Protocol.
 - · Set BAUDRATE.





5 – Configuring Omnia PCB

Verifying the UPM and Software Versions

Note: For the Omnia hardware and configuration to work properly, the UPM software must be at the minimum required version, and the OMNIA parameter set in the UPM. Verify all software versions in the UPM and pump. Minimum requirements are listed in this manual. For more information on hardware installation, refer to MDE-5360 FlexPay IV and Omnia Kit Installation Instructions.

Before configuring the Omnia PCB, verify the software version and upgrade to the latest approved version on the extranet. If this is the first time that an Omnia has been installed in this dispenser, you must use the Service Port to access the Omnia Web page. After the Omnia is configured, the Omnia Web page can be accessed from the back room via the external IP address (for example, 10.5.55.71:3000).

Logging In to Omnia

To configure the Omnia PCB, proceed as follows:

1 Using a laptop, set laptop static IP address to 172.20.100.15 and the subnet mask to 255.255.255.0.



Figure 5-1: Service Port Location

2 Connect the laptop to the Service Port on the Omnia PCB using a standard CAT5 cable.

3 Open the Chrome web browser and type http://172.20.100.254:3000 in the address field.

Note: This is the default IP address. If a different IP address was assigned, take note of the address and type it here to access the correct location.

Figure 5-2: Entering IP Address



IMPORTANT INFORMATION

Beginning with version 03.02, http connections are redirected to https. With earlier versions of the Omnia software, when connecting to an Omnia PCB with a previous version of the Omnia software, the browser may redirect to https on port 2000. The address in the browser shows https://172.0.100.254:2000 and displays the message "172.20.100.254 refused to connect." This is because Chrome browser pulls files from the cache memory.



← → C () https://17220.100.254/2000		
	<u> </u>	
	Ê	
	This site can't be reached 172.20.100.254 refused to connect.	
	Try: • Checking the connection • Checking the proxy and the firewall	
	ERF. CONNECTION, REFUSED	
	Reload	DETAILS

In such cases, enter http://172.20.100.254:3000? (question mark "?" appended) in the address bar of Chrome browser to bypass the redirection (See Figure 5-4).

Figure 5-4: Entering IP Address to Bypass Browser Wrong Re-direction



Clear the browser cache to avoid wrong re-direction.

To clear the browser cache, proceed as follows:

- **a** Press **Ctrl + Shift + Delete** on the keyboard. The Clear browsing data window opens.
- **b** Select **All time** from the Time range drop-down field and then select **Cached images and files**.
- 4 Click CLEAR DATA. Clearing the browser cache is an alternative to appending the question mark as described above.

Figure 5-5: Clearing Browsing Data

	Basic	Advanced	
Time	erange All time	v .	
	Browsing history Clears history and autocompletion	s in the address bar.	
	Cookies and other site data Signs you out of most sites.		
	Cached images and files Frees up less than 1 MB. Some site visit.	es may load more slowly on y	our next
		CANCEL	EAR DATA

5 Enter http://172.20.100.254:3000 in the address bar. To accept the https certificate, click **ADVANCED**.

Figure 5-6: Extending	ADVANCED Security	Settings of the Browsei
-----------------------	--------------------------	-------------------------

Your connection is not private
Attackers might be trying to steal your information from 172.20.100.254 (for example, passwords, messages, or credit cards). <u>Learn more</u> NET:ERR_CERT_AUTHORITY_INVALID
Automatically send some <u>system information and page content</u> to Google to help detect dangerous apps and sites. <u>Privacy policy</u>
ADVANCED Back to safety

Figure 5-7: Accepting https Certificate

A
Your connection is not private Attackers might be trying to steal your information from 172.20.100.254 (for example, passwords, messages, or credit cards). Learn more NET:ERR_CET_AUTHORITY.INVALD
Automatically send some system information and page content to Google to help detect dangerous apps and sites. <u>Privacy policy</u>
HIDE ADVANCED Back to safety
This server could not prove that it is 172.20.100.254 ; its security certificate is not trusted by your computer's operating system. This may be caused by a misconfiguration or an attacker intercepting your connection.
Proceed to 172.20.100.254 (unsafe)

6 Click Proceed to 172.20.100.254 (unsafe).

7 Depending on the configured login mode, the Omnia login page opens (See Figure 5-8).

Figure 5-8: Default Login Page

тот				
Omnia Configuration Basic Authentication Login				
System Date/Time: 2021-03-01 10:18:05 am GMT+01:00				
Password				
Enter Password				
Login				

Note: Password is the last 6 digits of the Product Part Number (PPN) displayed at the bottom right. PPN is a GVR identifier unique to each Omnia boards derived from Ethernet MAC-address. The time shown is the board time and not the system time.

If logging in the first time for a new installation, and GVR ID is not set, the following message prompts you to set a GVR ID.

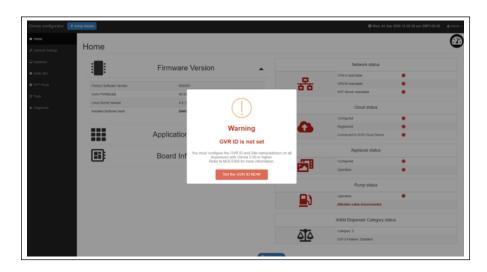


Figure 5-9: GVR ID Not Set Warning Message

a Click **Set the GVR ID NOW** takes you to the Insite 360 Configuration page, where you can set the GVR ID.

b Complete the Insite 360 Configuration page and click Save.

Note: Without saving, the Warning: GVR ID is not set message is displayed again.

Figure 5-10: Setting the GVR ID

Omnia configurator	Solida Witzend		Ø Wod, 04 Sep 2024 12:31:23 pm GMT=60:00 ▲Adven -
ell Home			
	Insite 360 Configuration		
	-		
C Applause	Settings Registration		Insite 360 Actions
 Insite 360 	General Configuration		🖌 Check Snifer
RTP Provy			✓ Check Confidente
Of Texts	GVR ID	NOT_SET	of Chuck Sectal
		Required	
& Diognestic	Sile Name	NOT_SET X	
		Required	-
	Sile Address	NOT_SET #	
		Required	
	Omeia Nickname	х	
		Required	
	Dormani Enabled		
	Incremental Logs		
	Download Logs Every (mins)	50 🗸	
	Serial Cable Brep Alert Enabled (Zmodem/RTP)		
	Door Sensor Enabled (RTP)		
	PUMP Configuration Settings		
	Two-Mire Maney Mode	5 Digits Money Mode (Default)	-
	Morey Decimal Position	X ss (Default)	*
	PPU Decimal Position	X.xxx (Default)	2
	CRIND Configuration Settings		
	Baroode Scanner Side A present		
	Printer Side A present	•	
	Baroode Scanner Side 8 present		
	Printer Side 8 present	•	
		Careal Save	

8 All Omnia IP addresses can be changed by accessing the proper sub-menu/page and by resetting the default mechanism provided to prevent the forgotten IP-changes. A push-button is available on the Omnia board to reset the IP address. Default IP address: 172.20.100.254.

Figure 5-11: Login Page for Access Code Mode

Warning	×
Login Failed	I
Wrong Password	
System Date/Time: 2021-03-01 10:22:44 am	a GMT+01:00
Access Code	
•	
Login	
MAC Address: 00:50:83:f0:28:e0	PPN: 15739104

Note: Every failed login attempt is warned by an error popup displaying the relative error message.

Figure 5-12: Rolling	Password Fallback
----------------------	--------------------------

Rolling Password Enabled after 3 failed login 00:14:56	attempts, it will be disabled in:
	оот
Omnia Configur Access Code Login	ration
System Date/Time: 2021-03-01 10:23	:49 am GMT+01:00
Access Code	
•	
Login	
Use rolling password	
MAC Address: 00:50:83:f0:28:e0	PPN: 15739104

- Notes: 1) Access code is provided by the customer. The access code must meet the following requirements: Between 6 and 40 characters that can include lowercase and uppercase letters, numbers, and special characters, and excluding spaces.
 - 2) If the relative option is enabled (in wizard or advanced settings) the user can switch to Rolling Password authentication for 15 minutes after three failed login attempts. The countdown at the top of the page shows the remaining time.

Figure 5-13: Login Page for Rolling Password Mode

GILBARCO VEEDER-ROOT			
Omnia Configuration Rolling Password Login			
System Date:	2021-03-01		
System Time:	10:24:36 am GMT+01:00		
PPN:	15739104		
Technician ID:	Technician ID		
	Type your ID		
Password:			
Enter Password			
Login			

- *Note: Type your Technician ID. Password is provided by the ASC Online Activation Tool (recommended) or the Gilbarco Help Desk.*
- 9 Enter the requested credentials and click Login.

Omnia Configurator - Creating a New Configuration

You can create or modify a new Omnia configuration by going through each page of the Omnia Configurator Web UI.

Omnia Configurator - General Settings

1 Click General Settings to open the configuration page as shown in Figure 5-14.

Note: For Door Sensor dispenser only: In the case of an update from 03.xx to 04.xx release, it is necessary to re-configure Dispenser Model and Pump connection to Encore and RTP_serial settings.

Figure 5-14: General Settings

Omnia configurator / Setup Wizard					
W Home					
🗲 General Settings	General Settings				
Insite 360	General configuration				
RTP Proxy	Select Dispenser Model	Encore			
GP Tools	Select Payment Type	Encore M7	*		
🎄 Diagnostic	Select Dispenser Type	W/ W/	* *		
	Select TwoWire Connection Type	MOC	* *		
	Select Pump Baud Rate	DEFAULT (5787)	• •		
	Fill in Dispenser Serial Number	EN123466			
	Side A Fueling Position	1			
	Side B Fueling Position	2			
	Select Pump Connection Type	RTP-serial	~		
	Network Settings (3/Amunal arthur				
	Side A External IP Address	10.5.85.71			
	Side B External IP Address	10.5.55.72			
	Side A-B External Netmask	265.265.265.0			
	Backroom Router IP Address (Gateway)	10.5.65.1			
	Primary DNS	8.8.8.8 This field can be empty if Cloud app is disabled			
	Secondary DNS	8.8.4.4 This field can be empty if Cloud app is disabled			
	Login Mode Settings				
	Current Login Mode	Basic Authentication			
	Canosi	Save			

2 Use the following table for Omnia configuration settings:

Field	Configuration Settings		
Dispenser Model	Encore, Latitude, or AtlasX		
Payment Type	M7 or Invenco (Select M7 for FlexPay IV)		
Site dispenser type	Dual-sided or Single-sided Unit		
Select Two-wire Connection Type	MOC or Generic. Ensure that the UPM and Omnia are set to the same connection type. Note: If "Invenco" is selected for the Payment Type, the "Select Two-wire Connection Type" field is set to "GENERIC CRIND" and cannot be changed. When this parameter is changed (from MOC to Generic or Generic to MOC), a reboot		
	is required. Reboot the Omnia board from the Tools tab or warmstart the dispenser. Wait for 10 seconds before reapplying power.		
Select Pump Baud Rate	No change. Setting should remain at Default (5787).		
Dispenser Serial Number	Enter the serial number given on the dispenser side label.		
SIDE A fueling position	Fueling position number of Side A. Side A is the side where the Calibration Switch is located. Possible values are 1 - 989. Ensure that you set the proper fueling position with no duplicates across the forecourt.		
SIDE B fueling position	Fueling position number of Side B. Possible values are 1 - 989. Ensure that you set the proper fueling position with no duplicates across the forecourt.		
Pump Connection Type	 Select from the following options: RTP-Ethernet - Latitude units. ZModem - For Encore or AtlasX units without door sensors. This is the default value. RTP-Serial - For Encore or AtlasX units with door sensors (PCN version 04.xx or later). 		
	To manage door sensors remotely through the Cloud, program the pump to use Real time Protocol (RTP-Serial). For more information, refer to <i>MDE-3860 Programming Quick Reference Guide</i> .		
Invenco Side A External IP Address	For Invenco Side A External IP address configuration, refer to MDE-5686 Configuring Invenco Outdoor Payment Terminals for Gilbarco Dispensers manual.		
Invenco Side B External IP Address (not used for single-side configuration)	For Invenco Side B External IP address configuration, refer to <i>MDE-5686 Configuring</i> Invenco Outdoor Payment Terminals for Gilbarco Dispensers manual.		
Omnia External IP Address	For Omnia External IP address configuration, refer to MDE-5686 Configuring Invenco Outdoor Payment Terminals for Gilbarco Dispensers manual.		
Side A External IP Address	For Side A External IP address configuration, refer to "IP Scheme FlexPay IV" on page 5-11 for Gilbarco default settings. This field is auto-populated with 10.5.55.XX (XX depends on Side A fueling position entered, 70 + ID). Will need to be changed if site using custom External IP Addresses. Note: These IP addresses may be different based on the site's IP scheme.		
Side B External IP Address	For Side B External IP address configuration, refer to "IP Scheme FlexPay IV" on page 5-11 for Gilbarco default settings. This field is auto-populated with 10.5.55.XX (XX depends on Side A fueling position entered, 70 + ID). Will need to be changed if site using custom External IP Addresses		

site using custom External IP Addresses.

Backroom Router IP address.

External subnet mask (default 255.255.255.0)

Note: These IP addresses may be different based on the site's IP scheme.

Side A-B External

Backroom Router IP

Address (Gateway)

Netmask

Field	Configuration Settings	
(Generic CRIND) Pump 2-Wire ID Side A (1-16)	Note: For MOC, the pump ID for side A will be hard-coded 7.	
(Generic CRIND) Pump 2-Wire ID Side B (1-16)	Note: For MOC, the pump ID for side B will be hard-coded 11.	
Primary DNS	Enter the customer-provided DNS IP address or enter 10.5.55.1 as default. Note that this field may also use non-default values. Consult the site's IT Department for IP Settings in the back room. The GVR ID and Primary DNS must be input by the technician for auto-registration to work properly. Note: These IP addresses may be different based on the site's IP scheme.	
Secondary DNS	Google Public IP 8.8.8.8. Be aware that this field may also use non-default values. Consult the site's IT Department for IP Settings in the back room. Note: These IP addresses may be different based on the site's IP scheme.	
Advanced Settings	Omnia Internal Subnet Mask: 255.255.255.0 Omnia Internal IP Address: 172.20.100.254	
Current Login Mode	Indicates if No Authentication, Access Code (set by customer), or Rolling Password (ASC Tool).	

Note: Ensure that the UPM and Omnia are set to the same connection type. When this parameter is changed (from MOC to Generic or Generic to MOC), a reboot is required.

The following table provides details to select an appropriate Internal CRIND IP address for the associated fueling position:

Internal IP Scheme FlexPay IV				
Fueling Position	Side	CRIND IP Address	Default Gateway	
1/2	А	172.20.100.1	172.20.100.254	
1/2	В	172.20.100.3	172.20.100.254	
3/4	А	172.20.100.1	172.20.100.254	
5/4	В	172.20.100.3	172.20.100.254	
Card Reader	N/A	172.16.100.2	172.16.100.1	
Etc.	Etc	Etc.	Etc.	

Note: The table shows IP addresses that FlexPay IV automatically assigns as internal IP address based on the detected Side (A/B).

Note: After changing general settings while Idle loop is playing, an Omnia reboot is needed to restore Applause Multimedia System functionalities. For more information, refer to "Reboot" section on page 5-29.

		External	IP Scheme Fle	xPay IV	
Fueling Position	Side	Omnia External IP Address	IP Address	Backroom Router Subnet Mask	Primary DNS
1/2	А	10.5.55.71	10.5.55.1	255.255.255.0	10.5.55.1
1/2	В	10.5.55.72	10.5.55.1	255.255.255.0	10.5.55.1
3/4	А	10.5.55.73	10.5.55.1	255.255.255.0	10.5.55.1
3/4	В	10.5.55.74	10.5.55.1	255.255.255.0	10.5.55.1
E/C	А	10.5.55.75	10.5.55.1	255.255.255.0	10.5.55.1
5/6	В	10.5.55.76	10.5.55.1	255.255.255.0	10.5.55.1
7/0	А	10.5.55.77	10.5.55.1	255.255.255.0	10.5.55.1
7/8	В	10.5.55.78	10.5.55.1	255.255.255.0	10.5.55.1
0/40	А	10.5.55.79	10.5.55.1	255.255.255.0	10.5.55.1
9/10	В	10.5.55.80	10.5.55.1	255.255.255.0	10.5.55.1
11/10	Α	10.5.55.81	10.5.55.1	255.255.255.0	10.5.55.1
11/12	В	10.5.55.82	10.5.55.1	255.255.255.0	10.5.55.1
	Etc	Etc.	Etc.	Etc.	Etc.

The following table provides details to select appropriate external CRIND IP address for the associated fueling position:

Notes: 1) Primary DNS value is provided by the customer or is considered to be 10.5.55.1 (if the site uses Gilbarco-provided RV042 Router).

2) The table shows addresses that are subject to change with the site networking scheme. Values provided in the table are for EXAMPLE ONLY.

3 When the configuration is complete, click **Save** and go back to the Home page.

Omnia Configurator - Applause

1 If applicable, click **Applause** in the left navigation menu to open the Applause Configuration page as shown in Figure 5-15.

Figure 5-15: Applause Configuration Settings

Omnia configurator 🗲 Se	O Tue, 07 May 2024 05:30:43 pm GMT+00:00 ▲Admn +					
⋪ Home ≁ General Settings	Applause Configuration					
C Applause	Mode	Applause 🗸	Media Utility			
 Insite 360 RTP Proxy 	Side A		Check Pump Monter			
CP Tools	Terminal ID Pump ID	1)				
	Side B					
	Terminal ID	14 🗸				
	Pump ID	14 🗸]			
		8				
	Idle Loop Delay	180 🗸]			
	Idle Loop Delay From Busy	60 🗸]			
		0				
	Busy Loop Delay	5]			
	Source	Server 🗸]			
	Server	10.5.48.66]			
	Volume	5 🗸)			
	Cancel	See				

Notes: 1) Scroll down to see all programming fields on the configuration pages.
2) Ensure to check the Idle Loop Enabled and Busy Loop Enabled boxes for sites applicable.

Field	Configuration Settings
Mode	Set the Media mode to Applause Media System.
Side A - Terminal ID	Set the Terminal ID to match the actual CRIND ID programmed in the unit programming or fueling position.
Side A - Pump ID	Set the Pump Monitor ID to match the actual pump ID programmed in the unit programming. (If connected to Passport POS system, all IDs will be 7 for side A and 11 for side B).
Side B - Terminal ID	Set the Terminal ID to match the actual CRIND ID programmed in the unit programming or fueling position.
Side B - Pump ID	Set the Pump Monitor ID to match the actual pump ID programmed in the unit programming. (If connected to Passport POS system, all IDs will be 7 for side A and 11 for side B).
Idle Loop Enabled	Enable or disable the Idle Media. Select to turn ON if you want the media to run when the unit is in idle condition. If you do not want media to run when the unit is idle, set as disable.
Idle Loop Delay(s)	Number of seconds of delay before starting idle media loop.
Idle Loop Delay From Busy	Number of seconds of delay before starting idle media loop after busy loop.
Busy Loop Enabled	Turn the Busy Media ON or OFF. Select to turn ON if you want the media to run when the unit is in busy condition. If you do not want the media to run when the unit is busy, set as Delay.
Busy Loop Delay(s)	Number of seconds to delay before starting the busy media loop.

Field	Configuration Settings
Source	Server
Server IP	Applause server IP address should be changed (recommended 10.5.55.66).
Volume	Video volume 1-100

- Notes: 1) If Idle Media is enabled, media advertisements can run during a POS application download. Gilbarco recommends disconnecting the Applause Media System Site Server or waiting to turn ON the Idle Media until the units are fully up and running with the POS.
 - 2) Side A/B A/V, Idle and Busy tests were removed and replaced with "Diagnostic A/V tests" in version 03.02 and higher. For more information, refer to "Omnia Configurator Diagnostic" on page 5-31.

Figure 5-16: Applause Configuration Settings - 2

Idle Loop Delay From Busy	60 🗸
Busy Loop Enabled	8
Busy Loop Delay	5
Source	Server
Server IP	10.5.55.66
Volume	85
	Back Next

- *Note: Ensure that you select the Idle Loop Enabled and Busy Loop Enabled boxes for sites applicable.*
- 2 Click Next.

Omnia Configurator - Insite 360

1 Click **Insite 360** in the left navigation to open the Insite360 Configuration page as shown in Figure 5-17.

Figure 5-17: Insite 360 Configuration Settings

Omnia configurator 🗲 Setup 1	Moard			© Tue, 07 May 2024 05:34:12 pm GMT+00:00
49 Home	Settings Registration			Insite 360 Actions
	General Configuration			✓ Check Sniffer
C Applause				Check Certificate
Insite 360	GVR ID	100454	 Image: A set of the set of the	
RTP Praxy	Site Name	GVR Lab 100	✓	
	Site Address	7300 W FRIENDLY AVE UNIT 100 Greensboro, NC 27410	✓	
CP Tools	Omnia Nickname	Omnia_13_14_100454	✓	
& Diagnostic		2 30	~	
	Two-Wire Money Mode	5 Digits Money Mode (Default)	~	
	Money Decimal Position	X.xx (Default)	~	
	PPU Decimal Position	X.xxx (Default)	~	
	CRIND Configuration Settings			
	Printer Side A present Barcode Scanner Side B present Printer Side B present			
	Cancel	Save		

Field	Configuration Settings
GVR ID	GVR ID. This must be set correctly for auto-registration to Insite360.
Site Name	Input the store's name. Confirm with the customer for proper format.
Site Address	Physical location listed in Insite360.
Omnia Nickname	Site name. Note: Use the same name for all units.
Dormant Enabled	The dispenser is connected to Insite360 but no messages are exchanged between the dispenser and Insite360. The status in the Insite360 portal for the dispenser is the last one sent before getting into "Dormant Mode". Gilbarco can still "wake up" the units remotely to perform updates and log collection when needed.
	 Default settings when upgrading to Omnia V04.07 or higher or SSoM V3.3.3 or higher: If the device is not registered to Insite360, the system will default Dormant mode to Enabled (check box is selected). If the device is registered to Insite360, the system will default the setting to Not Enabled (check box is cleared).
Incremental logs	Ensure that the check box is selected (Download Enabled).
Download Logs Every (mins)	Leave at 30 minutes unless directed to change by Gilbarco.
Serial Cable Beep Alert Enabled	Enable/Disable the serial cable beep alert.

Field	Configuration Settings
Door Sensor Enabled (RTP)	Select to enable the Door Sensor option.
	 The following are the default settings when upgrading to V05.09 or higher: If the Omnia Pump Protocol was set to RTP before the software upgrade, the door sensor option will be automatically selected (enabled). If the Omnia Pump Protocol was not set to RTP, the door sensor option will not be enabled and the check box will be clear. Note: Omnia and PCN must both have RTP selected for the door sensor feature to work.

2 Click Save.

Omnia Configurator - Open Apps Configuration

1 Click **Open Apps** in the left navigation to open the Open Apps Configuration page.

Figure 5-18: Open Apps Configuration

nia configurator 🛛 🗲 Se	tup Wizard		Tue, 07 May 2024 02:10:39 pm GMT-04:00	DST 🛓
lome ieneral Settings	Open Apps Configuration	n		
nsite 360	Media State Enabled	Enabled	~	
ien Apps	Idle Loop Delay	10		
Proxy	Idle Loop Delay From Busy	10	· · · · · · · · · · · · · · · · · · ·	
ector Tool v2.1.3	Busy Loop Delay	5		
ols	Volume	50	~	
agnostic	Server	10.5.55.66	✓	
	JavaScript Console	Disabled	~	
	Side A			
	Pump ID	7	~	
	Side B			
	Pump ID	11	~	
		Cancel Save		
//10.80.32.60:4011/index#c	dynamicConfiguration			

Field	Configuration Settings
Media State Enabled	When enabled, media states are emulated by the dispenser. When disabled, media states must be pushed from the POS.
Idle Loop Delay	Number of seconds of delay before starting idle media loop.
Idle Loop Delay From Busy	Number of seconds of delay before starting idle media loop after busy loop.
Busy Loop Delay	Number of seconds to delay before starting the busy media loop.
Volume	Video volume 1-100
Server	Applause server IP address should be changed (recommended 10.5.55.66).
JavaScript Console	Enables the JavaScript Console for additional debugging of Open Apps.
Side A - Pump ID	Set the Pump Monitor ID to match the actual pump ID programmed in the uni programming. (If connected to Passport POS system, all IDs will be 7 for side A and 11 for side B).
Side B - Pump ID	Set the Pump Monitor ID to match the actual pump ID programmed in the uni programming. (If connected to Passport POS system, all IDs will be 7 for side A and 11 for side B).

2 Click Save.

Omnia Configurator - RTP Proxy Configuration (Optional)

If Insite360 monitoring of door sensors is installed in the Omnia system, complete the configuration for RTP Proxy.

Omnia configurator 🛛 🗲 S	etup Wizard			© Tue, 07 May 2024 02:11:31 pm GMT-04:00 DST ▲ Admin -
	RTP Proxy Configuration			
 Insite 360 Open Apps 	Proxy Listening Port Proxy Logging Level	51001	~	
RTP Proxy Xspector Tool v2.1.3	· rong anggong aaroo	chni	~	
		Cancel Save		

Figure 5-19: RTP Proxy Configuration

Field	Configuration Settings
Proxy Listening Port	TCP port for internal use. It is an informative field and cannot be changed.
Proxy Logging Level	Log verbosity level. Change only if more log data is required for troubleshooting.

The Dynamic configuration app pages displays a skip button. Clicking this will not save changes to relative app configuration on wizard closure. If there is a skipped configuration, the error shown in Figure 5-20 is displayed.

Figure 5-20: Skipped Configuration Error

Configuration Wizard		×
	Some configuration has been skipped and will be not saved Skipped applications: RTP Proxy	
Select Authentication Mode		
	Basic Authentication Access Code	
	Rolling Password	
		H Back X Quit without saving Save and exit ✓

Omnia Configurator - Tools

Omnia device provides a set of utility functions to perform the following:

- Retrieve System Information
- Export Config
- Log Retrieval
- Set Date and Time
- Advanced settings
- Software Update
- Reboot Omnia
- Reboot Side A (Reboots UPM)
- Reboot Side B (Reboots UPM)

To access to the utility functions, click **Tools** on the left sidebar of the Omnia web page.

Figure 5-21: Omnia Tools Settings

Omnia configurator 🖌 se	ietup Wizard	
# Home		
F General Settings	Tools	
P Applause	Omnia Utility	
Insite 360	C System Information	
RTP Proxy	Z Export Config	
C Tools	Log Retrieval O Set Date And Time	
a Diagnostic	Set Date And Time F Advanced settings	
	C Reboot Omnia C Reboot Side A	
	C ^e Reboot Side B	

Retrieve System information

Click System Information to the retrieve current hardware and software status of the device.

Figure 5-22: System Information

isa Par Nama Save Par Namber Save Par Namber Save Mandet Market Save Market	ardware info	
back PhilosophicNUTSTAUDIIback MundicularyAMAAback MundicularySint Sub		
bad Mankeling Dela Dela Dela Dela Dela Dela Dela Dela		
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based Manufacturer Wer Fore Stand Seal Instance Mit 100004 Seal Seal Seal Seal Seal Seal Seal Seal		
bask Shufik hunder 191300004 Wi 19730005 Wi 19730005 Add 19730005 amp info 6000 SSS ACSEX 94/972 AUSPE EBOCK OS 1987 EB0600 5126 SS ACSEX 94/972 AUSPE EBOCK OS 1987 EB0600 5126 Areson 05-003 Schwarz Wenson 05-003 Schwarz Wenson 046019 Schwarz Wenson 046019 Schwarz Wenson 046019 Schwarz Wenson 05-003 Schwarz Wenson 04000 00-64000 0068 100205640 Schwarz Wenson 04000 00-6400 0068 100205640 Schwarz Wenson 05-1000 Schwarz Wenson 05-1000 Schwarz Wenson 0400 00-6400 0068 100205640 Schwarz Wenson 05-000		
PN 1573935 AQ 0535310291 AQ 0535310291 and 0536310291 BQ 580 SSA AD3162344727 A1657E E55G3 C519F B08085 513 SA 117 200 SA 117 200 Advance 420162 944727 A1657E E55G3 C519F B08085 513 SA 117 200 Advance 420162 944727 A1657E E55G3 C519F B08085 513 SA 4212 9417527 A1657E E55G3 C519F B08085 513 SA 4212 9417527 A1657E E55G3 C519F B08085 513 SA 4214 Advance 4214 SA 4214 SA 4214 SA 4214 SA 4212 9417527 A1657E E55G3 C519F B08085 513 SA 4214 SA 4214 SA 4214 SA 4212 9417527 A1657E E55G3 C519F B08085 513 SA 4212 9417527 A1657E E55G3 C519F B08085 513 SA 4212 9417527 A1657E E55G3 C519F B081085 513 SA 4212 941752 A1657E E55G3 C519F B081085 513 SA 40304-4503 SA 40304-4503 SA 40304-4503 SA 40304-4503 SA 40304-4503 SA 40304-4503		
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sets E800 255 A2026.3 94727 A1657E E855C1 0519F B09008 51/3 246 117.2020 247 117.2020 248 117.2020 248 117.2020 248		
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BS3 AE28E3 MF727 ARB/FE 25SC3 C51MF7 BB9800 5128 ahe 117 220 Arraion 5603 arraion 6503 arraion 64401a Construction 64401a Construction 64401a Construction 64401a Construction 651000 Construction 651000 Construction 651000 partial 13.177 Construction 13.177 construction 23.1 mine-gal 13.177 mine-gal 13.177 mine-gal 13.2 pape 23.1 mine-gal 13.2 pape,media-ago 10.0 pape,media-ago 10.0 prometa-gal 1.0 promato-gal 1.0	ump info	
ade 117 203 Arreion 65 03 Sciency Mission 64 001 Sciency Mission 04 001 Sciency Mission 04 002+PA00 6869 150226049 Durp 05 10.000 purp 05 10.000 purp 05 10.000 mas-guid 10.3 1977 rph 2.21 purp 0.30 5040 purp 0.30 5040 pop 0.30 5040 pop 0.30 5040 pop 0.30 5040 per-paysebase 0.30 5 per-paysebase 0.30 5 pay-paysebase 1.00 0 pay-paysebase 1.00 0 pay-paysebase 1.00 0 pay-paysebase 0.20 0	RC	E89C
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citarly Software Version 040401a citarly Software Version 0408.00-=PR00.6569.160255649 citarly Software Version 0518.000 pump 0518.000 pump 0518.000 pump 0518.000 mang-ud 10.3.1977 poli 02.1 mang-ud 04.06.00-=6809.6669 poli 03.0 persion 03.0 persion 03.0 persion 0.0 persion 0.0 persion 0.0 procov 12.1 procov 10.0 procov 10.0 procove 10.0 procove 0.0 persion 0	/ersion	05-003
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OANT-public installed software hash: 414516 isgnostic Date and time Wed, 24 Feb 2021 16:03:51 +0100 Time zone CET -0100 Jp Time up 10 hours, 54 minutes femperature sensors 62.4 °C / 33.000 °C / 34.500 °C © demory usage 2.014G / 894/l / 498/l / 498/l @ Storage Data (immt/DATA) © 11G / 1.4G / 8.8G / 14% © .oad average(CPU %) © 2.95(73%) / 2.46(65%) / 2.46(61%) ©		
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Ved, 24 Feb 2021 16:03:51 +0100 Time zone CET +0100 jp Time up10 hours, 54 minutes remperature sensors 62.4 * C / 33.000 * C / 34.500 * C ● Aemory usage 2.014G / 984M / 48% ● Storage Data (/mttDATA) ● 11G / 14.4 / 8.80 / 14% ● .cad average(CPU %) ● 2.95(73%) / 2.64(68%) / 2.46(61%) ●		installed software hash: 414516
Time zone CET +0100 bp Time up 10 hours, 54 minutes Temperature sensors 62.4 °C / 33.000 °C ° 34.500 °C ° Alemony usage 2.014G / 894M / 498M / 498		
Up Time up 10 hours, 54 minutes Temperature sensors 624 °C / 33.000 °C 0 45.00 °C 0 Aemory usage 2.014G / 984M / 489K 0 Storage Main (/) 0 2.3G / 16G / 694M / 72% 0 Storage Data (/mt/DATA) 0 11G / 1.4G / 8.8G / 14% 0 .aad average(CPU %) 0 2.95(73%) / 2.64(66%) / 2.46(51%) 0		
temperature sensors 62.4 °C / 33.000 °C / 34.500 °C ● Aemory usage 2.014G / 984M / 498M / 498M / 48% ● Storage Main (/) ● 2.3G / 1.6G / 609M / 72% ● Storage Data (ImmtDATA) ● 11G / 1.4G / 8.8G / 14% ● .oad average(CPU %) ● 2.95(73%) / 2.84(66%) / 2.46(61%) ●		
Alemory usage 2.014G / 984M / 48% Ø Storage Main (/) Ø 2.3G / 1.6G / 609M / 72% Ø Storage Data (ImmtDATA) Ø 11G / 1.4G / 8.8G / 14% Ø .oad average(CPU %) Ø 2.95(73%) / 2.84(66%) / 2.46(61%) Ø	Jp Time	
Storage Main (/) 2.3G / 1.6G / 609M / 72% • Storage Data (Imm/DATA) • 11G / 1.4G / 8.8G / 14% • • .oad average(CPU %) •		
Storage Data (ImnUDATA) 11G / 1.4G / 8.8G / 14% 1 .coad average(CPU %) 2.95(73%) / 2.64(66%) / 2.46(61%) 0		
.cad average(CPU %) • 2.95(73%) / 2.64(66%) / 2.48(61%) •		
Refresh info Export		
		Refresh Info Export

Export system information during troubleshooting; the file contains all system versions and diagnostic information. To export system information, click **Export**. A text file is saved on the computer.

Log Retrieval

Log Retrieval page allows to retrieve logs of OmniaOS/CloudApp/MediaApp. The log will be uploaded to the web page as a zip file with file name extension: ppn_dateandtime.zip.

From Log Retrieval, you can select the range of dates and the required log level.

Note: Beginning with version 03.02, it is possible to retrieve all time and PCI-DSS relevant logs. "Log level required" option was removed (see Figure 5-23).

Figure 5-23: Log Retrieval

Select applications			
All Logs			
Omnia (OS + Apps)	Media App	Cloud App	
PCI log			
Options			
Range of dates	From	То	m
	Download selected logs		
			Clos

To retrieve logs, proceed as follows:

- 1 Select applications for which you want to retrieve logs.
- **2** Select the range of dates.
- **3** Select the required log level: Error Warning Info Debug (only for Omnia running versions lower than 03.02).
- 4 Press **Download** for selected logs.

Figure 5-24: Log Retrieval Successful Message

Select applications			
All Logs			
V Omnia (OS + Apps)	Media App	Cloud App	
PCI log	\checkmark		
Range of dates	Request has successfully completed	02/24/2021	
	ок		

Advanced Settings

The Advanced Setting page includes the following options:

Figure 5-25: Advanced Settings

vanced settings		
Platform Log level	debug	•
Log suppression	Log Suppression will Enabled 24 hour	
Force Display Size Algorithm (LAB usage Only)	Default	•
Set Authentication Login Mode	Basic Authentication	•
	Cancel Save	
		Cic

Figure 5-26: Log Suppression Disabled

Platform Log level	debug	Ŧ
.og suppression	Disabled	ally enabled in 59:50
Force Display Size Algorithm (LAB usage Only)	Default	Ŧ
Set Authentication Login Mode	Basic Authentication	٠

Field	Description
Logging level	 There are two modes: standard and debug. Standard is the default logging level during Omnia installation and initial startup, or during an Omnia software upgrade. The Debug setting can be requested by Engineering or Service. It can be used for field trial monitoring or troubleshooting. The log level can be set remotely using Insite 360.
Log suppression	Can be set to Enabled or Disabled using the toggle button. If disabled, a countdown until timeout will be shown.
Force Display Size Algorithm	Includes the following three options: Default, ForceA, and ForceB.
Set Authentication Login Mode	 Includes the following three options: No Authentication - This is the default option. Access Code - Access code is provided by the customer. The access code must meet the following requirements: Between 6 and 40 characters that can include lowercase and uppercase letters, numbers, and special characters, and excluding spaces. Rolling Password is generated from "System date", "PPN" and "Technician ID", and provided by Gilbarco Help Desk through the ASC Online Activation Tool. Select "Allow Rolling password as a secondary access method" if the customer wants to fall back to Rolling password rolling mode in case Access code is lost (see Figure 5-27 on page 5-21).

Note: If "Access code" login mode is chosen, an access code is requested and should be entered by the customer (see "Omnia Configurator - Diagnostic" on page 5-31).

In Set Authentication Login Mode, if the Access Code login mode is selected it will display the rolling password fallback option screen.

Figure 5-27: Login Mode with Access Code

Platform Log level		debug	
les annuels			
Log suppression		Enabled Log Suppression will 1	
Force Display Size Algorithm (LAB usage Only)		Default	
Set Authentication Login Mode		Access Code	
Current Code	Current C	de	
New Code	New Code		
Confirm New Code	Confirm N	ew Code	
	Type the net	v code again	
Allow Rolli	ing Password as	Secondary Access Method	
	Ye		
	Cancel	Save	

Figure 5-28: Login Mode with Rolling Password Selected

Platform Log level	debug	
Log suppression	Enabled 24 hot	
Force Display Size Algorithm (LAB usage Only)	Default	
Set Authentication Login Mode	Rolling Password	

After setting the desired values, click Save. Advanced settings will be saved.

Figure 5-29: Saving Advanced Settings



Set Date and Time

The Set Date and Time page allows to set the date, time and time zone of the Omnia system. From the Set Date and Time page, you can configure the NTP server settings and disable, if not required.

Note: If the device is connected to Internet and the public NTP URLs are reachable, then the date and time are automatically synchronized.

Figure 5-30: Setting Date And Time

Omnia configurator 🥑	Selup Wizard	Set Date And Time		ی Tue, 07 May 2024 05:56:17 pm GMT+00:00 الله Admin -
₩ Home ≁ General Settings	Tools	Timezone	(UTC +00.00) GMT Time - Reykjavik	·
Applause		Date And Time	05/07/2024 5.51 PM	
Insite 360		NTP	Enable NTP	~
RTP Proxy		NTP Servers	Use defaults	~
C# Tools		NTP servers (default or custom) must be reachable from the device.		
≜ Disgnostic				
				Close Save
		C ^{er} Reboot Side A C ^{er} Reboot Side B		

Figure 5-31: Tools > Advanced Settings

Omnia configurator 🔰 S	etup Wizard	Advanced settings		ی Tue, 07 May 2024 05:58:09 pm GMT+00:00 الله Admin +
₩ Home ≯ General Settings	Tools	Platform Log level	debug	
Applause		Log suppression	Log Supression will turn on after Encoded 24 hours	
Insite 360		Force Display Size Algorithm (LAB usage Only)	24 hours Default	v
RTP Proxy CP Tools		Set Authentication Login Mode	Basic Authentication	v
& Diagnostic				
		Cancel	Save	
				Close

Field	Configuration Settings
Timezone	Region of the globe that observes a uniform standard time.
Date And Time	Current time (not available if NTP is enabled because the time is synced with NTP Server).
NTP	 ENABLE NTP (Omnia automatically syncs date and time with configured NTP server/s). DISABLE NTP (Omnia uses system clock configured).
NTP Servers	Configure this parameter following customer IT requirement: use default server list or configure customer specific NTP servers IP address.
and time, an	ers are not available at the time of registration, manually set the date d then re-enable NTP for future sync. e LED on the homepage is green after setting the date and time.

If LED is not lit green, the I360 functionality	will be impacted

Software Update

From the Software Update page, you can update the Omnia software: Core-Firmware, TW Proxy, CloudApp, MultimediaApp, RTP Proxy, OpenApp Framework, and OpenApps.

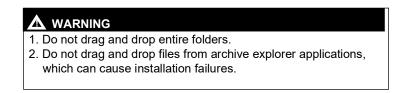
Requirements for Software Update

The software update page allows you to upload a zip file (zipped) that contains multiple debian signed packages. The software must be uploaded in a zipped format. Only use the zip file provided by Gilbarco to update the software (extranet). The zip file must not be extracted and should be uploaded as it is.

Expectations for the Software Update Process

- 1 The software upgrade process takes approximately 20-25 minutes.
- **2** After 12 minutes has passed, the dispenser goes offline from the forecourt. The pump flashes an error code 50. After 8-10 more minutes, the dispenser comes back online.

3 Figure 5-34 on page 5-27 shows the message that indicates when the software update is completed. Reboot to continue.



To update the software, proceed as follows:

1 Select zip file.

1. Select files				
Drop files here				
Choose files				
2. Upload queue				
Name	Size	Progress	Status	Action
omnia-gui_1.0.3.1977_armhf.deb	3.30 MB	100 %	✓ Done	🛱 Remove
		oading progress:		
		100 %		
⊕ Upload all a fi Remove all				

Figure 5-32: Software Update - Upload Queue

2 Wait until the Omnia packages are installed.



	WARN			
	Update in p			
D	o not reboot or pov	vercycle the k	board!	
	65%	%		
Hame	Size Pr		Station	Action
idoh.thmu.td+4-500_allodeu	D 20 ME	A DECKER OF STREET		
wysternal_228-12-hpai/4.1_armit.dsts				
systemid-tests_201-12-bps8+1_armht.deb				
python3-out-1.0.5-1_all.deb				
pythins3-setuptoois_22,1,1-1_all.itets	Installing 'Omn	ia' na alva a a		
python3-pkg-resources_33.1.1-1_sti.deb	Installing 'Omn	la packages		
[24/24] Unpacking [omnia-webui-	04.06.00~d-6472.6472_arm	nf.deb] (name:omnia	a-webui version:04.0	6.00~d-6472.6472)
python3-attr_16-3.0-1_all.delt				

IMPORTANT INFORMATION

Rebooting or power cycling the Omnia while a software update is in progress could potentially make the Omnia inoperative, and a PCB replacement might be required.

Note: From this point, the upgrade process takes approximately 20-22 minutes.

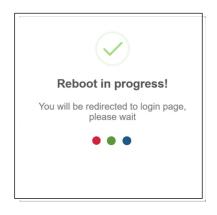
- **3** After 12 minutes has passed, the dispenser goes offline from the forecourt.
- **4** If an Error Code 50 is displayed, wait. It should clear when communication is re-established with the POS.

5 After 8-10 more minutes, the dispenser comes back online. Figure 5-34 shows the message that indicates when the software update is completed. Reboot to continue.

Figure 5-34: Software Update Successful Completion Message

Select files Drop files here hoose files			
Upload queue ame ih_enable_omnia-01.04.X.zip	Software update completed	Status ✓ Done	Action
D Upload at	Software is now up-to-date A reboot is required reboot scheduled in 0:02:53 I'll do later Yes, Reboot		

Figure 5-35: Initiating Reboot Message



6 In case of errors in the software update, the progress indicator stops and an error message is displayed. Export the installation logs using the Export Logs button and close the page.

Figure 5-36: Software Update Error

		Software update WARNING!
		Update in progress! Do not reboot or powercycle the board!
		Drop Hes have
		Chone Hes
		Errors during software updating
		Name Size Progress Status Action testapp34_13.0-1 all.deb 0.00 MB Encr. wer ddfab Rock Barrow
		Package dependencies error
		[1/1] verifying package [testapp34 1.0.0-1 all.deb]
ARNING package OTICE [DO_VERI OTICE Installing '	e contains some ele FY_EXTRACT_PA Omnia' packages "['I	Join (basedir =/Imp/ominia-package/session) ments out of Iree, expended in 'homelestuser344-lestapp34' CKAGE] All packages verified with success testapp34 10.0-17 Enor: Some dependencies are not met for following packages: [testapp34]]
RROR [DO_INST.	ALL_VERIFIED_PA	CKAGE] reported an exception Failed to install. [Package: [testapp34]] [Error: Some dependencies are not met for following packages: [testapp34]]
		Equal Lags

Note: A warning could be issued sometimes due to loss of synchronization between WebUI and installing process (see Figure 5-37). Updates in background continue even if the error is present. Refresh the page to restore the installation information.



Global Reliability Engineering Gr: X G what is an laminar - Google Sear: X New Tab	x X https://www.gvrspotsdk.com/ind	C Omnia Admin	× 🛛 📀 10.5.55.115	× Omnia A	dmin	×	+		0
→ C △ ▲ Not secure 10.5.55.111:2000/login							\$ 0		* (
Apps 🛷 ADP 🦚 Home - Global Reli 😵 SMS Home 🥼 InsideFortive - Home 🚫 Gilbarco Extranet	🔇 Insite360 Sign In 🤹 Gilbarco Intranet	💤 Saba - Gilbarco Trai 🔞 /	ASC App Login 👩 Mail - JGoodman@	8 PDWare ResourceFi	SSE Sharepoint	🗘 GS	TV Applause"	M	
		NING!							
		n progress!							
	Do not reboot or po	owercycle the l	board!						
			i						
3	comething wrong in a		session						
	Try to refre	sh the page							
	Analyzing	packages							
	, ,								
раска	age [signed-omnia-media	asyncollent_02.2.0	8_armnt.debj						
	- (!!)								
OTICE New package installation session (basedir ='/tmp/omnia-packag OTICE [DO_VERIFY_EXTRACT_PACKAGE] All packages verified with	· · · · · · · · · · · · · · · · · · ·								
OTICE [DO_VERIFY_EXTRACT_PACKAGE] All packages verified with									
ARNING package contains some elements out of tree, expected in '/ho									
OTICE [DO_VERIFY_EXTRACT_PACKAGE] All packages verified with	success								
OTICE [DO_VERIFY_EXTRACT_PACKAGE] All packages verified with	success								

Reboot

Reboot the dispenser a second time.

Figure 5-38: Reboot Status

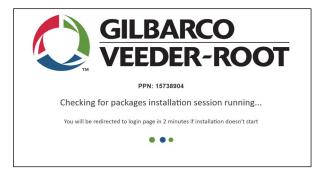
Reboot in progress!
You will be redirected to login page, please wait
• • •

Software Update (From Version 04.07 or later)

The Software Update is a two-step process:

1 The first step checks for packages with system updates required by new versions of apps.

Figure 5-39: Software Update Packages



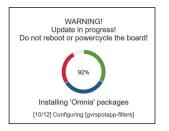
2 There is a prompt to reboot.

Figure 5-40: Software Update Reboot



3 All other apps are installed. The progress page is displayed.

Figure 5-41: Software Update Progress



- 4 After the Omnia reboots, you are prompted to log in.
- 5 On the Insite 360 Configuration page, verify the status of the Dormant Enabled check box and configure according to the customer's preference when registering the device to Insite360. If preference is unknown, set the Dormant Enabled check box to clear (not enabled).

Figure 5-42: Insite 360 Configuration

figuration Wizard		
nsite 360 Configuration	n	
Settings Registration		
General Configuration		
GVR ID	111111	~
Omnia Nickname	DISPENSER 1	*
Dormant Enabled		
Incremental Logs Download Logs Every (mins)	30	~
PUMP Configuration Settings		
Two-Wire Money Mode	5 Digits Money Mode (Default)	~
Money Decimal Position	X.xx (Default)	~
PPU Decimal Position	X.xxx (Default)	~
CRIND Configuration Settings		
Barcode Scanner Side A present		
Printer Side A present		
Barcode Scanner Side B present Printer Side B present		
	K Back	H Skip Nex

Accessing Omnia from the Backroom

After the Omnia is configured and if it is on a site LAN, it can be accessed from the backroom. To access the Omnia, use the external IP of A or B side UPM, followed by ":3000". For example, 10.5.55.71:3000. From there, you can perform Omnia maintenance functions that do not require opening the dispenser, such as software upgrades, Applause testing, and log retrieval. Ensure that you cone off the dispenser that is impacted.

Omnia Configurator - Diagnostic

Omnia provides a set of utility functions to perform the following diagnostic tests:

- Networking diagnostics
- Audio video
- Hardware

Note: Diagnostic testing is not available when the Payment Type is Invenco.

To access the Diagnostic page, click **Diagnostic** on the left pane of the Web interface.

Omnia configurator 🛛 🗲 Se	tup Wizard	▲ Admin →
# Home	Diagnostic	
≁ General Settings	👍 Network Test	🖵 Audio Video Test
Insite 360	V Simple Ping	AV Test side A
RTP Proxy Tools	○ Manual	A/V Test side B
& Diagnostic	Outside Connectivity	Hardware Test
	DNS	USB Test
	III Results	
	DN	5 Test: device gilbarco.com Success
	DNS	est: registration.gibarco.com Success
	DNS	Test transfer gibarco com Success
	Ping Test: GATEWAY 192.168.68	1.4 packet transmitted, 4 received, 0% packet loss, time 3005ms

Figure 5-43: Omnia Diagnostic Page

Every test group can be executed simultaneously by selecting the check box and clicking the corresponding **Start** button. While a test group (network or audio/video) is running, the corresponding Start button indicates the state with the label "Running" and a spinning cog.

Figure 5-44: Network Test

New 12 Mart	-
Simple Ping	8.8.8.8
Manual Gateway Applause Server	Test IP address/URL
Outside Connectivity	
✓ DNS	

The user cannot cancel or clear the selected tests while the corresponding test group is running.

All test results are reported on lower panel in the page.

III Results
DNS Test: device sandbox gilbarco.com Success
DNS Test: registration sandbox gilbarco.com Success
DNS Test: transfer.sandbox.gilbarco.com Success
Ping Test: 8.8.8.4 packets transmitted, 4 received, 0% packet loss, time 3005ms
AVV Test side A is running Stop Test

Figure 5-45: Results Screen

Network Tests

These tests check network base functionalities.

Ping Test

This will perform a simple ping test to one of these hosts:

- **1** Default Ethernet gateway (defined in the network configuration section of General Settings page).
- 2 Applause Server (only if media or open apps are installed).
- **3** Manually chosen host (it can be an IP address or a URL).

Host can be an IP or a URL: in the case of a URL, a successful result means that DNS is functional.

To perform a ping test, proceed as follows:

- 1 Check Simple Ping.
- 2 Enter the IP address or URL to be pinged.
- 3 Click Start.
- 4 Select the test result in the "**Results**" section.

Figure 5-46: Ping Test

🚓 Network Test		🖵 Audio Video Test
✓ Simple Ping	8.8.8.8 Test IP address/URL	AV Test side A
Outside Connectivity		Hardware Test
DNS Start		USB Test
III Results		
	Ping Test: MANUAL 8.8.8.8 4 packets trans	milted, 4 received, 0% packet loss, time 3004ms

GVR Cloud Connectivity Test

If required, cloud connectivity can be tested as follows:

- 1 Select Outside Connectivity.
- 2 Click Start.
- **3** Select the test result in "Results" section.

Figure 5-47: GVR Cloud Connectivity Test

Network Test		- Audio Video Test
Simple Ping		A/V Test side A
✓ Outside Connectivity		A/V Test side B
🔿 Legacy 💿 AWS IOT 🔿 Manual		Hardware Test
DNS		
► Start		USB Test
Results		
	Outside Connectivity Test: aatnf1k6u6	Ssn-ats.iot.us-east-1.amazonaws.com:8883 Success
	Outside Connectivity Test: cfvuav3n0omj5	credentials lot us-east-1.amazonaws.com:443 Success
	Outside Connectivity Test: device-	download-prod.s3.amazonaws.com:443 Success
	Outside Connectivity Test prod i360	device fileupload.s3.amazonaws.com:443 Success

DNS Test

If required, DNS configuration can be tested as follows:

- 1 Select DNS.
- 2 Click Start.
- **3** Select the test result in the Results section.

Figure 5-48: DNS Test

An Network Test		🖵 Audio Video Test
Simple Ping		A/V Test side A
Outside Connectivity		A/V Test side B
✓ DNS ► Start		Hardware Test
		USB Test
i≣ Results		
	DNS Test: device.sand	box.gilbarco.com Success
	DNS Test: registration.sar	ndbox.gilbarco.com Success
	DNS Test: transfer.sand	

Note: Networking tests can be performed simultaneously by selecting all of them and then clicking **Start***.*

Audio Video Test

If required, Omnia audio/video can be tested as follows:

- 1 Select A/V Test side A/B.
- **2** Set the Test Audio Volume.
- **3** Set the Test Duration.
- 4 Click Start.
 - Notes: 1) If Idle/Busy loops videos are playing during the A/V test, the test may not complete properly. Disable the Applause Media System before starting the A/V test, and re-enable it again after the test is complete.
 - 2) After the A/V test, with the Applause Media System disabled, the unit displays the CRINDBIOS Idle screen.
 - 3) When running the A/V test on one side of the dispenser (side A/side B), the display on the other side shows either a black blank screen or POS screen.
- 5 Check if the test is running in the Results sections and the sample audio/video is playing.
- 6 The test can eventually be stopped by clicking Stop in Results section.

Diagnostic	
& Network Test	C Audio Video Test
Simple Ping	✓ AV Test side A
Outside Connectivity	AV/ Test aide B Test Audio Volume
DNS	5% Test Duration 2 min
	Running Hardware Test
	USB Test
i≣ Results	
	A/V Test side A is running Stop Test

Note: A/V test controls both sides and stops all video playing even if test is performed on a side only.

IMPORTANT INFORMATION

Do not forget to re-enable the Applause Media System if you disabled it intentionally before running the audio/video test.

Figure 5-49: Audio Video Test

7 If the sample audio/video is not playing, check errors in the Results section.

Figure 5-50: Audio Video Test in Error

Results		
	AIV Test side A: Error: UPI/I communication failure. Please check cables and configurations	
	ArV Test side B: Error: Error while switching video source. Please check cables and configurations	

Hardware Test

This test group is dedicated to check hardware status on Omnia board.

USB Test

This test will check status of USB HUBs trying to detect devices connected to USB ports. It will try to detect device type for each port.

Figure 5-51: USB Test

DNS		I Hardware Test	
		✓ USB Test	► Start
i≣ Results			
	USB TEST Connected Ext	ternal Devices:	
Port 1	•~•	rt 3 Port 4	Port 5
	Port 1	Details	
	—	[Generic] USB3.0 Card Reader	

Viewing and Testing Sniffer, Certificates, and Serial Connection

Before completing registration, The AWS IoT URLs must be set up prior to software upgrades and any attempt to register with Insite360 through AWS. Ensure that network rules are done by the customer IT department or MNSP provider. Registration will fail if the network rules are not set up. Refer to the Pre-Installation Checklist on page 3-2 for a complete list of network rules.

Note: Omnia must be connected to NTP Servers to sync time.

To view, modify, and test current Insite360 Settings, proceed as follows:

1 Select the **Insite 360** tab on the left sidebar.

Figure 5-52: Selecting the Insite 360 Configuration

configurator 🖌 Setup Wizerd			Thu, 18 Nov 2021 03:04:09 pm GMT+00:00 & Adv
Insite 360 Configuratio	p		
al Settings			
Settings Registration			Insite 360 Actions
General Configuration			🗳 Check Sniller
roxy			🛷 Check Certificate
GVR ID	177774	-	Check Serial
Omnia Nickname	Omnia_new_RTC	~	
Dormant Enabled			
Incremental Logs	2		
Download Logs Every (mins)	30	~	
Serial Cable Beep Alert Enabled (Zmodern/RTP)			
PUMP Configuration Settings			
Two-Wire Money Mode	5 Digits Money Mode (Default)	*]	
Money Decimal Position	X.xx (Default)	~	
PPU Decimal Position	X.xxx (Default)	~	
CRIND Configuration Settings	·		
Barcode Scanner Side A present	o		
Printer Side A present	2		
Barcode Scanner Side 8 present			
Discolo Schnier Sole present Printer Side B present			

2 Check the **ZModem** connection.

Figure 5-53: Checking Serial Interface Connection

Omnia configurator 🗲 S	Nord	Ô Tue, 07 May 2024 05:41:05 pm GMT+00:00 ▲ Admin +
₩ Home ≁ General Settings	Insite 360 Configuration	
C Applause	Settings Registration	Insite 360 Actions
Insite 360 RTP Proxy Cf. Tools	GVR Cloud Registration Registered to AWS to T Corel 🛩	Check Confler Check Conflicate Check Conflicate Check Simil
Gritode	Replaned of Ans of Loter V Ren 0 Ren 0 Ren AVS Optimum Connection Connection Charles Conn	

In case of failure, an error message is displayed. Note: For troubleshooting information, refer to "Troubleshooting" on page 7-1.

Figure 5-54: ZModem Failure Message



3 Check Sniffer connection using CLOUD Utility.

Figure 5-55: Checking Sniffer

Omnia configurator	Micard .			Ø Tue, 07 May 2024 05:39:48 pm GMT+00:00 ▲ Admin +
n≇ Home ↓ General Settings	Insite 360 Configuration			
C Applause	Settings Registration			Insite 360 Actions
Insite 360 RTP Prov CP Tools	GVR Cloud Registration	o AWS IoT Corel ✓		Check Snifler Check Conflicate Check Senial
رية roos & Disprostic	Tech (0		~	
	Check AVIS Galeway Connection De Register from Cloud Creed Serie Number	Passive sniffer connected to pump	×	

In case the cloud connector cannot connect to Insite360, check the expiration date of the certificate.

Omnia configurator	whap Woord		
₩ Home → General Settings	Insite 360 Configuration		
⊊ Applause ● Inste 360	Settings Registration	\checkmark	Insite 360 Actions
RTP Proxy Cell Tools	GVR Cloud Registration Registered to	Certificate Info: Certificate	
& Disgnostic	Tech ID	MD5: 844876a7b3bff76f419482d8e6a2f Certificate UID: Not Applicable for AWS IoT Certificate Expire	
	Oheck AWS Gateway Connection One De-Register from Cloud	Before: May 7 16:18:37 2024 GMT Certificate Expire After: Dec 31 23:59:59 2049 GMT CA	
	Omna Seraf Number	Certificate Expire Before: May 26 00:00:00 2015 GMT CA Certificate Expire After: Jan 17	
		00:00:00 2038 GMT	
		OK	

Figure 5-56: Check Certificate Message

In case of failure, an error message is displayed. Note: For troubleshooting information, refer to "Troubleshooting" on page 7-1.

Figure 5-57: Passive Sniffer Failure Message

nsite 360 Configuratio	n		
Settings Registration			Insite 360 Actions
General Configuration			🖋 Check Serial
GVR ID Omnia Nickname Incremental Logs Download Logs Every (mins)	Passive sniffer not connected to pump	~ ~	
PUMP Configuration Settings	ок		
Two-Wire Money Mode	5 Digits Money Mode (Default)	*	
Money Decimal Position	X xx (Default)	*	
PPU Decimal Position	X.xxx (Default)	•	

Registering Omnia to Insite 360 Forecourt

If AWS IoT Core is available (network rules in place locally), the message "AWS IoT gateway is available" is displayed in the UI.

- Notes: 1) The AWS IoT URLs must be set up prior to software upgrades and any attempt to register through AWS. Ensure that network rules are done by customer IT department or MNSP provider. Registration will fail if not set up. The minimum software version of V05.06 or later must be loaded prior to AWS registration.
 - 2) Omnia must be connected to NTP Servers to sync time.
 - 3) Refer to the Pre-Installation Checklist on page 3-2 for a complete list of network rules.

To register Omnia to Insite360 Forecourt, proceed as follows:

1 From the Insite 360 Configuration page, click the **Registration** Tab.

Figure 5-58: Insite 360 Configuration - Registration (AWS IoT Gateway)

← → C ▲ Not secure ht	tps://10.80.32.208:10001/index#/dynamicCo	onfiguration	r \star 😩 :
Omnia configurator 🖌 Setu	ip Wizard		Image: Thu, 13 Jan 2022 08:11:36 am GMT-05:00 ▲ Admin →
♣ Home戶 General Settings	Insite 360 Config	guration	
🖵 Applause	Settings Registration		Insite 360 Actions
Insite 360 RTP Proxy	GVR Cloud Registration		Check Sniffer Check Certificate
In Tools		et Registered X e gateway is available.	
& Diagnostic	One Time Password		
	Tech ID	A20005	*
	Register to Cloud! Omnia Serial Number	IN180900045	•
	Са	ncel Save	

Note: To gain access to the one time password tool "I360 Device Pre-Registration" complete the mandatory tech training on "AWS OTP Registration module" in SABA.

2 Sign in to the ASC App at: https://mymessage.gilbarco.com/SMS/ext/ascApp/login/login.jsp.

Registration to the AWS IoT Gateway requires a generated One-time Password (OTP) to be obtained from the Authorized Service Contractor ASC App.

			× - □ >
🗘 Omnia Admin 🗙 😹 ASC			v - u ,
← → C ▲ Not secure vm-cc-smsa:	xt03:8080/SMS/ext/ascApp/login/login.jsp		॰ 论 ★ 😩
	ASC App Login	C GEBARCO VEEDAR-ROOT	
	User Name		
	Password		
	_		
	Remember me 🗹	Sign in	
	In case of login issues, errors or other		
	Systems Team at Gilbarco by e-mailing gso	.ser.svcsystems@gilbarco.com	
	Unauthorized access is	prohibited.	

Figure 5-59: ASC App Login

3 Select **I360 Device Pre-Registration** from the ASC App home page.

Figure 5-60: I360 Device Pre-Registration



Note: The device serial number required for the ASC App is listed on the Insite 360 Registration page for the dispenser. It is NOT the Device PPN used to log in to the UI.

	+		v - o x
← → C ▲ Not secure M Omnia configurator	Hps://10.80.32.208:10001/index#/dynamicConfiguration		😢 ★ 😩 : 🚯 Wed, 05 Jan 2022 01:14:04 pm GMT-05:00 🛛 🛓 Admin +
# Home			
	Insite 360 Configuration	on	
C Applause	Settings Registration		Insite 360 Actions
 Insite 360 	GVR Cloud Registration		
RTP Proxy		🖌 Check Certificate	
GP Tools		Not yet Registered × AWS IoT Core gateway is available.	
& Diagnostic			
	One Time Password		
	Tech ID	A20005	
	♣) Register to Cloud!		
	Omnia Serial Number	IN180900045	
		Cancel Save	-
https://10.80.32.208:10001/index#			

Figure 5-61: Omnia Registration Serial Number

4 At the ASC App, fill in the serial number for the device or devices that you want to register. Click Add Next for additional devices. *Note: You can add up to 20 devices per OTP.*

Figure 5-62: Adding Additional Devices

Step 1:	Enter Serial N	Number		
	Serial Number *			
Ē	serial1			
â	serial2	×		

IMPORTANT INFORMATION

The Omnia serial includes prefix letters; you MUST capitalize these letters when entering them into the serial number field and ensure that there are no spaces before and after the serial number or the OTP process will fail.

- **5** Ensure that you enter the correct serial number.
- 6 Click **Done** when all the serial numbers are entered.
- 7 An SMS message with the OTP is sent to the technician's registered phone number. One OTP can be used to register up to 20 devices, and the OTP is valid for 30 minutes.

Figure 5-63: SMS Message for OTP

		vm-cc-smsaxt03:8080 says	Signed in as PCANTARINI1 -
BACK	In case of logi at Gilbarco by	One Time Password has been sent to your registered cell phone nur	agrico in 221 on 174 and 1
	Step 1: En	Number *	

8 In the Insite 360 Configuration - Registration Tab, enter the OTP into the **One Time Password** field. **9** Enter **Tech ID** and click **Register to Cloud!**.

Figure 5-64: GVR Cloud Registration - AWS IoT Gateway Available

-	https://10.80.32.208:10001/index#/dynamicConfiguration	n	Ŕ	* 🛎 :
Omnia configurator 📑	Setup Wizard	🕚 Thu, '	13 Jan 2022 08:14:57 am GMT-05:00	🛔 Admin 🤜
 Home General Settings 	Insite 360 Configura	tion		
	Settings Registration		Insite 360 Actions	
Insite 360	GVR Cloud Registration		🖌 Check Sniffer	
RTP Proxy			 Check Certificate 	1
Tools	Not yet Regis AWS IoT Core gatew			
	One Time Password	RjpW-1Ep 🖌		
	Tech ID	A20005		
	L	A20005		
	N Desistanta Olaval			
	Register to Cloud!			
		IN180900045 🖌		

Figure 5-65: Registration Successful Message

\checkmark
Registered successfully to i360
ок

10 Upon successful registration, refresh the page to update the screen. The Insite 360 Configuration page displays a green message "Registered to AWS IoT Core" and the addition of a "De-Register from Cloud" button.

Omnia configurator 😽 S	rtup Wizard			
# Home				
≯ General Settings	Insite 360 Configuration			
🖵 Applause	Settings Registration			Insite 360 Actions
 Insite 360 	GVR Cloud Registration			
RTP Proxy				Check Certificate Check Serial
Cir Tools		Registered to AWS IoT Core! 🗸		Uneck Serial
& Diagnostic	Tech ID	A20005	~	
		10000	•	
	+0 Check AWS Gateway Connection			
	C+ De-Register from Cloud			
	Omnia Serial Number	IN180980046	~	

Figure 5-66: GVR Cloud Registration - Registered to AWS IoT

Figure 5-67: Connection Successful to AWS Message

Omnia configurator 🔰 S	ehap Wicard		© Tue, 07 May 2024 05:38:42 pm GMT+00:00 ▲Admin +
₩ Home	Insite 360 Configuration		
🖵 Applause	Settings Registration		Insite 360 Actions
Insite 360 RTP Proxy CP Tools	GVR Cloud Registration	ved to	Check Souther Check Control Check Control Check Control Check Control
▲ Diagnostic	Tech ID		
	Check AVIS Galeway Connection Check Royaler from Claud Cons Serie Numer	Success! Succession and the second se	

11 Refresh the page to update the screen.

The following are the top reasons for AWS Registration failure:

- 1 URL rules not set up properly at the site's network.
- 2 Serial numbers were entered into the ASC app incorrectly.
- **3** Date and Time on Omnia or SSoM is incorrect or not in sync. *Note: Omnia must be connected to NTP Servers to sync time.*
- 4 Network Connectivity (physical, and network configuration).
- **5** If Insite360 site is not provisioned properly, registration will fail.

Figure 5-68: AWS Failed Connection Error Message

	(\times)
	Error!
F	Failed connection test to AWS gateway: Failed to connect to S3 server, check internet connectivity.
	ок

Insite360 Auto-Registration

IMPORTANT INFORMATION

If the customer already has an Insite360 contract, you MUST manually register the device. DO NOT leave the site without manually registering. The Omnia V05.08 software introduces the AWS-IoT feature allowing Omnia to make attempts to automatically register against AWS IoT if there is no contract. For the auto-registration feature to work, the site must have the required URLs whitelisted, refer to the table Pre-Installation Checklist on page 3-2.

The GVR ID and Primary DNS must be entered by the technician for auto-registration to work properly.

1 If the Fueling Position field is updated remotely, a message "This field was automatically updated via cloud" is displayed (see Figure 5-69).

Omnia configurator 🛛 🗲	Setup Wizard		♦ Thu, 26 Oct 2023 06:55:19 pm GMT+00:00 ▲ Admin ~
🖨 Home	General configuration		
⊁ General Settings	Select Dispenser Model	Encore	~
Insite 360	Select Payment Type	• M7	~
C Tools	Select Dispenser Type	Dual side	~
& Diagnostic	Select TwoWire Connection Type	GENERIC CRIND	~
	Select Pump Baud Rate	DEFAULT (5787)	~
	Fill in Dispenser Serial Number	This field was automatically updated via cloud	
	Side A Fueling Position	0 1	
	Side B Fueling Position	0 2	
	Select Pump Connection Type	Zmodem	~
	Pump 2-Wire ID Side A (1-16)	3	
	Pump 2-Wire ID Side B (1-16)	2	

Figure 5-69: Fueling Position Updated By Insite360 Message

2 If GVR ID is updated remotely from Insite360, the message "GVR ID was automatically updated via cloud" is displayed.

Omnia configurator 📝	Setup Wizard			S Thu, 26 Oct 2023 06:58:10 pm GMT+00:00	🛔 Admin 👻
# Home					
🗲 General Settings	Insite 360 Configuration				
Insite 360	Settings Registration			Insite 360 Actions	
G≇ Tools	General Configuration			🛷 Check Sniffer	
a Diagnostic				🖌 Check Certificate	
		*GVR ID was au	tomatically updated via cloud.	🕜 Check Serial	
	GVR ID	266906	~		
	Site Name	NOT_SET	~		
	Site Address	NOT_SET	~		
	Omnia Nickname				
	Dormant Enabled				
	Incremental Logs				
	Download Logs Every (mins)	30	•		
	Serial Cable Beep Alert Enabled (Zmodem/RTP)				

Figure 5-70: GVR ID Updated Message

3 When the Omnia device is auto-registered, the message "Automatically registered to AWS IoT Core!" is displayed.

Figure 5-71: AWS IoT Core Message

Omnia configurator 📑	Setup Wizard		Thu, 26 Oct 2023 06:58:46 pm GMT+00:00 & Admin -
🖨 Home			
General Settings	Insite 360 Configurati	lon	
Insite 360	Settings Registration		Insite 360 Actions
I Tools	GVR Cloud Registration		🖌 Check Sniller
& Diagnostic	Automatically	registered to AWS IoT Core! ✔	Check Certificate Check Serial
	Tech ID	A20005 🗸	
	Check AWS Gateway Connection De-Register from Cloud	l i	
	Omnia Serial Number	IN190600039	

Omnia Home Page

Omnia home page provides a quick overview of the software installed, hardware version revision, date and time, Up time, Multiple Access Control (MAC) address, and PPN.

After successful login, the Omnia home page opens (see Figure 5-72).

Figure 5-72: Home Page - Showing Applause Media and Pump Status

Omnia configurator 🔰 Setup	9 Wizard				O Tue, 24	Sep 2024 11:46:02 am GMT-04:00 DST	f 🔺 Admin -
# Home	:8:	Firmware Version	•		Network status		
⊁ General Settings	:		-	-	UPM A reachable	•	-
C Applause	Factory Software Version	030103		몲	UPM B reachable	•	
Insite 360	Core-FWR[Build]	06.00.01-PROD.7833.1725534340			NTP Server reachable	•	
	Linux Kernel release	4.9.123-svn2223-PROD			Cloud status		
RTP Proxy	Installed Software hash	BEA609A8					
CP Tools				~	Configured Registered	•	
& Diagnostic		Applications Version	-		Connected to GVR Cloud Server	:	
		Applications version	•				
		Board Information	-		Applause status		
		board mormation	•	2 1	Configured	•	
				1	Operative	•	
					Pump status		
				_)	Operative	•	
				Show Pump Software Version:	•		
					W&M Dispenser Category sta	tus	
					Category: 3 (2024-09-11)		
				<u> 41</u> 4	CAT-3 Feature: Enabled		
			C Refre	esh Info			

Note: The Pump Status Panel is not displayed, if the "Pump Connection Type" is set to "None" in the General Settings Page.

Figure 5-73: Home Page - Encore Experience Installed

Omnia configurator 🛃 Setup 1	Weard						≜Admin -
# Home							
	Home						•
Insite 360	:::	-			Network status		
Open Apps		Firmware Version	•		UPM A reachable		
RIP Proxy				器	UPM 8 reachable		
Xspector Tool v2.1.3		Applications Version	•		NTP Server reachable	•	
GP Tools	&	Open Apps Version			Cloud status		
& Diagnostic		Open Apps version	•		Configured		
	App_NewsBreakMediaPlayer	2 1 22		A	Registered		
	NewsbreakSQA	2			Connected to GVR Cloud Server	•	
					Open Apps status		
		Board Information	-	0	License	•	
		board mornatori		💑	Keys	• •	
					Pump status		
				<u>_</u>)	Operative	٥	
				=•	Pump Software Version: Unavailable		
					W&M Dispenser Categor	r status	
				<u> 1</u> 2	Category: 2		
				00	CAT-3 Feature: Disabled		
			CReb				
			Uner				

Section	Tabs / Button
Setup Wizard button	Used for adding new configuration or importing existing configuration.
Firmware Version	Includes the following options: • Factory Software Version • Core-FWR[Build] • Linux Kernel release • Installed software hash
Applications Version	Includes the following options: • CloudApp version • ActivityMonitor version • Pumpproxy version • Crindproxy • Mediasyncclient • Mediamanager
Applause	 Includes the following options: Configured Operative - Connected to the Media content server. Note: This field is visible only when Applause multimedia system is enabled
Open Apps Version	Includes the following options: • List of installed Apps • List of OpenApps contents • List of OpenApps layout
Board Information	Includes the following options: • Board Version • Board Part Number • MAC Address • PPN • Up Time

The Omnia home page includes the following:

A status images group with Networks status, CloudApp status, MultimediaApp, and Pump Status is displayed.

Notes: 1) OpenApps status data is shown only if related applications are configured/activated.

2) Pump status is shown only for Door Sensor, where the pump is connected via RTP protocol.

The page also includes a Meters button to display self-updating meters with CPU Average Load, CPU Temperature, and Memory Load.



a configurator 🔰 Setup	Wizard				© Tue, 24 S	ep 2024 11:49:33 am GMT-04:00 DST 🛛 💩 A
710	:	Firmware Version			Network status	Show Met
neral Sottings	•				UPM A reachable	•
lause	Factory Software Version	030103		몲	UPM B reachable	•
360	Core-FWR[Build]	06.00.01-PROD.7833.1725534340			NTP Server reachable	•
	Linux Kernel release	4.9.123-ovn2223-PROD			Manual adaptation	
Praxy	Installed Software hash	BEA609A8			Cloud status	
				•	Configured	•
ostic					Registered	•
		Applications Version	•		Connected to GVR Cloud Server	•
		Board Information			Applause status	
				1	Configured	•
				2	Operative	•
					Pump status	
				_)	Operative	•
				Show Pump Software Version:	*	
					W&M Dispenser Category statu	\$
					Category: 3 (2024-09-11)	
				<u> 41</u> 4	CAT-3 Feature: Enabled	
			C Retro	sh Info		

Figure 5-75: CPU Average Load, CPU Temperature, and Memory Load

Omnia configurator 🛛 🗲 S	letup Wizard					O Tue, 24 Sep 2024 11:50:42 am GMT-04:00 DST ▲Adm
 Home <i>↓</i> General Settings 		Firmware Version	•	_	Network sta	
T Applause	Factory Software Version Core-FI/R[Build]	030103 06 00.01-PROD.7833 1725534340		格	UPM B reachable NTP Server reachable	CPU Temperature
Insite 360 RTP Prexy	Linux Kernel release	4.9.123-svn2223-PR0D			Cloud state	() () () () () () () () () ()
2 Tools	Installed Software hash	BEA609A8		4	Configured Registered	48.4 °C
& Diagnostic		Applications Version	-		Connected to GVR Cloud Se	CPU Average Load (last 15 minutes)
		Board Information	-		Applause sta	
į				E	Operative	🏓 🐂 🦊
					Pump state	30%
				<u>_</u>)	Operative	Memory Load
				Show Pump Software Version:	*	
					W&M Dispenser Cat	205
				<u> 4</u>	Category: 3 (2024-09-11) CAT-3 Feature: Enabled	2019
ve/10.00.32.42-2001.6x4w#			S Refres	s info		

1 If a reboot is scheduled, a button shows the remaining time to reboot and enables the user to reboot the board immediately. The label refreshing time is 1 min.

	mnia configurator 🦩 Setup W	vizard reboot scheduled in 0.02	22 Reboot Now		() Tue, 02 Mar 2021	12:58:47 pm GMT+01:00 🛔 Admin
Scheduled	General Settings	lome	~			æ
	Applause		Firmware Version		Network status	
		•			UPM A reachable	•
	RTP Proxy	Factory Software Version	040501	56	UPM B reachable	•
Button 🧹 🖉	' Tools	Core-FWR[Build]	04.09.00~c-PROD.7028.1614176747		NTP Server reachable	•
	Diagnostic	Linux Kernel release	4.9.123-svn2115-PROD			
	Diagnosite	Installed Software hash	7476C182		Cloud status	
					Configured	•
					Registered	•
			Applications Version	•	Connected to GVR Cloud Serve	r O
			Board Information		Applause status	
			Board Information	Ť Pi	Configured	•
					Operative	•

Figure 5-76: Status with Reboot Banner

2 If there is something wrong in the configuration file (due to a corruption or an incorrectly configured parameter) a popup will be displayed advising the user about the problem; a related banner is displayed on top of all pages until the problem is solved.

Figure 5-77: General Settings: Warning

Omnia configurator	Setup Wizard Warning: There is a mi	ssing or incorrect	parameter(s) on the "General Settings" page.		() Mon, 01 Mar 2021 11	:22:36 am GMT+01:00	🛔 Admin 👻
# Home							
📕 General Settings	Home						•
C Applause		Firmy	vare Version		Network status		
Insite 360				_	UPM A reachable	•	
Ce Tools	Factory Software Version			몮	UPM B reachable	•	
& Diagnostic	Core-FWR[Build]				NTP Server reachable	•	
	Linux Kernel release		Warning: There is a missing	or	Cloud status		
			incorrect parameter(s)		Configured	•	
			on the "General Settings"		Registered	•	
		Applica	page. Please review and		Connected to GVR Cloud Server	•	
		Board	correct as necessary!		Applause status		
					Configured	•	
			ок		Operative	•	
			O Refeas no				

3 At every login, the system compares the date/time on Omnia board with the local (user logged in computer) time. If the date/time information differs by more than 12 hours, a popup is displayed and a button on the popup redirects the user to the date/time configuration form. User can skip the date/time check and configure these controls later from the Tools page or by clicking the time banner on the top right of all pages.

Omnia configurator 🛛 🗲 S	Setup Wizard		() Mon, 01 Mar 2021 1	1:41:32 pm GMT-12:00 🛛 🛔 Admin 👻
 Itome <i>▶</i> General Settings 	Home			
Applause Insite 360	Firm	ware Version	Network status	
요* Tools & Diagnostic	Factory Software Version Core-FWR[Build]	() F		• •
	Linux Kernel release	Date Time Warning Dispenser date and PC date differ by more than 12 hours	Cloud status Configured Registered	:
	Applic	Please check if Omnia date and time are correct	Connected to GVR Cloud Server	•
	Boar	Set Date/Time	Configured Operative	•
		Later		

Figure 5-78: Date Time Warning

Note: The warning is displayed in case of a mismatch between local date/time and Omnia date/time. If this banner appears, check the date and time on the PC that is connected.

4 If the cable to the pump is disconnected, a banner is displayed on the top of all pages.

Figure 5-79: Serial Cable Disconnected Banner

ne							
eral Settings	Home						
e 360	:	Firmware Version		Network status			
n Apps	:			_	UPM A reachable	•	
s	Factory Software Version	040200		器	UPM B reachable	0	
nostic	Core-FWR[Build]	05.00.00~d-DEVEL.7182.1621495667			NTP Server reachable	•	
	Linux Kernel release	4.9.123-svn2115-DEVEL			Cloud status		
	Installed Software hash	F6369C55					
				~	Configured	•	
		Applications Version	-	•	Registered Connected to GVR Cloud S	erver O	
					Open Apps sta	tus	
		Open Apps Version	•		License	•	
				&	Keys	• •	
		Board Information	•		Pump status	1	
					Operative	•	
				U	Serial cable disconnected		

Status Icons and Virtual LEDs

The icons and virtual LEDs indicate Network, Cloud, Open Apps, and Pump Status. The meaning of the icons and definitions for status colors are described in the table "Network – Cloud – Media – Open Apps - Pump Status" on page 5-56. In the case of Figure 5-80 "Open Apps Status LEDs" shows a status of all Green LEDs.

Notes: 1) Open Apps Status is displayed only in the Encore Experience configuration.
2) Pump status is not displayed when the "Select Pump connection type" is set to "None" in the General Settings page (see Figure 5-14 on page 5-8).

Figure 5-80: Open Apps Status LEDs

Omnia configurator 📑 Set	up Wittand						&Admin -
# Home							@
≱ General Settings	Home						•
Insite 360	-						
Open Apps		Firmware Version	•		Network status		
				•	UPM A reachable	•	
RTP Proxy		Applications Version	•	器	UPM 8 reachable NTP Server reachable		
Capector Tool v2.1.3					NTP Server reachable	•	
GP Tools	&	Open Apps Version	•		Cloud status		
& Diagnostic		open ppe tersion	-		Configured		
	App_NewsBreakMediaPlayer	2122		A	Registered	•	
	NewsbreakSQA	2			Connected to GVR Cloud Server	•	
					Open Apps status		
		Deard Information					
		Board Information	•	&	License Keys		
				~~	neya	•	
					Pump status		
					Operative	0	
				<u>=</u>)	Pump Software Version: Unavailable		
					W&M Dispenser Category	status	
				<u> </u>	Category: 2		
				-1-	CAT-3 Feature: Disabled		
			(2) Fielenth				
			U Hanna				

Network – Cloud – Media – Open Apps - Pump Status

Status Screen			Description			
	Network status		Green Network Icon = Connectivity OK. Red Network Icon = Connectivity problems. Black Network Icon = Programmed as a single-sided dispenser, showing only Side A status.			
	SIDE A reachable	•	Green LED = Omnia can connect to SPOT/NTP Server.			
<u> </u>	SIDE B reachable	0	Red LED = Omnia cannot connect to SPOT/NTP Server.			
00	NTP Server A reachable	0	Black LED = (Not enabled) Configured to Disable NTP, in which Set Date and Time Manually.			
	WIP Server A reachable	C C	NTP (National Time Protocol) Server A reachable. Note: Omnia must be connected to NTP Servers to sync time.			
			Green Cloud Icon = Cloud OK. Red Cloud Icon = Cloud problems.			
	Cloud status		Black Cloud Icon = Cloud package not installed. Configured: Green LED = Cloud application is configured			
	Configured	0	Red LED: Cloud application is conligured.			
	Registered	0	Black LED = Cloud package not installed.			
	Connected to GVR Cloud Server	0	Registered : Green LED = Omnia registered to Insite360.			
			Red LED: Omnia NOT registered to Insite360 Black LED = Cloud package not installed. Connected: Green LED = Omnia is able to reach Insite36 server. Red LED: Omnia is not able to reach Insite36 server. Black LED = Cloud package not installed.			
	Applause status	•	Green Applause Icon = Media application OK. Red Applause Icon = Media application problems. Black Applause Icon = Media application package not installed.			
	Operative	•	Configured:			
			Green LED = Media application is configured (applause). Red LED = Media application is not configured. Black LED = Media package not installed. Applause server reachable: Green LED = Media application is configured (applause). Red LED = Media application is not able to reach Applaus server. Black LED = Media package not installed.			
			Green Open Apps Icon = Open Apps OK. Red Open Apps Icon = Open Apps problems.			
	Open Apps status					
0	License	•	License: Green LED = License is active.			
	Keys	0 •	Red LED = License is not active.			
		OAINT-public				
			Keys: Green LED = At least one key is installed. Red LED = No keys are installed.			
			The list of installed keys can be shown by clicking on the down-arrow right to the Keys Light.			

tus Screen			Description
Pump status			Green Pump Icon = Pump communication OK.
Operative	•		Yellow Pump Icon = Communication problems that can be
Show Pump Software Version:			recovered without intervention. Red Pump Icon = Pump communication Down.
Pump status			Operative: Green LED = Pump connection OK.
Operative Operative	•		Yellow LED = Connection problems that can be recovered
The service was unable to	connect to	the host	without intervention.
			Red LED = Pump communication Down.
	Pu	mp Software Version	
	CRC	E89C	If pump connection works, select the blue arrow to view th
Pump status	DSS	AE28E3 94FF27 A1B5FE E850C3 C519FF BB9B0B 5126	software version. In case of problems, an error message is displayed.
Operative	Date	1 17 2020	
Show Pump Software Version:	Version	05-003	
W&M Dispenser Catego Category: 3 (2024-09-11)	ry status		Weights&Measures Dispenser Category Status - Indicates the date when the dispenser was changed to Category 3.
CAT-3 Feature: Enabled			CAT-3 Feature: Enabled - Indicates that the Category 3
CAI-5 Feature. Enabled			feature is enabled from Insite 360.
W&M Dispenser Categ	ory statu	s	CAT-3 Feature: Disabled - Indicates that the Category 3 feature was disabled from Insite360. In this case, the
Category: 2			dispenser is currently Category 2.
CAT-3 Feature: Disabl	a.d		

This page is intentionally left blank.

6 – Omnia Maintenance Through USB

This section guides the service technician through this feature, from the USB flash drive setup to the LED glowing sequence and its significance.

Introduction

Omnia USB Maintenance is a functionality that allows the ASC to perform the following operations using a well-formatted USB flash drive:

- Software Update/Media Content Upload
- Log Retrieval
- Configuration retrieval
- Network Restore

Requirements

The following items are required for Setup Via USB Flash Drive:

- USB Flash Drive (hereafter referred to as "USB drive") with at least 2GB free
- PC/Laptop
- Text Editor tool (e.g. Notepad++)

USB Drive Preparation

Plug USB drive into your PC/Laptop and create a folder tree as shown in the following figure:

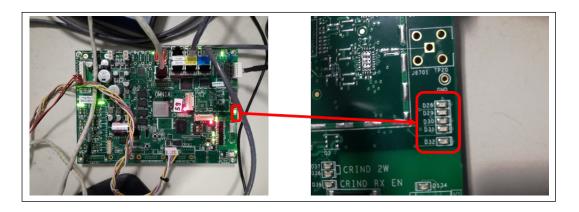
Figure 6-1: Folder Structure

/ gvr cfg cfg logs pkgs At this level, create a file OmniaOp.json (in next slides will be explained how to populate it)	Image: Product of the state of the stat
Image: Share Share Verv Image: Share Share Verv Image: Share Verv Image: Share Image: Share Image: Share Image: Share	Image: Source

LEDs Glowing Sequence

This section provides information about sequence in which the LEDs on Omnia board glow and its significance. The sequence in which LEDs glow signify different USB Maintenance operations.

Figure 6-2: LEDs (from D28 to D32)



The following are the LEDs involved:

D32 (Red)

- Solid Red: Indicates that maintenance operation in progress.
- Blinking: Indicates that Error on USB/JSON format or Error on operation.
- Off: Indicates that maintenance completed with No Errors.

Note: DO NOT REMOVE USB drive when the status is 'Solid Red'.

D31 to D28 (Green)

- Slow Blinking: Indicates that related operation in Progress.
- Fast Blinking: Indicates that related operation completed with Error.
- Solid Green: Indicates that related operation completed with Success.

LED	Operation
D28	Reboot
D29	Retrieve Configuration/Reset Network
D30	Log Retrieval
D31	Packages Installation
D32	Maintenance In Progress/Formal Checks/Final Result

OmniaOp.JSON File Syntax

The OmniaOp.json script is a JSON syntax file that defines a sequence of maintenance operations. If the JSON syntax is not correct, the execution is not started (comments not included). The file must be populated with at least one of the operations as shown in the following figure:

Figure 6-3: Maintenance Operations

PACKAGE INSTALLATION	"Action": "InstallPackages"	Mandatory
	"Action": "RetrieveLogs"	Mandatory
LOG COLLECTION	"Logs": [<list>]</list>	Optional List of log types to be retrieved. Values can be: 'system', 'pci', 'cloud', 'media'. If not present all types are collected.
RETRIEVE CONFIGURATION	"Action": " RetrieveConfig"	Mandatory
RETRIEVE CONFIGURATION	"NetworkReset": True	Optional Reset of Omnia network configuration
	"Action": "Reboot"	Mandatory
REBOOT	"Time": MINUTES	Reboot time in minutes (>= 3)
	"Action": "Sleep"	Mandatory
NOP	"Time": SECONDS	Delay time in seconds

Note: The actions or parameters that are not supported are ignored.

The following figure shows the OmniaOp.json file content to perform all the operations:

Figure 6-4: OmniaOp.json File Content

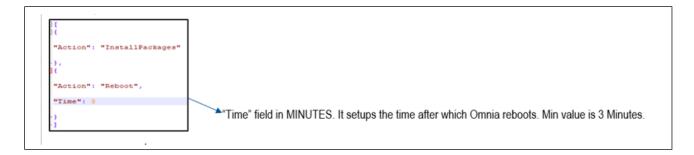
Г ,	
1	"Action": "InstallPackages"
},	
	"Action": "RetrieveLogs",
},	"Logs": ["system", "pci", "cloud", "media"]
{	
	"Action": "RetrieveConfig", "NetworkReset": True
},	HEUNDERDESEU . EEGE
{	"Action": "Reboot",
	"Time": MINUTES
),	
1	"Action": "Sleep",
	"Time": SECONDS
1 /	

Installing Packages

To install packages, proceed as follows:

- 1 Open **OmniaOp.json** file with a text editor (e.g. Notepad++).
- 2 Enter the time after which Omnia must reboot as shown in the following figure:

Figure 6-5: Entering Time After which Omnia Reboots



Note: The minimum value to be entered is 3 minutes.

- **3** Save the file.
- 4 Go to gvr/omnia/pkgs and load the packages to be uploaded (debians, archives).
- 5 Plug USB drive into Omnia board. Depending on the success or failure of the operations, LEDs start glowing as follows:
 - LED D32 goes Solid RED and LED D31 starts blinking slow.
 - LED D31 goes Solid GREEN, indicating that the operation is successfully completed.
 - LED D31 will start blinking fast, indicating that the operation failed.
 - LED D28 starts blinking slow and becomes Solid GREEN when the command is sent successfully (almost immediately).
 - LED D28 will start blinking fast, indicating that the operation failed.

If both operations are successful, LED D32 goes OFF. If one or more of the operations fails, LED D32 will start blinking together with the LED related to the failed operation.

- **6** Remove the USB drive.
- 7 Omnia will reboot in the time specified in step 2.

Checking Package Installation Report on the USB Drive

To view the package installation report, proceed as follows:

- 1 Insert the USB drive used to install packages on Omnia in your PC/Laptop.
- 2 Go to gvr\omnia\logs. Open the folder with the name of the Omnia PPN, as shown in the following figure:

Figure 6-6: Folder Named with Omnia PPN



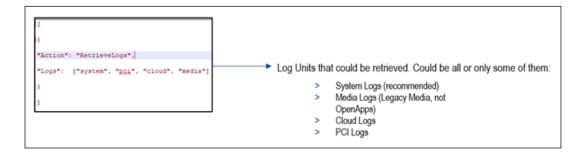
3 Open the file named "OmniaSession-YYYYMMDDhhmmss.txt". The file includes information about all of the operations performed during Maintenance session (until the USB drive was attached to the Omnia board). Check that file to validate the maintenance operations performed.

Retrieving Logs

To retrieve logs, proceed as follows:

- 1 Open **OmniaOp.json** file with a Text Editor (for example, Notepad++).
- 2 Specify the log units that you want to view, as shown in the following figure:

Figure 6-7: Log Retrieval



3 Save the file.

- **4** Plug the USB drive into the Omnia board. Depending on the success or failure of the operation, LEDs start glowing as follows:
 - LED D32 goes Solid RED and LED D30 starts blinking slowly.
 - LED D30 goes Solid GREEN, indicating that operation is completed successfully.
 - LED D30 will start blinking fast, indicating that the operation failed.

If the operation is successful, LED D32 goes **OFF**. If the operation fails, LED D32 will start blinking together with LED D30.

5 Remove the USB drive.

Log Retrieval Report and Checking Files on the USB Drive

To perform this operation, proceed as follows:

- 1 Insert the USB drive used to install packages on Omnia into your PC/Laptop.
- **2** Go to **gvr\omnia\logs**. Open the folder with the name of the Omnia PPN, as shown in the following figure:

Figure 6-8: Omnia PPN Log Folder



- 3 Open the file named "OmniaSession-YYYYMMDDhhmmss.txt" and all the log files retrieved in the operation zipped by Unit and Date, for example, "SYSTEM_YYYMMDD000000_YYYYMMDD235959.zip". The text file includes information about all the operations performed during maintenance session (until the USB is attached to Omnia).
- 4 Check the file to validate the maintenance operations performed.

Retrieving Omnia Configuration (NO Network Reset)

To retrieve Omnia configuration (NO Network Reset), proceed as follows:

- 1 Open **OmniaOp.json** file with a Text Editor (e.g. Notepad++).
- 2 Enter the information as shown in the following figure:

Figure 6-9: Omnia Configuration Retrieval - NO Network

[
E	
"Action": "RetrieveCo	nfig",
"NetworkReset": false	
)	
-]	

- **3** Save the file.
- **4** Plug the USB drive into the Omnia board. Depending on the success or failure of the operation, LEDs start glowing as follows:
 - LED D32 goes Solid RED, LED D29 starts blinking slowly.
 - LED D29 goes Solid GREEN, indicating that the operation is completed successfully.
 - LED D29 will start blinking fast, indicating that the operation failed.

If operation is successful, LED D32 goes OFF. If the operation fails, LED D32 will start blinking together with LED D29.

5 Remove the USB drive.

Retrieving the Omnia Configuration (YES Network Reset)

To retrieve the Omnia Configuration (YES Network Reset), proceed as follows:

- 1 Open the **OmniaOp.json** file with a Text Editor (e.g. Notepad++).
- 2 Enter the information as shown in the following figure.

Figure 6-10: Omnia Configuration Retrieval - YES Network

1
t -
"Action": "RetrieveConfig",
"NetworkReset": true
)
1

- **3** Save the file.
- **4** Plug the USB drive into Omnia board. Depending on the success or failure of the operation, LEDs start glowing as follows:
 - LED D32 goes Solid RED, LED D29 starts blinking slowly.
 - LED D29 goes Solid GREEN, indicating that the operation is successfully completed.
 - LED D29 will start blinking fast, indicating that the operation failed.

If the operation is successful, LED D32 goes OFF. If the operation fails, the LED D32 will start blinking together with LED D29.

5 Remove the USB drive.

Note: After this operation, Omnia external IP address will be no longer available. Omnia WebUI will be reachable only at the Internal IP Address 172.20.100.254 by connecting an Ethernet cable from your PC/Laptop to Service Port.

Retrieving the Omnia Configuration and Checking Files on the USB Report

To perform the operation, proceed as follows:

- 1 Insert the USB drive used to install packages on Omnia in your PC/Laptop.
- 2 Go to gvr\omnia\cfgs. Open the folder with the name of the Omnia PPN, as shown in the following figure:

Figure 6-11: Omnia PPN Folder Structure



- **3** Open the file named "OmniaConfig.txt". This text file contains all of the information about the Omnia configuration.
- **4** Open the file "OmniaSession-YYYYMMDDhhmmss.txt". This text file includes information about operations performed during the Maintenance session (until the USB drive was attached to the Omnia).
- 5 Check the files to validate the configuration and maintenance operations performed.

This page is intentionally left blank.

7 – Troubleshooting

Open the Omnia Home page to view the status of all connections at the bottom of the page.

Omnia configurator 🗲 Setup	+ Witzard				0	Tue, 24 Sep 2024 11:45:02 am GMT-04:00 DST	≜ Admin -
# Home	:::::::::::::::::::::::::::::::::::::::	Firmware Version	•		Network status		
				_	UPM A reachable	•	-
	Factory Software Version	030103		몲	UPM B reachable	•	
Insite 360	Core-FWR[Build]	06.00.01-PROD.7833.1725534340			NTP Server reachable	•	
	Linux Kernel release	4.9.123-svn2223-PROD					
RTP Proxy	Installed Software hash	BEA609A8			Cloud status		
CP' Tools				•	Configured	•	
💩 Diagnostic					Registered	•	
		Applications Version	•		Connected to GVR Cloud Server	r •	
		Board Information	•		Applause status	5	
		board mormation	•	Prop	Configured	•	
				60 °	Operative	•	
					Pump status		
)	Operative	•	
				Show Pump Software Version:	•		
					W&M Dispenser Catego	ory status	
					Category: 3 (2024-09-11)		
				<u> </u>	CAT-3 Feature: Enabled		
			© Refr	esh Info			

Figure 7-1: Omnia Home Page

Enabling and Disabling the Beeper Alarm from the Web UI

To enable or disable the beeper alarm from the Web UI, proceed as follows:

- 1 Log in to the Web UI.
- 2 Click **Insite 360** on the left menu.
- 3 Select or clear the check box for Serial Cable Beep Alert Enabled.
 Note: If you try to disable the alarm with the cable connected, the beep alert will re-enable automatically after approximately 5 seconds.
- 4 Click Save.

Figure 7-2: Enabling or Disabling the Beeper Alarm

nia configurator 📑	Sctup Wizard		Ø Fri, 11 Jun 2021 10:16:40 am GMT+02:00 & Admin
	Settings Registration		Insite 360 Actions
ieral Softma	General Configuration		🖸 Check Sniffer
lause 🖌			Check Certificate
	GVR ID	625011	 Check Serial
10 360	Omnia Nickname	Cennia_RiMo	
	Dormant Enabled	0	
	Incremental Logs		
	Download Logs Every (mins)	30	•
	Serial Cable Beep Alert Enabled		
	PUMP Configuration Settings	<u> </u>	
	Two-Wire Money Mode	5 Digits Money Mode (Default)	7
	Money Decimal Position	X xx (Default)	
	PPU Decimal Position	X.xxx (Default)	
	CRIND Configuration Settings		
	Barcode Scanner Side A present		
	Printer Side A present		
	Barcode Scanner Side B present Printer Side B present		
		Cance Save 4	

Enabling and Disabling the Beeper Alarm from Insite360

To enable or disable the beeper alarm from Insite360, proceed as follows:

- 1 Log in to Insite360.
- 2 Click Remote Management.

Figure 7-3: Selecting Remote Management

	Store M	Status		Туре Up	pdated	Store Id EXXON-TOWN PUMP		Status	Type		Seted 08-2021 18-01:42
	Errors					Packages					
Insite360 Help +		Users		Manage Impulse 2.0		Manage Impulse System	*	Site Manage	ement	&	Encore Experience
Settings •	Other										
ittings Account Management +	100	Dashboard									
Remote Software Update -	Insite360 Ir	nform									
Encore Experience		ternete management	<u> ح</u>								
Event Management Report Management		Remote Management	7								
Impulse -	Insite360 F	orecourt									
Remote Management											
		Manage POS Receipt	6	Manage CRIND Receip	pt 🛗	Manage Scheduled Tasks	2	Fuel Flow	Rate		
				inegiotered otoreo			-	Recepted for	onugeo		
	=	Site View	90	3 Registered Stores	1	100.0 Success Rate		0 Accepted Pa	ckages		Manage Speed Key
Network Dashboard	Insite360 Ir	astore									
	Quick Lir	nks									Want to know what's new? Click

3 Search for the Site ID.

4 Click VIEW MORE SITE DETAILS.

Figure 7-4: Selecting Site Details

() INSITE360									Robin (8)
Dashboards	Remote Management							1	
Network Dashboard	Select Multiple 177774	CO Clear					L Upload CSV	T Additional Filters 1/1	3 9 Map
Modules	• Status Alarms Store #	Store Name	Site Address	×	- Devices				
[m] Instore -	A	SHELL	1603 TEST DRIVE, GREENS	BORD, NC, U	Site Status				
Forecourt -					Site Status:	A			
🖨 Inform +					Alarms:	0 Unacknowledged			
Remote Management					Total Devices:	28			
Impulse +					Dispenser:	2 0			
Event Management					Last Update:	< 1 minute ago			
Report Management					Site Last Update Time:	06/14/2021 - 04:18:32			
Report Management Report Management Encore Experience					Site Time Zone:	America/New_York			
Remote Software Update +					Site Devices				
Settings					Cloud Gateway: SSOM	NOT CONNECTED			
Securgs					Model Number:	M14579A102			
Settings -					Serial Number:	527218170023			
					Alarms:	0 Unacknowledged			
Help ? Insite360 Help +					Fueling Positions:	5, 6			
🅐 Insitediou Help 👻						VIEW MORE SITE DET	TAILS REAL HS	TATUS	
					+ Site Details				
					+ Reports				
					+ Fuel Products				
					Truerrioudels				
	[4 4 1 ▶ ▶] 50 ¥ Re	ms per page						Displaying 1	1 - 1 of 1 items

- **5** Select the correct fueling position.
- 6 Select Cloud Gateway: Omnia.
- 7 Click Actions.
- 8 Click Settings Change.

Figure 7-5: Selecting Actions and Changing Settings

DINSITE360						Robin
	< Remote Mana Site Details	agement			_	
Network Dashboard	Site Information	Filters 0/7	Expand / Co	dapse 🗌 Select Multiple	Details Actions Event Logs Sche	dules Alarr
Madules	Gilbarco ID: 177774			X	There are no in-progress actions at this fi	ne.
Forecourt -	Site Name: SHELL				Please select an action	
🗎 Inform 🕶	Address: 1603 TEST DRIVE GREENSBORD, NC 27410	DISPENSER (91, 92) 5		Warm Start	File Update (1-step workflow) File Update (2-step process)	>
Remote Management	US	Serial Number: EN123457			File Update (Download)	>
Impulse +	Customer: GVR Cloud Payment Team 1234567899	Cloud Gateway: Omnia	CONNECTED	IN-USE	File Update (Install)	>
Report Management	Organization ID: 0 70005653975	Encore Pump		~	Reconnect	
🔹 Remote Software Update 🚽	70005654072	v more		IDLE	Refresh Device Configuration	
ettings	Financial ID: 0000000000 90000000163 1234567899	#91 Fueling Position			Refresh Status	
Account Management +	Last Update: <1 minute ago	Payment Terminal: FlexPay IV		IDLE	Request Log File from Device Security Change	>
ip	Site Last Update Time: 06/14/2021 - 04:18:32	Encore Experience		~	Settings Change	>
🕑 Insite360 Help 🗝	Site Time Zone: America/New_York	Type: OPENAPP		IN-USE	Software Reset	
		#92 Fueling Position			Un-Register Device	
		Payment Terminal: FlexPay IV		~	Warm Start	
		v more		IDLE	Other Actions	
		Encore Experience		~		

- **9** Set Serial Cable Beep Alert Enabled to True/False.
- 10 Click Submit.

Figure 7-6: Setting the Serial Cable Beep Alert

						Robin
	< Remote Mana Site Details	agement				i A
Network Dashboard	Site Information	Filters 0/7		Expand /	Collapse 🗌 Select Multiple	Details Actions Events Logs Schedules Alarms
Modules	Gilbarco ID: 177774	A	Encore Experience Type: OPENAPP		× DOWN	Media Busy Loop Delay (number):
Forecourt -	Site Name: SHELL					
👄 Inform =	Address: 1603 TEST DRIVE GREENSBORD, NC 27410		SPENSER (91, 92)		Warm Start	Media Source:
Remote Management	US	Seri	al Number: EN123457			Media Volume (number):
Impulse Event Management	Customer: GVR Cloud Payment Team 1234557899	0	Cloud Gateway: Omnia	CONNECTED	IN-USE	Media State Enabled:
Report Management & Encore Experience	Organization ID: 0 70005653975 70005654072	Encore Pump			IDLE	v Platform Log Level:
Remote Software Update + Settings	Financial ID: 0000000000 90000000163	#91 Fueling P	v more			Platform Log Suppression Enabled:
Account Management + Settings +	1234567899 Last Update: < 1 minute ago	0	Payment Terminal: FlexPay IV Type: M7	V IDLE		Platform Log Suppression Hours Duration:
	Site Last Update Time: 06/14/2021 - 04:18:32		Encore Experience		~	Pump Connection Type:
⑦ Insite360 Help →	Site Time Zone: America/New_York		Type OPENAPP V more		IN-USE	Pump Connection Type:
		#92 Fueling P	sition		0	Serial Cable Beep Alert Enabled:
		•	Payment Terminal: FlexPay IV Type: M7		idle 9	false
		0	Encore Experience		V INALISE	CANCEL CHI DULI SUBMIT

- 11 Click Events.
- **12** Verify that the actions are correctly submitted.

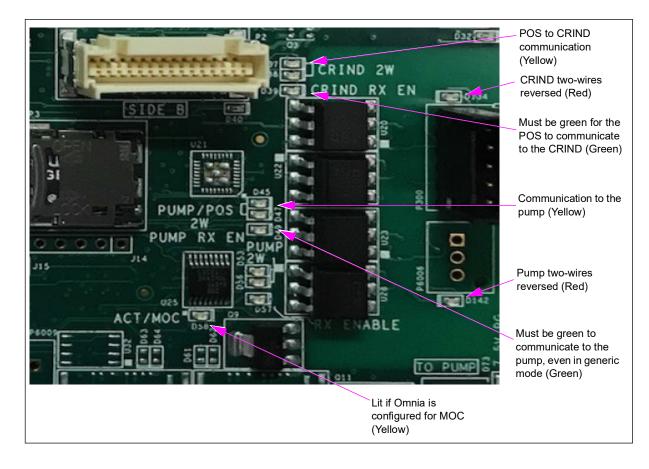
Figure 7-7: Selecting Events

🔘 INSITE360					Robin (
	< Remote Mana Site Details	agement		- 4 4	
Network Dashboard	Site Information	Filters 0/7	Expand / Collapse Select Multip	e Defuils Actions Events	ogs Schedules Alarn
Modules	Gilbarco ID: 177774	Encore Experience	× DOWN	Select Event Type:	~
Forecourt -	Site Name: SHELL	V IROP	2011A	information-ovent	06-14-2021 04-22-17 •
 Inform - Remote Management 	Address: 1603 TEST DRIVE GREENSBORD, NC 27410 US	DISPENSER (91, 92) Serial Number: EN122457	Warm Start	Settings Change	06-14-2021 04:22:16 •
Impulse - Event Management	Customer: GVR Cloud Payment Team	Cloud Gateway: Omnia		👗 Settings Change	view raw event data 06-14-2021 04-22-16 •
Report Management Secore Experience	1284567899 Organization ID: 0 70005653975 70005654072	Encore Pump Type PON	IDLE .	Command Sent by: robin.moret Serial Cable Reep Alert Enabled:	
🛕 Remote Software Update 🔹	Financial ID: 0000000000	v mon #91 Fueling Position	IULE	Component-status-event Platform - IN USE	06-14-2021 04:16:52 •
Settings Account Management + O Settings -	9000000163 1234567899 Last Update: <1 minute ago	Payment Terminal: FlexPay IV	IDLE	component-status-event Platform - DLE	06-14-2021 04:15:16
	Site Last Update Time: 05/14/2021 - 04:18:32	Encore Experience	~	Platform = DLE	06-14-2021 04:11:13 •
😧 Insite360 Help +	Site Time Zone: America/New_York	Type: OPDW2PP IN-USE		Pletform = DLL	06-14-2021 04:10:24 •
		#92 Fueing Position		Platform - IN-USE	06-14-2021 04:04:51 •
		Type INT v more	IDLE	Leartbeat success	06-14-2021 03:55:00 -
		C Encore Experience	Ph-LISF	< Newer	Older >

Connection Board Light Emitting Diodes (LEDs)

The following section of the board will help diagnose communication problems. The Omnia intercepts POS-to-Pump communication for non-Passport POS.

Figure 7-8: Connection Board



LED		Color	Function	Behaviour
CRIND 2W	D37	Yellow	POS to CRIND communication	Not lit or solid if using CRIND over IP (CoIP) or EMV. Blinks on when POS transmits to any CRIND via two-wire.
	D38	Yellow	CRIND to POS communications	Blinks on when CRIND A or B side replies to POS via two-wire.
CRIND RX EN (D39)		Green	CRIND receiver is enabled	Green after boot cycle.
D134		Red	CRIND two-wires reversed	Lit if two-wire connection is reversed.
PUMP/POS 2W	D45	Yellow	Pump Data between Omnia and POS.	Not lit or solid if POS is Passport. Blinks on when POS transmits to any pump via 2W.
	D47	Yellow		Not lit or solid if POS is Passport. Blinks on when pump A or B side replies to POS via 2W.

LED		Color	Function	Behaviour
PUMP RX EN (D49)		Green	Enables POS-to-Pump data on Omnia.	Green after boot cycle.
Omnia to PUMP 2W	D53	Yelow	Pump Data between Omnia and Pump.	For Passport, blinks after Omnia boots and tried to talk to the pump. For any other POS, it mimics D45.
	D56	Yellow		Blinks when pump responds to Omnia (Passport) or the POS (other POS). For any other POS, it mimics D47.
D142		Red	Pump two-wires reversed	Lit if two-wire connection to the pump is reversed.
RX ENABLE (D57)		Green	Pump-to-Omnia receiver is enabled.	Lit if PUMP RX EN and CRIND RX EN Green LEDs are lit.
ACT/MOC (D58)		Yellow	MOC or Generic	Lit if MOC. Following each reboot, the ACT/MOC LED will light briefly and then, after a few seconds, returns to the state programmed in the Omnia web configuration.

Pump Serial Cable Disconnect Alarm

This section explains the Pump serial cable disconnect alarm designed to diagnose and report the disconnection of the serial cable to the pump.

Omnia has an alarm that gives an audible and visible feedback in case the serial cable to the pump is left disconnected.

The system will report a disconnected pump serial cable in case:

- Omnia is registered to Insite360
- Pump type is rtp-serial or ZModem

The system reports the disconnection of the serial cable by:

- Audible beep
- Banner on Web UI
- Event sent to Insite360

The beep alarm is a repeated sequence of 3-second beep followed by 5 second of silence.

ASC can disable the audible feedback both from the Web UI and Insite360 by setting the "Serial Cable Beep Alert Enabled" parameter to false. The default value for the parameter is true. After the cable is connected, the beeper alarm is re-enabled automatically after approximately 5 seconds.

When the beep is disabled, the banner on the Web UI and Insite360 events remains visible to alert the ASC about the wrong serial connection.

PIP3 Connections

Ensure that the loopback jumper is in place on the B side of the PIP3.

Figure 7-9: PIP3 Loopback Connector

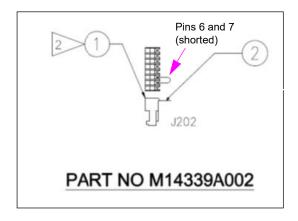
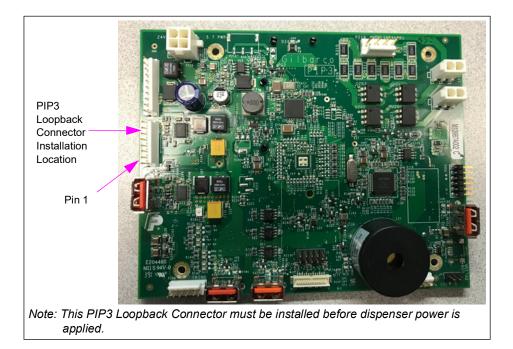


Figure 7-10: Loopback Connector Location on PIP3 (B Side Only)



Pins	Connection Status
1-5	Open
6 and 7	Shorted Note: If a M14339A002 is not available, you can use 0.1-inch jumper.
8	Open

Insite360 Forecourt Dispenser Troubleshooting

	Insite360	Forecourt Dispenser Troubleshoot	ling
Component	Symptom	Probable Cause	Steps to Resolve
Registration	The registration process has resulted in a "KO" error	 The "save configuration" process is still performing tasks in background- registration task was attempted too soon after the "save configuration" was performed. No internet connection Wrong SSoM configuration (duplicate IDs, IPs, wrong GVR ID, etc.) 	 Click the OK button, wait for three minutes and repeat the registration process several times. If you get the same error message at least three consecutive times, then troubleshoot based on the error message received.
	Pre-Registration KO- "EAI AGAIN" Error (see screenshot)	Duplicate IP Addresses or Local IDs	Check SSoM configuration and verify no duplicate local IDs or IP addresses.
	Pre-Registration KO- "EPROTO" ERROR	Expired Certificate	Update SSoM software to the latest approved version and attempt registration again.
1.7.10 upgrade and potential loss of communication	Lost communication to POS, maintain communication with Insite360 after updating SSoM from 1.7.10 to latest software or SSoM replacement with 3.2.4.	UPM is not programmed correctly and requires the correct default gateway: 172.16.100.254 and subnet: 255.255.255.0.	In the UPM Secure Menu (Orange screen), update the default gateway to 172.16.100.254 and subnet: 255.255.255.0.

		Forecourt Dispenser Troubleshoot	v
component	Symptom	Probable Cause	Steps to Resolve
	Pre-Registration KO	Even though you may get a successful Internet test, this could be a case where the IT department did not whitelist our URLs properly.	Run connectivity tests such as Telnet, tracert, or on-board diagnostics off SSoM/ Omnia if running the latest SW.
	Pre-Registration KO- {}	Site may be blocking one of the SSoM URLs	Run connectivity tests such as Telnet, tracert, or on-board diagnostics of SSoM/ Omnia if running the latest SW.
	Pre-Registration KO- "unable to find customer for device"	Provisioning problem or the wrong GVR ID was programmed in SSoM/Omnia	 Verify the correct GVR ID is programmed into the Omna/SSoM. Call TAC to contact provisioning team to resolve issue.
	Pre-Registration KO"Etimedout, "errno"; "Etimed out"; "syscall"; "connec" Unable to register to i360 <error: cannot="" register,<br="">gateway has not been determined.></error:>	No Connection to internet or network	Verify SSoM/Omnia config, IP addresses, network rules, IP address access granted on network, etc. Use Telnet and/or TraceRT troubleshooting tools to confirm internet connectivity. If Telnet passes, possible bad SSoM/ Omnia- Replace hardware.
	Pre-Registration "E not found" With the second sec	No Connection to internet or network	Verify SSoM config, IP addresses, network rules, IP address access granted on network, etc. Use Telnet and/or TraceRT troubleshooting tools to confirm internet connectivity. If Telnet passes, possible bad SSoM/ Omnia- Replace hardware.
	Unable to pre-register to i360 <error: -<br="" error="" service="" site="">FMS service returned status=503 , site_id=111222></error:>		

	Insite360 F	Forecourt Dispenser Troubleshoot	-
Component	Symptom	Probable Cause	Steps to Resolve
	Registration KO- "Error: Exec Error (1)	Internal devices not communicating to SSoM/Omnia. Wrong IP addresses programmed either on the SSoM/Omnia or device itself, Physical connection to devices, or wrong SW version on CRINDs.	Check the virtual LEDs on the "Home" tab at the bottom of the page of the Omnia/ SSoM Web UI (v2.1.2 and later) to see which device is not communicating with SSoM/Omnia. If all device LEDs are green, then it could be a network connectivity issue. Ensure that all Gilbarco Host names are whitelisted (transfer.gilbarco.com, registration.gilbarco.com, and device.gilbarco.com). Ensure that the DNS settings are correct. Use Telnet and/or TraceRT troubleshooting tools to confirm internet connectivity. If Telnet passes, possible bad SSoM/ Omnia. Replace hardware.
	Registration error "Cannot update registration information. Contact support- Registration cannot be completed. Try unregistering and register back again"	Duplicate IP Addresses, Local IDs or fueling positions	Check SSoM/Omnia configuration and verify no duplicated local IDs, IP addresses or fueling positions on the site.
	Registration KO- "Code","ENOTFOUND","errno ",ENOTFOUND","syscall","get add	Site internet connectivity issue	Check jumper position J3 on DCM2.x based on connection type (BRCM2 vs CAT5) P304 port. Ensure that the URLs are whitelisted properly. Use network diagnostic tools on latest version of SSoM or Omnia. Use Telnet and/or TraceRT troubleshooting tools to confirm internet connectivity. If Telnet passes, possible bad SSoM/ Omnia. Replace hardware.
	Pre-Registration KO- "System error: contact application support team"	Incorrect SMS setup of site, possible issue with GEO Codes (site coordinates Log/Lat)	Call TAC to escalate to provisioning team to resolve issue.
	Pre-Registration KO- Device type was not found in SMS- error=get_phantom_device_fr om_fms. Unable to find phantom serial for the device_type=SSOM and site Id=xxxxxx+null-null	Site is not setup properly in SMS	Call TAC to escalate to provisioning team to resolve issue.
	Dispenser was successfully registered but it is not showing on Portal	Dispenser registered to wrong site, check GVR ID Delay in devices populating to portal dashbd - view site devices from the Device tab, if not showing check site details and GVR ID used to register Possible registration server glitch	Call TAC.
	Registration Failure: "Duplicate Record"	I360 Database Issue	Call TAC to escalate to Gilbarco Cloud engineering.
	Unable to register to 1360 <error: registration="" rejected<br="">by the server. Check the Site ID & OTP then try again. If the error perists, contact Insite360.></error:>		

Component	Insite360 F	Probable Cause	Steps to Resolve
Component	After registering SSoM or Omnia to I360 successfully, all the devices go into a "not connected" state on IS360 (orange status)	Omnia- Either date and time is programmed wrong or device server is not whitelisted. SSoM device server not whitelisted	Check date and time of Omnia. Ensure that the device.gilbarco.com is whitelisted in the site's network router.
	Omnia registration error "Org.freesdesktop.Dbus.error. noreply"	Database error	Reload Omnia software.
De-Registration	De-Registration Fails from the SSoM WebApp with message "Error in de-registration: ECONNRESET"	Cloud connectivity issues	Resolve any site connectivity issues and try again; call Gilbarco Helpdesk to deregister device if issue is related to hardware problems.
DCM2.2	CRIND screen stuck in "starting application" mode		Check the connections for P303 on DCM2.2 and P1109 on the PCN. Verify the jumper setting at J6 (it should be set to position B-45mA).
SSoM UI	Can't get logged into the SSoM Application	Wrong IP address and port typed (:61084) in browser Static IP address of laptop wrong IP address of SSoM has changed or was configured wrong No power to SSoM or SSoM locked-up Defective cable Old version of web browser SSoM Application Failure	Ensure that the IP address is entered properly and port ID (:61084) for SSoM is included at the end of the address (i.e., 172.16.100.254:61084). Ensure the laptop IP address is on the same IP scheme as the SSoM; i.e., set laptop IP address to 172.16.100.15 if SSoM IP is set to 172.16.100.254. To reset SSoM back to factory default (172.16.100.254), see Appendix B "Reset Network Configuration to Factory Values". Observe LEDs; the ACT LED on CCP should be blinking or solid on. Try another CAT5 cable (ensure that it is seated properly in both the DCM2.x and laptop. Use latest version of web browser; Chrome is preferred.
SSoM Registration	"Check Internet" failed test	Older versions of SSoM software reached out to Google (8.8.8.8 IP) for this test, it is possible that Google is being blocked by firewall- Try to register device and troubleshoot according to the error message presented by registration failure Homeplug jumper missing on DCM2.1 (if site is using BRCM2) SSoM configured improperly Router rules and firewalls not allowing network traffic to internet No power to DCM or there is a communication cable connection issue on units using FlexPay Connect v1 (DCM to DCM2.1 connection)	For FlexPay Connect v2, verify that the HomePlug jumper is installed. Verify SSoM configuration (static IP, gateway and DNS) is correct; confirm with site IT personnel. Routers (firewall, routing rules, physical connections, etc.) are configured properly and IT personnel has verified settings. Internet Service Provider is online and active. For FlexPay Connect v1 sites; verify that the DCM has power and is connected properly to the DCM2 via CAT5 cable to port P304A. If it is connected and still no internet, power cycle DCM and/or dispenser and retest. Use network diagnostic tools on latest version of SSoM or Omnia. Use Telnet and/or TraceRT troubleshooting tools to confirm internet connectivity. If Telnet passes, possible bad SSoM/ Omnia. Replace hardware.

		Forecourt Dispenser Troubleshoo	
Component	Symptom	Probable Cause	Steps to Resolve
zModem	"Check zModem" test failed on SSoM UI	zModem cable (defective, not seated properly, not connected) PCN software doesn't meet minimum requirements 3.3.19 Bad PCN or serial port.	Ensure the zModem cable if properly connected to the CCP (P315) and on the PCN P1111. Try new zModem cable. Update PCN software (meets minimum requirements).
			Note: If you service the PCN and the zModem cable is removed, ensure that you reconnect zModem cable of else many Remote Management features will not work. This will include replacing the PCN or using the laptop port (P1111) for pulling logs or downloading software, etc.
SSoM/Omnia	All SSoMs unknown/not connected in Cloud	Site's Internet Service Provider offline Recent changes to firewall rules and settings BRCM2 or site router Issue Direct Ethernet switch or router issue Certificate within SSoM application expired If this occurs immediately after registration check date and time on Omnia UI	Check access to internet from other devices at the site. Check functionality of BRCM2 and system routers and ensure connections are good. If site has direct Ethernet to dispensers, then check main network switch or router. If this occurs immediately after registration check date and time on Omnia UI. Escalate to PSS if certificate expiration is suspected.
Remote RKL Failure	KBPK Key in TR34 Cannot Be Stored: AP (0x6c)	Bad UPM Replace UPM	
Contactless Card Reader	Contactless Card Reader (UX410) not functioning (DCM2.2 only)		Verify that the VLAN Jumper (J5) is installed on the FlexPay II unit only and card readers are connected to the proper RJ45 port.
PCN	The Check Serial Interface test fails from the SSoM UI or the PCN is not responding to Insite360 commands.		Verify ZMODEM cable is connected at P315 and on P1111 at the PCN (excludes E300 and The Advantage Series).

Omnia Encore Dispenser Troubleshooting

Component	Symptom	Probable Cause	Steps to Resolve
Applause Media System (working prior to Omnia installation)	Applause Media System does not display on any units after installing the Omnia dispenser.	 Applause Media System Site Server IP address does not match the new IP scheme at dispensers. Applause Site Server IP addresses or media configuration set incorrectly in the CRIND programming router configuration. Applause Media not turned ON in Omnia Media programming. 	 Check the following Applause setting on the Media page in the Omnia programming: External IP addresses for CRINDs Applause Server IP in Omnia config Applause Site Server and routers Power cycle the Applause Media System Site Server. Check the side jumper on PIP 3.
Omnia Applause Media configuration is not set properly	Applause Media System is not displayed at a specific fueling position after installing Omnia dispenser.	 Media configuration (M7) set incorrectly in the CRIND programming. Terminal ID and Pump Monitor ID set incorrectly in the Omnia configuration. CRIND IP address and gateway for Applause Media System Site Server is set incorrectly. 	 Check the following Applause setting on the Media page in the Omnia programming: In the Media Configuration page, verify that Applause is turned ON. External If addresses for CRINDs. Applause Server IP in Omnia config Applause Site Server, and routers Power cycle the Applause Media System Site Server. Check the side jumper on PIP3. Verify that Omnia connection module is selected in the UPM. Run Media Utility test from the Media Configuration page.
	Applause Media System does not display after replacing the UPM.	IP address is not auto-set properly by the CRIND.	 Check UPM software version. Check that Communication module is se to Omnia. Check CRIND configuration.
Omnia FlexPay IV unit	During startup of an Omnia FlexPay IV unit, the communication to the back room halts. A message "Starting Application" may appear on the CRIND Screen. Seems as if the download from the POS never started (or halted early on).	The jumper is not installed properly on the Side B PIP.	 With the Omnia PIP, verify that the jumpe is installed on the B Side PIP. On PIP3 when used with Omnia, verify the "Loopback Connector" is installed on Side B PIP3 at the P202 Connector (The loopback connector comes in the Omnia Kit). In MOC setting, "Start Application" could mean that the CRIND is not communicating with the Pump. Check P1109 on PCN and P303 on Omnia.
Omnia through Onboard web page	 Cannot update software on Omnia through Onboard web page. Omnia time and date is lost (This could become a problem parsing logs to investigate problems). 	Battery jumper on Omnia PCB not installed properly.	 The battery jumper on the Omnia PCB should be installed from the factory on crates and kits in the J3 (pins 17 and 18 position - top jumper in the J3 bank). Set date and time on the board.

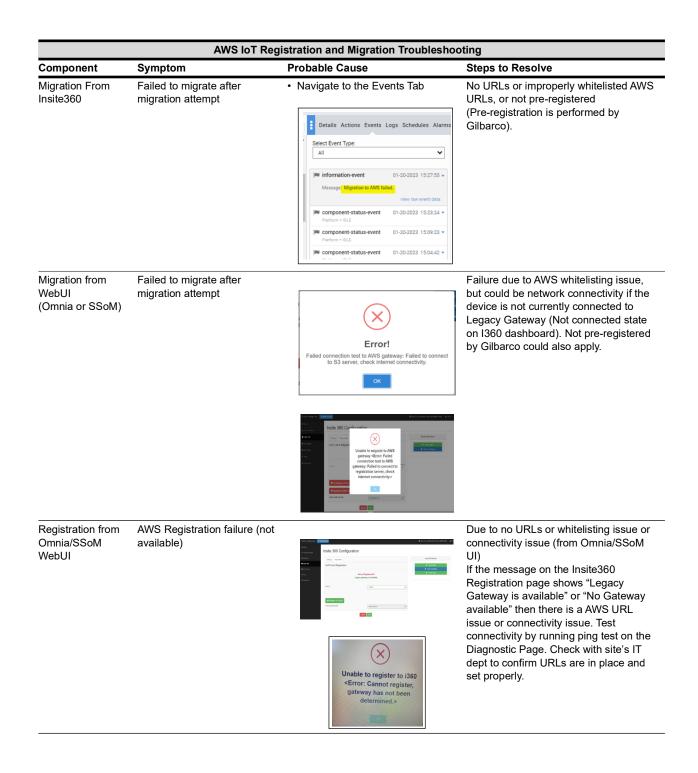
		Encore Dispenser Troubleshootir	•
Component	Symptom	Probable Cause	Steps to Resolve
POS on CRIND	No communication to the POS (CRIND or pump).	The wrong two-wire cable may have been used in the installation. The unit or kit is shipped with three two-wire cables (one for MOC and one for Generic, and an additional cable if there is no DCM3 to intercept the connection).	 Verify that the correct cable was used. M11961A003 is for MOC; M11961A004 is used for Generic. In environments withou a DCM3, add the M02993A005 cable to close the connection. Verify the web app configuration for MOC and GENERIC setting.
	On sites with Commander POS, the POS application download freezes (or halts) midway through the download.	CRIND not set to 9600 Baud Rate at the UPM, and at the Commander POS.	Verify 9600 Baud Rate is set at the Commander and in the UPM.
Card Reader on CRIND	Card Reader is in an Error State (either the text "Card Reader Error" is displayed on the CRIND Screen, or a red "X" is displayed over the card reader) after setting the Omnia parameter in the UPM's Device Configuration "Communication Module" setting.	Card Reader IP settings are incorrect.	 The card reader must be set to its defaul IP setting 172.16.100.2 (for both Side A and B) when Omnia is configured in the UPM. This is accomplished by assigning the default IP address in the green screer of the UPM (press the button on the UX300 Card Reader). Note: For Omnia, the UPMs are automatically set to 172.20.100.1/3, and the Card Readers remain at their factory Default Setting of 172.16.100.2 (both sides). The different IP Scheme is possible because of the Omnia's VLAN routing and dedicated ports.
	Can't set card reader to default setting after Omnia installed. Usually occurs on Side B.	Can't reach card reader because proper sequence was not followed during kit upgrade.	 Connect Side B card reader in the yellow UX300B port on the Omnia board. In the Device Config menu, confirm that the Omnia parameter is set. Reboot after Omnia settings. Select <2> Device Configuration. Select <2> VFI Device Configuration. Press the button on the UX300 card reader and assign the default IP address 172.16.100.2. Exit. The UPM reboots, and then the UPM updates the card reader. Wait until this process completes.
Card Reader Errors	Display shows a card with a red "X" through it and one of the following error codes:		
	CR 00	CR not Configured.	 Set the UPM programming Card Reader to VFI Manual. Power off, and then power on the unit.

	Omnia	Encore Dispenser Troubleshoo	oting
omponent	Symptom	Probable Cause	Steps to Resolve
	CR 02	CR disconnected.	 Power off, power on unit. Check the cable. Assign an IP address to the Card Reader. a From the UPM, in the System Menu, press <2> Device Configuration. b In the Device Config menu, press <2> VFI Device Configuration. c In the VFI Device Config menu, press <1> VFI Device IP Assignment and follow the prompts.
	CR 03	CR tampered.	Lost keys. Replace CR.
	CR 05	CR dismounted.	Perform the activation procedure.
	CR 08	CR driver error.	Replace CR.
	After upgrading UPMs to version xxx or later and installing the Omnia board, the side A card reader goes through its upgrade and works, but the side B card reader does not go through its upgrade and is inoperative.	Proper sequence was not followed during kit upgrade.	 To recover the side B card reader: 1 Connect side B card reader in the right Omnia port. 2 Check if Omnia parameter is set into device config menu. 3 Reboot after making Omnia settings. 4 Select <2> Device Configuration. 5 Select <2> VFI device configuration. 6 Go through the card reader button push process. It should discover the card reader and assign the card reader to 172.16.100.2. 7 Exit and allow the UPM to reboot. On rebooting, the UPM should begin updating the card reader. ALLOW THIS PROCESS TO COMPLETE.
	Card reader errors or UPMs not communicating properly. Sales go into POS from the wrong side. Various unusual symptoms with UPMs and card readers.	CAT5 cable connection not correct.	 Verify the CAT5 cables on the Omnia PCB. Verify that the RJ45 ports on Omnia are dedicated and color coded due to VLAN Verify that top row is Side A, and bottom row is Side B. UPMs use the blue CAT5 cables and UX300s use yellow CAT5 cables. Verify proper CAT5 connections. Ensure that the CRIND IDs are set correctly.

-		Encore Dispenser Troubleshooti	-
Component	Symptom	Probable Cause	Steps to Resolve
Insite360 Units	Cannot register the unit to GVR Cloud, but the Internet connectivity passes test.	Firewall blockers within the site network.	 Check for firewall blockers within the site's network (may require Site IT assistance). Verify all 3 Gilbarco URLs can be hit from the back room. To register Omnia to Insite360 Forecourt, the site must allow access to the 3 URLs (device.gilbarco.com, registration.gilbarco.com, and transfer.gilbarco.com) for registration to occur. Ensure that these websites are white-listed. Verify proper site connectivity in the back room (router configurations, etc.). Note: You can connect your laptop to the BRCM2 or BRCM2.1 or connect at Service Port on Omnia PCB. Ensure to make proper settings to your laptop. For example, the Default Gateway to back room, etc. must be set.
	Internet connectivity test does not pass.	Site connectivity issues.	 Check high-speed connection to the back room. If the connectivity LEDs appear correct, double-check the gateway settings and primary DNS. Move laptop to back room switch or to a free BRCM or BRCM2 port and try to connect to the Internet (example Google). If everything fails, ensure that the site is allowing the required external Internet connections.
Pump Control Node	PCN not reachable on Insite360 Forecourt. Cannot remotely perform PCN resets, pull logs, etc. from the pump portion of Insite360.	ZMODEM connection improper.	Verify the ZMODEM connection from Omnia P315 to PCN Laptop Port P1111. This cable must be connected and reconnected after any service is performed on the unit.
Omnia PCB	Omnia PCB not able to register through Secure Zone Router.	Firewall access.	Verify that the MAC addresses of each device have been provided to the site IT personnel to allow them through the firewall.
	Can't Reach the Omnia programming web page from the BRCM 2.X (Back Room).		Use 10.5.55.71:3000 to get to the Omnia Configuration Page (72, 73, 74, etc.) from the BRCM2 or BRCM2.1. Note: The External IP Address could be customer specified, and not the recommended default 10.5.55.XX value. Two-wire Over IP must be enabled in Omnia General settings page.
Card Reader	Cannot ping the card reader IP address from service port on the Omnia PCB.	Not able to ping the UX300 Card Readers at 172.16.100.2 due to VLAN Omnia Segmenting.	The UX300 Card Readers cannot be pinged at 172.16.100.2 due to VLAN Omnia Segmenting. The VLAN/Laptop Static IP setting along with the default UX300 does not allow to ping the UX300s. We can ping the UPM CRIND IP addresses 172.20.100.1/3 from the service port.

	Omnia	Encore Dispenser Troubleshoot	ing
Component	Symptom	Probable Cause	Steps to Resolve
Remote Management	Cannot warm start dispenser remotely.	ZMODEM cable connection.	Check if the ZMODEM cable is properly connected.
	Omnia date and time is not automatically updated via Cloud.	Firewall access.	 Check for firewall blockers within the site's network (may require Site IT assistance). Verify that all of the NTP URLs can be reached from the back room: 0.debian.pool.ntp.org 1.debian.pool.ntp.org 2.debian.pool.ntp.org 3.debian.pool.ntp.org
	Alarms for remote door sensors are not visible	1 ZMODEM cable connection.	1 Ensure that the ZMODEM cable is properly connected.
	in Insite360.	2 Pump connection type set incorrectly.	2 From Insite360 Configuration page, ensure that Pump Serial Interface is set to RTP - Serial.

AWS IoT Registration and Migration Troubleshooting



Component	Symptom	Probable Cause	Steps to Resolve
Registration from Omnia/SSoM WebUI	Registration failure (From Omnia/SSoM UI) AWS Gateway is available, but fails to register.	Unable to register to i360 <error: registration="" rejected<br="">by the server. Check the Site ID & OTP then try again. If the error perists, contact Insite360.></error:>	Due to provisioning issue, wrong GVR ID used, or OTP entered incorrectly (capital letters must be used). Ensure that the Omnia/SSoM serial number prefix is capitalized and contains no spaces when entering into the ASC App Verify that One Time Password is entered properly (ensure Caps Lock key is not on). Get another OTP, and verify that site was provisioned properly (Gilbarco must confirm this; check the Site Management to verify that site is in I360; verify provisioning via test links; verify GVR ID). Finally, verify that the GVR ID was entered correctly in WebUI
Registration from Omnia/SSoM WebUI	Registration to AWS is not available (no Gateway available message option)	Image: Instance State St	Due to wrong Omnia/SSoM Software, Registration Page message shows "Not yet registered", AWS compatible SW is not loaded. Install the Omnia 05.06 or SSoM 4.5.0 or higher to gain access to the AWS servers.
Registration from Omnia/SSoM WebUI	Registration failure.	 Message returns "Device already registered in the Cloud". Gilbarco did not remove old device from AWS IoT dashboard in I360. Duplicate fueling positions are detected. 	De-register the device from Insite360 and try again. Also, check if using the same FP of another device that is already registered. Verify using the correct GVR ID.
Registration from Omnia/SSoM WebUI	Registering in Dormant Mode does not show any devices besides Omnia.	State State <td< td=""><td>Disable the dormant mode, and then re-enable it after the device is updated on the dashboard.</td></td<>	Disable the dormant mode, and then re-enable it after the device is updated on the dashboard.
Failure to register from AWS IoT Gateway.	"Unable to register to i360. Registration rejected by server" message is displayed.	Dispenser de-registration process must occur at both the dispenser and Insite360. De-register action at the dispenser only removes the communication certificates.	Contact Gilbarco TAC to de-register the dispenser on Insite360. Wrong GVR ID - Ensure that the correct GVR ID is being used; remove the old GVR ID, re-enter and then save configuration, and try to register again. OTP wrong - OTP entered incorrectly, Retry OTP at least 3 times, get new OTP, and ensure that the prefix letters in serial are in all caps when entering in the OTP tool. If device was previously registered to AWS - Contact Gilbarco to de-register the device from Insite360. Site Provisioning is not complete - Contact Gilbarco and request to check the Provisioning status.

Component	-	istration and Migration Troublesho	-
Component WebUI	Symptom During the software install/ AWS Migration, it was found that after the SW updates, the WebUI connectivity LED was showing RED indicating no connectivity to the I360 Portal. The LED should be green when unit is properly connected. After investigation, it was found that I360 was infact connected even though LED status was Red.	Probable Cause The LED is labeled "Connected to GVR Cloud Server"	Steps to Resolve Refresh the browser connected to WebUI. If problem persists, restart the Omnia Device (Initiate reboot through the Tools Page of the WebUI)
WebUI	Cannot connect to Device WebUI with laptop browser.	-	Make sure Laptop is set to proper IP Scheme Clear cache on laptop Switch to a different browser (Problems have been seen using Microsoft Edge), Try Chrome
I360 Portal	I360 portal shows device not connected when device is connected. WebUI was showing Green LED Status, yet site was showing not connected on the I360 Portal.	-	Perform a "refresh status" or "refresh device config" command on the Actions Tab on the device to re-sync Device to I360 Refresh Status - This command requests immediate current status of each device/component Refresh Device Configuration - This command requests full configuration of each device and component (i.e. SW Version, Programming, etc.)
Software Downloads via I360	Cannot download software to device (or any resource files)	-	Potential Customer IT Issue - URL whitelisting issue or Network configuration.
Log Pull (Uploads) via I360	Unable to pull logs (uploads) from devices. WebUI diagnostics pass.	-	Potential Customer IT Issue - URL whitelisting issue or Network configuration. If connected to AWS, the time of the Omnia must be within 10 mins of site time; if not, it cannot retrieve logs. Ensure that the Omnia has access to NTP servers to keep the time accurate.
Diagnostics	General Migration and First Time Registrations Failures	Implementation Implementatio	Verify Device Configuration and run Diagnostics Test.

De-Registration from AWS IoT Gateway

De-Registration from the AWS IoT Gateway is a two-step process:

- De-Register the dispenser at the local dispenser registration screen.
- Un-Register the dispenser at the Remote Management portal.

The order of the two steps is not important, but both need to be completed. De-Registration from the dispenser removes the communication certificates inside the dispenser. The dispenser will be listed (not connected) in the I360 Remote Management portal. The second step is Un-Register the dispenser at the Remote Management portal (this action only removes the dispenser from the Remote Management portal). If the De-Registration locally at the dispenser was not performed, the dispenser will think that it is still registered but the AWS IoT Gateway will deny the connection. The step to Un-Register at the Remote Management portal completes the De-Registration action.

To De-Register a Dispenser from the AWS IoT Gateway:

1 From the Insite 360 Configuration page, click **De-Register from Cloud**.

Figure 7-11: GVR Cloud Registration - De-Register from Cloud

Omnia configurator	Setup Wizard		🕓 Thu, 13 J	an 2022 08:15:51 am GMT-05:00 & Admi
₩ Home ⊁ General Settings	Insite 360 Con	figuration		
	Settings Registration			Insite 360 Actions
Insite 360	GVR Cloud Registratio	n		🦿 Check Sniffer
RTP Proxy				Check Certificate
	Register	red to AWS IoT Core! 🗸		
& Diagnostic	Tech ID	A20005	~	
	C+ De-Register from Clo Omnia Serial Number	ud IN180900045	~	
	1	Cancel Save		

2 The messages "Not Yet Registered" and "AWS IoT Core gateway is available" are displayed.

Figure 7-12: AWS IoT Core Gateway Message

🗧 🔶 C 🔺 Not secure http	s://10.80.32.208:10001/index#/dynamic	Configuration		e	* 1
Omnia configurator 🛛 🗲 Setup	Wizard		() Thu, 13 J	an 2022 08:20:43 am GMT-05:00	🛔 Admir
₩ Home ⊁ General Settings	Insite 360 Confi	iguration			
⊋ Applause	Settings Registration			Insite 360 Actions	
Insite 360	GVR Cloud Registration	I.		🖌 Check Sniffer	
RTP Proxy				 Check Certificate 	
2 Tools		yet Registered × pre gateway is available.			
Diagnostic					
	One Time Password				
	Tech ID	A20005	~		
	Register to Cloud!				
	Omnia Serial Number	IN180900045	~		

3 From the Insite 360 Remote Management portal, go to the Dispenser that you want to Un-Register. The Cloud Gateway: Omnia device will display as "Not Connected" if the Omnia was de-registered from the Cloud only from the Omnia UI, but not the Insite 360 Forecourt portal.

Figure 7-13: Remote Management - Cloud Gateway: Omnia Device

→ C 🔒 insite360	x ASC App Home	X O Remote Management X + ops/remote-management/#/site/858308/details				© ☆ ≛
INSITE360						Pablo Cantarini
	< Remote Mana Site Details	agement				
	Site Information	Filters 0/9	Expand / Co	lapse 🗌 Select Multiple	Details Actions Events Lo	gs Schedules Alan
	Gilbarco ID: 858308	DISPENSER (1, 2)		Warm Start	Cloud Gateway: Omnia	
	Store Number: Encore L	Cloud Gateway: Omnia			Fueling Positions:	1
	Site Name: Gilbarco Encore Lab	Type: OMNIA	NOT CONNECTED		Connection State:	NOT CONNECT
	Address: 7300 West Friendly Ave Greensboro, NC 27410	Encore 300 Pump			Model Number: Serial Number:	3210 M15758A/
	US Phone:				Warranty Expires:	
	111111111 Customer: GVR Cloud Payment Team	#1 Fueing Position Payment Terminal: FlexPay IV Type: M2			In-Progress Actions	
	Payment Team External 183745	v more #2. Fueling Position			There are no in-progress ac	tions at this time.
	Organization ID: 0 70005653975 70005653976	Payment Terminal: FlexPay IV			Software Versions (0)	
	70005654230 Financial ID: 000000000	- type: mit → more			Components (0)	
	90000000163 9000000164 183745	C DISPENSER (9)		Warm Start		
	Last Update: 1 minute ago	Serial Number: EN123456				
	Site Last Update Time: 01/13/2022 - 08:16:48	Cloud Gateway: SSOM	CONNECTED	IDLE		
	Site Time Zone: America/New_York	Payment Terminal: FlexPay IV		IDLE		

4 In the right pane, select Actions > Un-Register Device, and click Yes.

Figure 7-14: Remote Management - List of Actions

> C 🔒 insite360	randbox oilbarro com/cloud.ui/oostal	//apps/remote-management/#/site/858308/details			18 ¢	
		у ардиу тепноленттая падеттяя пу нузная услосокоу месаны.				
INSITE360					Pablo	Cantarini
	< Remote Mar Site Details	nagement			Ξ	
	Site Information	Filters 0/9	Expand / Collapse	Select Multiple	Details Actions Events Logs Schedule	s Ala
	Gilbarco ID: 858308	DISPENSER (1, 2)		Warm Start	There are no in-progress actions at this time.	
	Store Number: Encore L	Cloud Gateway: Omnia			Please select an action	
	Site Name: Gilbarco Encore Lab	Type OMNA	NOT CONNECTED		File Update (1-step workflow) File Update (2-step process)	
	Address: 7300 West Friendly Ave	C Encore 300 Pump			File Update (Download)	
	Greensboro, NC 27410 US	Туре: £300			File Update (Install)	
	Phone: 111111111	#1 Fueling Position			Heartbeat	
	Customer: GVR Cloud Payment Team	Payment Terminal: FlexPay IV			Reconnect	
	Payment Team Payment Team External 183745	✓ more			Refresh Device Configuration	
	Organization ID:	#2 Fueling Position			Refresh Status	
	70005653975 70005653976 70005654230	Payment Terminal: FlexPay IV			Request Certificate Rotation Request Log File from Device	
	Financial ID: 0000000000	v more			Security Change	
	90000000163 90000000164 183745	DISPENSER (9)		Warm Start	Settings Change	
	Last Update: 1 minute ago	Serial Number: EN123456			Software Reset	
	Site Last Update Time: 01/13/2022 - 08:16:48	Cloud Gateway: SSOM Type: SSOM	CONNECTED	IDLE	Un-Register Device	`
	Site Time Zone: America/New_York	Payment Terminal: FlexPay IV			WARNING: You are about to un-register this from insite360. THIS PROCESS CANNOT BI	i devici
		Ype: M7		IDLE	Are you sure you want to continue?	

5 Click **UN-REGISTER DEVICE** to confirm.

Note: To register a device after de-registration, call TAC at 1-800-743-7501.

Figure 7-15: Remote Management - Un-Register Device - Confirm

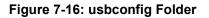
	andbolcglibarco.com/cloud-u/porta/	/apps/remote-management/#/site/858308/details		6 🕁 🔮
INSITE360				Pablo Cantair
	< Remote Mar Site Details	nagement		
	Site Information	Filters 0/9	Expand / Collapse	Select Multiple
	Gilbarco ID: 858308	DISPENSER (1, 2)	Warm S	Start A There are no in progress actions at this time.
	Store Number: Encore L	Cloud Gateway: Omnia		Please select an action
	Site Name: Gilbarco Encore Lab	Type: OMNIA	NOT CONNECTED	File Update (1-step workflow) File Update (2-step process)
	Address: 7300 West Friendly Ave	Encore 300 Pump		File Update (Download)
	Greensboro, NC 27410 US	Type: E300		File Update (Install)
	Phone:	#1 Fueling Position		Heartbeat
	Customer: GVR Cloud Parment Team	Payment Terminal: FlexPay IV		Reconnect
	Payment Team External 183745	✓ more		Refresh Device Configuration Refresh Status
	Organization ID:	#2 Fueling Position		
	70005653975 70005653976 70005654230	Payment Terminal: FlexPay IV		Request Certificate Rotation Request Log File from Device
	Financial ID: 000000000	v more		Security Change
	9000000163 9000000164 183745	DISPENSER (9)	Warm S	Start A
	Last Update: 1 minute ago	Serial Number: EN123456		Software Reset
	Site Last Update Time: 01/13/2022 - 08:16:48	Cloud Gateway: SSOM	CONNECTED	
	Site Time Zone: America/New_York	Payment Terminal: FlexPay IV		

The dispenser is de-registered from the AWS Gateway and un-registered from Insite 360.

Retrieving the Omnia Network Configuration

The default IP address for the Omnia is 172.20.100.254. If it has been changed, you can use the following procedure to retrieve the current IP address:

1 Create a folder on your Windows desktop with the name "usbconfig". Create a sub-folder within it, with the name "config.json".





2 Using a text editor, such as Windows Notepad, type the following command exactly as shown in Figure 7-17.

Figure 7-17: Command

```
{
	"umount":true,
	"actions":["get-network-cfg"]
}
```

- **3** Save the file as config.json to the Windows desktop.
- 4 Copy and paste the config.json file into the usbconfig folder.
- **5** Copy the usbconfig folder and its content to the root directory of an empty, FAT-formatted Universal Serial Bus (USB) stick.
- 6 Plug the USB stick into the USB J6301 of Omnia.

The board will automatically detect the USB storage and will create a file on it with the current networking configuration.

7 When the operation is completed successfully, the red LED under USB J6301 blinks. If an error is detected, the red LED turns solid ON.

Note: The results are stored in the following location: usbconfig\network-config-SERIALNUMBER.txt. The SERIALNUMBER is the serial number of the Omnia.

Resetting the Network Configuration to Factory Values



The procedure described below will modify the networking settings of the Omnia, potentially making the dispenser or the entire site temporarily inoperative! Execute the procedure only under direction and supervision of Gilbarco Help Desk.

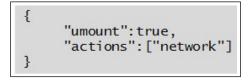
1 Create a folder on the Windows desktop with the name "usbconfig". In that, create a file with the name "config.json".

Figure 7-18: Creating Folder



2 Using an editor of your choice (for example, Windows Notepad), type the following command exactly as shown in Figure 7-19.

Figure 7-19: Command



- **3** Save the file as config.json to the Windows desktop.
- 4 Copy and paste the config.json file into the "usbconfig" folder.
- **5** Copy the usbconfig folder and its content in the root directory of an empty, FAT-formatted, USB drive.
- 6 Plug the USB drive into the USB connector of the Omnia.

The Omnia board automatically detects the file and command on the USB drive (reboot is not required) and then resets the network settings back to factory default Omnia IP address (172.20.100.254). The process takes no longer than 2 minutes. When the operation has finished, D28-D32 LEDs will be ON.

After completing the procedure, you can access the configuration web application using the default IP parameters and apply any changes to the Omnia configuration.

- 7 Reconfigure the PC network configuration as follows:
 - **IP**: 172.16.100.15
 - Netmask: 255.255.255.0
- 8 Connect a PC with a browser to service port.
- 9 Open a browser and type http://172.20.100.254:3000/ in the address field.
- **10** Apply changes to the Omnia configuration as needed. Configure the Omnia network as follows:

External Omnia IP address for Side A Address: 10.5.55.71 Netmask: 255.255.255.0

External Omnia IP address for Side B

Address: 10.5.55.72 Netmask: 255.255.255.0

Internal Omnia IP address

Address: 172.20.100.254 Netmask: 255.255.255.0 Note: Netmask should be 255.255.255.0

Note: If the process was successful, a log file of the change will be automatically copied to the usbconfig.

The network configuration should be as shown in Figure 7-20.

Figure 7-20: Network Configuration

```
auto lo

iface lo inet loopback

auto eth0

allow-hotplug eth0

iface eth0 inet static

address 10.5.55.71

netmask 255.255.255.0

auto eth0:0

allow-hotplug eth0:0

iface eth0:0 inet static

address 10.5.55.72

netmask 255.255.255.0

auto eth1

allow-hotplug eth1

iface eth1 inet static

address 172.16.100.254

netmask 255.255.255.0
```

Note: The log file of the operation is located in the folder "usbconfig".

11 Restore your PC network configuration.

Appendix A: Site Network Survey

The following questions are intended to be submitted to the customer or its IT consultants to collect information required for a proper networking configuration.

1 Is the customer dictating its own IP scheme for the forecourt? YES NO

If YES:

a What is the subnet intended for the dispenser's net and what is the range of available IP addresses?

First available IP	Last available IP	Netmask

Ensure that the number of available IP addresses match the following requirements:

- Two IP addresses per dispenser (1 if dispenser is single sided)
- One IP address for the BRCM2 or BRCM2.1
- One IP address for Applause Media System Site Server (if present)

b What is the default gateway of the site?

__ · ___

_ · __

Default Gateway

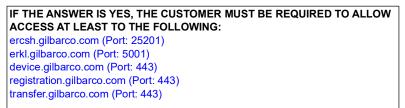
c What is the primary DNS server IP address?

_ · _

Primary DNS IP

d Does the customer's main router have one available Ethernet port to connect the BRCM2 or BRCM2.1? YES NO I If the answer is NO, it might be necessary for the customer to buy an additional switch.

2 Does the customer restrict the access to the DNS server out to Internet? YES NO



3	Does the customer enforce any MAC filtering or Port Security policy in the site net?
	YES NO

If the answer is YES, it	t may be required that you know in advance the MAC addresses of every Omnia to be installed on the site.
4	Is the Site running Applause? YES NO
	If YES:
	 a Is the Applause Media System Site Server directly connected with the customer site router or is it connected to an intermediate router (normally Cisco RV042)? MAIN ROUTER RV042
	b What is the IP address of the Applause Media System Site Server?
	Applause IP Address
	·
	c Is Applause Media System Site Server configured to use single NIC or dual NIC?
If the answer is dual N Firewall Router).	IIC, convert the Applause system to a single NIC configuration, which may require an additional router (RV042
	SINGLE NIC DUAL NIC
5	Draw a simple sketch of the site network topology.
	Notify the site IT personnel that User Datagram Protocol (UDP) port 123 must remain open; the Omnia platform requires the NTP access to the following locations: • 0.debian.pool.ntp.org • 1.debian.pool.ntp.org • 2.debian.pool.ntp.org • 3.debian.pool.ntp.org
	Contact IT personnel to verify that the site router allows the connection to these servers. If an NTP intercept is enabled on the router, the router must provide an answer to a time request from Omnia in less than 100 ms to avoid a loop in which the time keeps changing on the Omnia device.
	Ensure that the network rules allow access to the following addresses defined in the Pre-Installation Checklist on page 3-2.

Appendix B: FlexPay IV Applause[®] TV on Invenco Cloud Services (ICS) Migration

The FlexPay IV Applause Media System sites operating on Applause site servers will be migrated to the cloud-based platform, Invenco Cloud Services (ICS). As a result of this migration, the existing site server hardware will no longer be required. For more information, refer to "Migration Instructions" on page B-3.

Software Requirements

Note: To download Software, go to **Extranet** > **Technical Resources** > **Laptop Tool and Software**.

The following are the required software versions:

- Encore Experience software version 6.00BR2
- OmniaICS_Package1_04.0.0014
- OmniaICS_Package2_01.00.02.03_DefaultPOS
- OmniaICS_Package3_01.00.02.03_VerifonePOS (For Verifone POS only)

Site Survey, Dispenser, and POS Requirements

A site survey must be performed to ensure successful migration to the ICS networks. The site survey form can be accessed using the following link: https://app.smartsheet.com/b/form/fa87517ce08f423c83c25945d19e3146

After the site survey is completed, the technician must ensure that sites meet the following qualifications before continuing with the migration.

- 1 Dispensers must be Gilbarco Encore 500S/700S with FlexPay IV and Omnia.
- 2 Sites must not include a mix of SSoM and Omnia.
- 3 The POS brand must be Passport, NCR, or Verifone[®]. *Note: Passport Version 11 or older is not supported with this migration.*
- 4 MNSP must be informed of addresses to whitelist for ICS and Insite360 connectivity.
- 5 Site must be provisioned by onboarding team and ready for ICS and Insite360 registration.
- 6 All dispensers must be registered to Insite360.
- 7 CRIND display resolution must be one of the following:
 - M14004AXXX VGS (640x480)
 - M19045A001 SVGS (800x600)
 - M15899B001 15.6" Display (1366x768)

Insite360 Forecourt Whitelisting/End Point Requirements for AWS-IoT and Invenco/ICS

Technicians must work with the site's MNSP to whitelist all the addresses listed in the "Installation Checklists" on page 3-1, and referenced below for Insite360 and ICS connections.

AWS IoT URLS

- aatnf1k6u65sn-ats.iot.us-east-1.amazonaws.com (ports 443, 8443, 8883)
- cfvuav3n0omj9.credentials.iot.us-east-1.amazonaws.com (ports 443, 8443, 8883)
- device-download-prod.s3.amazonaws.com (ports 443, 8443, 8883)
- s3.amazonaws.com/prod.i360.device.fileupload/* (ports 443, 8443, 8883)
- omnia-checkin.prod.insite360.gilbarco.com (Port 443)

NTP Server Destinations (Destination Port = 123, Protocol = UDP)

- 0.debian.pool.ntp.org
- 1.debian.pool.ntp.org
- 2.debian.pool.ntp.org
- 3.debian.pool.ntp.org

GSTV/ICS Media

- https://icsapiprod.applause.gilbarco.com (Port 443), or
- *applause.gilbarco.com

Note: Use the wildcard URL (*applause.gilbarco.com) if possible, this will future proof the connection if we add URLs later. If wildcards are prohibited, use option <u>https://icsapiprod.applause.gilbarco.com/</u>.

Migration Instructions

IMPORTANT INFORMATION

The Encore Experience software must be installed in the order as instructed using the following steps for successful installation.

For migration instructions, proceed as follows:

- 1 Install the Encore Experience software V6.00BR2 onto the Omnia.
- 2 Select Yes, and reboot when the Encore Experience software installation is complete.
- 3 Register the dispenser to the Insite 360 cloud and ensure that it is successfully registered.
- 4 Install OmniaICS_Package1_04.0.0014 or latest available version onto the Omnia.
- 5 Select Yes, and reboot when the OmniaICS_Package1_04.0.0014 installation is complete.
- 6 Install OmniaICS_Package2_01.00.02.03_DefaultPOS or latest available version onto the Omnia.
- 7 If POS is Verifone, install the OmniaICS_Package3_01.00.02.03_VerifonePOS or latest available version package. If not, go to step 8.
- 8 Log into the Omnia Configuration and click **Open Apps**. Select the configuration for the **Media State Enable** field as follows and set **Volume** to "70" (see Figure B-1).
 - Disabled for Passport POS
 - Enabled for Generic POS

Figure B-1: Open Apps Configuration

nia configurator 🔰 Se	tup Wizard		
tome			
General Settings	Open Apps Configuration	on	
nsite 360	Media State Enabled	Enabled	~
pen Apps	Idle Loop Delay	10	
TP Prexy	Idie Loop Delay From Busy	10	•
sector Tool v2.1.3	Busy Loop Delay	5	• • •
ols	Volume	70	•
agnostic	Server	10.5.55.66	✓
egnorae.	JavaScript Console	Disabled	~
	Side A		
	Pump ID	7	*
	Side B		
	Pump ID	11	*
		Cancel Save	

- 9 Ensure that the dispenser is connected to ICS and media is playing (during fueling) by contacting the Invenco by GVR Onboarding team (at 866-606-8966). The Onboarding team will validate the connection and inform the technician of the results. If the connection is not working, the Onboarding team will instruct the technician on next steps.
- 10 Disconnect the existing physical Applause site server and leave the server at the site.

Troubleshooting

IMPORTANT INFORMATION

Do not use the Encore Experience Removal Tool to remove the Encore Experience and the Omnia ICS packages. In the event that the Encore Experience and Omnia ICS packages must be removed, use the Omnia ICS Removal Tool that is available on the Extranet. Instructions are included in the Omnia ICS Removal Tool package.

Message "Warning! Update in progress! Verifying package signature"

If the above message is displayed when accessing the Omnia Configurator, warmstart the dispenser to clear the message. This is due to software that has been staged (downloaded) from Insite360 to the Omnia but is yet to be installed.

	Do	WARNING! Update in progress! not reboot or powercycle the board	1!	
		÷		
		34%		
		Verifying package signature		
	Applications Versi35/35] verifying	package [signed-systemd_239-12-bpo9+	1_armhf.deb]	
2		~		
			8	
		~		

Figure B-2: Warning Message - Update in Progress!

"Errors during software updating - Errors installing OpenApp packages"

If this error message is displayed during the installation of the

OmniaICS_Package2_01.00.02.03_DefaultPOS, this indicates that the Encore Experience software has not been installed. Install the Encore Experience software, and then reinstall the OmniaICS_Package2_01.00.02.03_DefaultPOS.

Figure B-3: Warning Message - Errors During Software Updating

			WARNING!		
			Update in progress! Do not reboot or powercycle the board!		
			· · · · ·		
			•		
			Errors during software updating		
		icsplayer-openapps.zlp			
			Errors installing OpenApp packages		
			[1/2] Sending 'OpenApp' key [oa-enable]		
				·····	
ROR Failed to i actified file] TICE Trying to i ROR Failed to i actified file] ROR [DO_INST	install OpenApp p nstall. [Package: [ALL_VERIFIED_	devsigned-1-omnia-oa-ei backage 'oa-enable' devsigned-1-omnia-oa-ei	nable_1.0.0_all.oak.deb] [Error: FTS reply is code:100 message: nable_1.0.0_all.oak.deb] [Error: FTS reply is code:100 message: exception Failed to install. [Package: devsigned-1-omnia-oa-enal crifted file]	No registered subscri	bers (file handlers) for the

Note: When Encore Experience is successfully installed on the Omnia, the Applause Configuration is removed, and the Open Apps Configuration is added to the Omnia Configurator in the left navigation panel.

Verify Omnia is Ready to Connect to ICS and Installation is Successful

Connect to the Omnia Configurator. From the Home page, proceed as follows:

- 1 Expand the Applications Version and verify that the following fields are shown:
 - icsadaptor
 - icscontentplayer
 - icsagent

Figure B-4: Applications Version

Home		
	Home	
Insite 360		Firmware Version
Open Apps		
RTP Proxy		Applications Version
🕼 Tools		
🌡 Diagnostic	ipump	05.22.000
	pumpproxy	1.2.0
	gvrsfdt	3.5.0
	omnia-gui	1.0.3.1977
	icsadaptor	04.01.0010
	mph	2.2.3
	crindproxy	1.0.9
	omnia-webui	05.01.01-7285.7319
	doo	3.0.5
	rtpproxy	1.3.2.1953
	cscontentplayer	04.01.0010
	openappsbase	3.0.8
	icsagent	04.01.0010

2 Expand the Open Apps Version and verify that the App_icsplayer and icsplayer_layout_104_fueling were installed. Also, verify that the LEDs in Open Apps status are green for License and Keys.

Omnia configurator 🚺	etup Wizard	· · ·	<u> </u>		O Fri, 31 J	lan 2025 07:31:31 pm GMT+00:00 💧 Admin 🛩	
+ Home							
F General Settings	Home					•	
Insite 360		Firmware Version	•		Network status		
 Open Apps 					UPM A reachable	•	
RTP Proxy		Applications Version	-	न न न	UPM B reachable	•	
GP Tools		Applications version	•		NTP Server reachable	•	
& Diagnostic	&	Open Apps Version	•		Cloud status		
					Configured	•	
	App_icsplayer	01.00.02.03			Registered	•	
	icsplayer_layout_104_fueling	01.00.00.09			Connected to GVR Cloud Server	•	
	Board Informatio				Open Apps status		
		Board Information	-	• 0	License	•	
				8	Keys	• •	
					Pump status		
				<u>_</u>)	Operative	•	
		L ₂	C Retresh Info				

Figure B-5: Open Apps Version

Appendix C: Legacy Gateway

Registering Omnia to Insite360 Forecourt

Ensure that the Network Rules are set to allow the following URLs, which are applicable to all versions of Omnia Software:

- registration.gilbarco.com
- transfer.gilbarco.com
- device.gilbarco.com

To register Omnia to Insite360 Forecourt, proceed as follows:

- 1 Click the **Registration** tab.
- 2 Enter a valid Tech ID number in the ASC ID field, and then click **Register Omnia to SODA!** for registration.

Figure B-1: Pre-registration to Gilbarco Cloud In Progress

	Not yet Registered ×		
		~	
	Registering to Insite36)	

A dialog box opens to indicate success or failure.

Figure B-2: Indicating Success or Failure

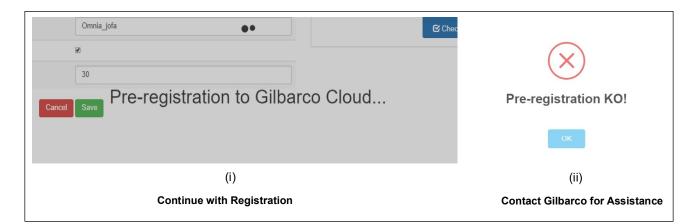
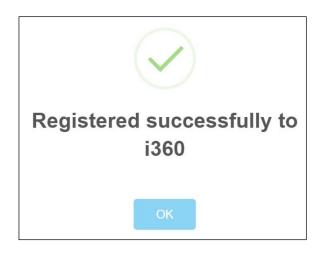


Figure B-3: Registration OK

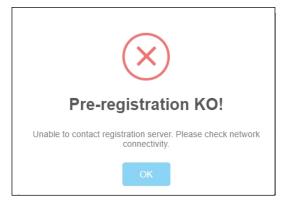


If the registration is unsuccessful, a dialog box as shown in Figure B-4 opens after 1-2 minutes.

Figure B-4: Registration KO (Failure) Message

	\mathbf{X}
Regi	stration KO
Error: SPOT 172.20.	100.3: Socket operation timed out
	ОК

Figure B-5: Pre-registration KO (Failure) Message



If the registration is unsuccessful after multiple attempts, refer to "Troubleshooting" on page 7-1.

Completing the Programming

To complete the programming, proceed as follows:

- 1 Exit the Omnia Configurator.
- 2 Re-establish two-wire communication to the POS. Note: Depending on the POS, a purge may be required. Then, download the POS application.
- 3 Test the unit operation and open the fueling positions for use.

De-registering Omnia from Insite360 Forecourt

To unregister dispenser from Insite 360 Cloud, proceed as follows:

- 1 Within the Omnia webpage application, click the **Registration** tab.
- 2 Select **De-Register** and Wait for the de-register success message.

Figure B-6: De-Register

Omnia configurator 😽 S	etup Wizard		💩 Admin +
n Home			
📕 General Settings	Insite 360 Configurat	ion	
C Applause	Settings Registration		Insite 360 Actions
 Insite 360 	GVR Cloud Registration		Check Internet
G∕r Tools	Ovir Cloud Registration		✓ Check Sniffer
& Diagnostic		Registered to GVR Cloud! ✓	🖌 Check Certificate
			🖌 Check Serial
	Tech ID	A20005	
	G De-Register from Cloud		
	Omnia Serial Number	15739104 🖌	
		Cancel Save	

Note: De-register the Omnia PCB before replacing. Re-register after service.

Figure B-7: De-registration Success Message

Settings Registration			Insite 360 Actions
General Configuration			 Check Internet
GVR ID			🛷 Check Sniffer
Omnia Nickname	\checkmark		
Incremental Logs	Deregistered successfully		
Download Logs Every (mins)	from i360	~	
PUMP Configuration Settings			
	ок		
Pump Type		Ŧ	
Two-Wire Money Mode	5 Digits Money Mode (Default)		
Two-Wire Money Mode	5 Digits Money Mode (Default)	•	
Money Decimal Position	X.xx (Default)	Y	

GVR Cloud Registration Error Cases

The following section shows errors related to Registration and describes possible causes and actions to take for resolution.

1 **Problem**: Failure to register to Legacy Gateway.

Figure B-8: Legacy Gateway Registration Error

	4 Setup Wizard		_	Wed, 05 Jan 2022 01:16:22 pm GMT-05:00 ▲Adm
	Insite 360 Configuration			
	Settings Registration			Insite 360 Actions
Insite 360	GVR Cloud Registration			
				✓ Check Certificate
	Tech ID	Unable to register to i360 <error: check<="" please="" td=""><td>~</td><td></td></error:>	~	
		connectivity with the		
	A Register to Cloud!	associated devices>		
	Ormia Serial Number		~	
		С ОК		
		Cancel Save		

Possible Cause: One of the internal devices (UPM of GSoM of Programmed) is not communicating to the Omnia at the time of the registration attempt.

Action: Check connectivity to the UPM/GSoM. Verify the physical connection, IP scheme, and IP addresses in both the Omnia and UPM/GSoM.

2 **Problem:** Failure to De-register from Legacy Gateway.

Possible Causes: Unable to reach Legacy servers; Legacy servers are not online.

Action: Call Insite 360 or check network status of the customer site.

This page is intentionally left blank.

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