



Technology Guide

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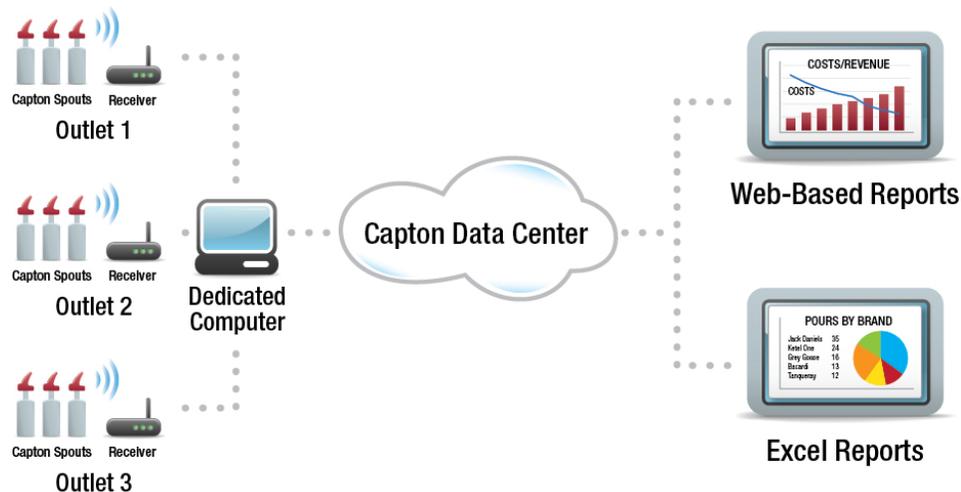
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Solution Overview

The Capton beverage management solution is a comprehensive data collection and analysis service. It includes data collection hardware installed at each outlet, and web-based software.

The system starts with a wireless free-pour spout that allows bartenders to pour liquor without adjusting normal bar operations. Each spout contains a microchip that wirelessly transmits pour data via radio frequency to a receiver. Every microchip has a unique serial code, so each spout can be tracked individually.



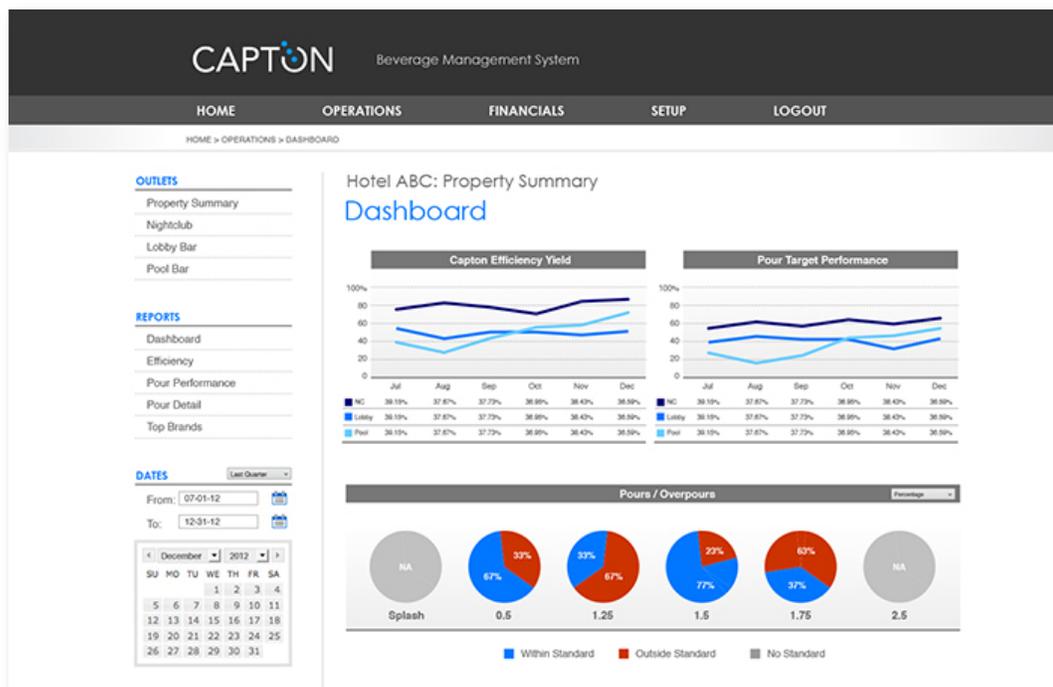
Antennas pick up signals from the pour spouts and conduct them to an Ethernet-enabled receiver. The receiver sends data via Ethernet to a computer running Capton data collection software. The computer transmits data via TCP/IP protocol to Capton's data center, where powerful software turns captured pour data into useable information for bar operations tracking and improvement.

Software

The Capton reporting interface is available 24/7 via the internet and any web browser client.

Architecture

The Capton solution is a server-based system that acts as a central command and reporting center, allowing you to efficiently manage an unlimited number of bars and users. And with a web-based interface and simple-to-manage administration, Capton lets you designate multiple users and restrict access by management area or location.



Easy-to-use reports allow for high-level performance analysis, as well as instant drill down capabilities to the individual pour. An alerting engine

based on key performance indicators enables management to focus on the issues, instead of getting lost in all the data. Features include:

- Management reports and analytics
- Scalable for unlimited bars and users
- Web interface
- User-based data restrictions
- User-definable reporting engine
- Dynamic drill down and graphical reports
- Key performance indicators

Many reports are graphical, using charts and bar graphs to view slices of information. The data aggregation hierarchies can have unlimited levels and views of data can be determined by the security level for each user. Properties can also be aggregated to provide views for regional and corporate management.

Hardware

Capton hardware captures and transmits pour data from your outlet to the dedicated Capton PC on property, and then to the data center.

Electronic Spout

The spout contains electronics, sensors and a battery. The battery is non-replaceable. The spouts contain an internal transmitter and antenna that communicates at 433 MHz. The spouts are encased in a hard polycarbonate shell and cannot be programmed or modified without destroying the casing.

Specifications

Dimensions:	1.50" x 3.40"
Diameter:	1.75"
Weight:	1.4 oz.
Power Consumption:	3 Volts
Power Source:	Internal CR2 3-Volt Lithium Ion Battery

Ethernet Receiver

This receiver contains three connectors; power, F-type screw connector (for antenna) and RJ45 port. The unit is a solid-state appliance and contains no operating system. The unit has a built in memory buffer capable of storing 2,000 events (bottle on/off, pour). If power is disabled, events in memory are stored until power is



restored. Documentation on accessing and configuring the Ethernet units is contained in Appendix A of this document.

The unit is capable of DHCP or Fixed IP settings (only Fixed IP is supported). The unit is programmed through plugging a computer with a crossover cable and establishing a telnet session. A physical switch on the receiver needs to be pressed to set the unit to a programmable state. The unit requires a programmable password to be entered into the unit before unit settings can be changed. The unit is set with a fixed IP and selectable port to communicate with destination software.

Specifications

Model:	33D42900
Dimensions:	5.1" x 5.1" x 1.5"
Weight:	10.5 oz. w/o power adapter
Weight, Power Adapter:	9.0 oz.
Power Consumption:	120 V AC 60 Hz
Power Input:	6 V DC 600 mA
Network Connector:	RJ45
Network Handling:	DHCP or Fixed IP
Communication Protocol:	TCP/IP

Dedicated PC

The Capton system requires a dedicated PC on property, to gather and transmit pour data to the Capton data center. Capton configures the PC, and it runs in the background, continuously gathering data from the receiver, performing some preliminary calculations, and transmitting its results to the Capton data center.

System Requirements

Dedicated Computer/VM

Operating system:	Windows XP or 7 (32bit)
RAM:	2GB
Hard Drive Space:	200 GB
Processor:	Intel® Core 2 Duo
LAN Connectivity:	Ethernet

Local Administrator Account

Port 3000 access allowed to “ActiveTransport” program.

LogMeIn service running (licensed to and installed by Capton)

Port open to access Capton cloud system (IP & port to be determined)

Wireless Communication

433 MHz Unidirectional Radio Burst Transmission

The spout is certified with the FCC. The spouts transmit and do not receive. Spouts transmit in a proprietary Capton hexadecimal sequence. The transmission is eight times in a fraction of a second with a randomizer before transmitting. The data is non-telemetric using on/off keying (similar to Morse code). This data by itself is hexadecimal values that contain no useable information without the Capton database.

Known Interference

The only known potential electronics devices that the spouts may interfere with are wireless earphones commonly used by musicians on stage. In this scenario the earphones pick up a series of clicks (like Morse code). The earphones cause no interference with the spouts and receivers. In this scenario, it is recommended that the wireless earphones be changed to operate on a frequency other than 433 MHz.

Installation Responsibilities

We work closely with your team to deploy the Capton system at each outlet. But there are a few things you need to do, too.

Client Responsibilities

- Provide all necessary computing equipment in order to run Capton software (see specifications on hardware requirements above)
- Load all base operating system software and relevant operating system patches to the computing equipment prior to Capton installation arrival.
- Provide appropriate computer user access privileges on computing equipment to allow for the installation of Capton software (includes database, services, processes and application software) and to allow Capton to access the software functions. Typically this needs to be admin or super user privileges.
- Provide Capton with remote access to computer via Capton corporate LogMeIn or property-provided solution.
- Provide appropriate network access for the computing equipment and for Capton Ethernet receivers and mobile receivers (port 3000 open on Capton computer).
- Provide and install all Cat 5/6 cable from the receiver location to the point of network connectivity. (CAT 5e/6 cable should never exceed 300 feet in length.)
- Provide at least one standard 120V power outlet for any receiver.
- Provide a “surge protector” per power outlet used for any receiver.

Capton Responsibilities

- Provide information to client so that appropriate pre-installation activities can occur (this guide is one of those resources).
- Install all Capton specific software.
- Program and configure all Capton specific hardware.
- Install spouts on liquor bottles available at the time of installation.
- Configure spouts into Capton software.
- Test and verify the connection and operation of Capton system, from spouts to data center.

Additional Information

For additional information, support, including video and print training materials, please visit our website or contact the Capton data center.

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