

Friday, September 18, 2009

## **Executive Summary**

Control4® Suite Systems is the first standards-based automation and entertainment control technology for hotel and resort owners, providing a complete “*Door to Drape*” solution. Operating as an IEEE standards based automation system, the Control4® solution seamlessly interacts with hotel property management systems and hotel networks, enabling communication between electronic devices from virtually any vendor. These devices may include automated room drapes or shades, mini-bar automation, HVAC control, security and access management, and many more. Control4® solutions are based on Ethernet, Wi-Fi, and ZigBee technology standards that adhere to strict safety guidelines. All products are FCC, UL, CE and RoHS certified.

Using a single remote or touch screen, hotel guests will be able to control drapery, lighting, room temperature, room status, television, music, and video on demand systems. Using the same remote or touch screen, guests can schedule wake-up calls and make requests for services such as valet, housekeeping, room service, spa treatments and more. A hotel suite powered by Control4® Suite Systems may include the following.

### ▪ Smart Lighting

Control4® Suite Systems can automate the lights using our Wireless Dimmer or Switch. Suite Systems programs the Suite lighting to come on when needed and go off when not needed, giving you an easy and automatic way to save energy. Another great way to save energy is to set a lighting threshold, whereby all lights operate up to a maximum percentage. All lighting products are equipped with customizable LED's. Control4's® Wireless Outlet Modules allow lamps in the room to be automated and controlled bedside with a keypad, touch screen, or handheld remote control via our custom UI.

### ▪ Advanced Temperature Control

Heating and air conditioning can easily be turned down or off when guest room is unoccupied, saving your bottom line each year by not having HVAC systems running in un-occupied rooms. A Control4® Suite System thermostat allows control of room temperature through wireless keypads, handheld remote, on-screen TV interface, or touch screen allowing your guest to adjust temperature settings from the comfort of their own bed. When incorporated with the hotel PMS system, temperature settings can adjust based on *Checked In* or *Checked Out* status.

- TV

Using a single hand held remote, guests can easily select TV stations or video on demand content using intuitive graphical icons. In addition the system integrates seamlessly with a variety of video content providers. Our on-screen high definition user interface provides simple control of the entire room via the TV and handheld remote control. In addition Suite Systems provides a dynamic HD screen saver when the TV is on, but not in use. All on-screen graphics have the option be themed specifically for the property.

- Drapery Control

Guests can open or close drapes, shades or sheers from the comfort of their bed utilizing the TV, keypad, or touch screen interface. Wireless ambient light sensors in the room can automatically adjust drapes or sheers to maintain the guest's preferred amount of light. Control4 Wireless Relay's enable control of both drapes and sheers reducing conduit and labor expenses.

- Custom Wake Up Scene

Custom Wake Up Scenes can be enabled by the hotel guest to set lights, a specific television station, or music to turn on at a set time changing the guest experience from a ringing phone to a unique relaxing experience. Wake-up modes can also incorporate lighting, temperature and draperies. Control4's® color touch screen can also act as a bedside clock when in screen saver mode.

- Green Settings

Guests can set room preferences such as privacy and green features from any touch screen or TV in the room. The Green feature button allows guests to request housekeeping services, turn off linen and towel service, create their personal lighting and thermostat set backs or choose the hotel's preferred Green settings. In addition, a master suite on/off switch can be placed near the door to provide the guest or housekeeping an option to "shut down" the room when un-occupied or when leaving the room for the day.

- Hotel Services at the Click of a Button with Control4 Concierge Connection®

From a touch screen or in room television, guests can request services from the bellman's desk, valet, spa reservations, golf club rentals and tee times, front desk services, and more. Dinner reservations, room service, or off-site dining options via Open Table can also be requested using Concierge Connection. All reservations are made real time and updated on the in

room UI automatically. An event scheduler for hotels hosting conventions notifies the guest of upcoming meetings, dinners, or any reservations they have made with hotel amenities. Yahoo News and Stock updates can be accessed through the television UI or touch screen concierge menu. Local Weather updates courtesy of the Weather Channel are also available in this menu. Hotel management is able to customize all on-screen information and graphics with a powerful backend management tool, all part of the completely IP based Control4 Concierge Connection®.

Control4® Suite Systems provides a tool that allows your business to automatically conserve energy, resulting in an immediate and positive impact on your bottom line. Imagine the money you can save when, upon guest check-out, the room automatically goes to an unoccupied status: turning down or off the heating/cooling system, televisions, lights and any appliances. In addition, Control4's® standards-based system maximizes construction cost savings by eliminating nearly all low-voltage wiring and reducing the conduit, labor, and material for control and lighting systems. Control4® Suite Systems is environmentally focused, helping to deliver LEED Certification points in most cases. Control4® Hotel Management Console and Hospitality Dashboard provide remote property management, control, and service from any internet connection.

Control4® Suite System's "Hospitality Dashboard" is a web-based application that integrates with property management systems to check in/check-out guests and deliver special services. This tool is also used to provision and manage guest rooms and alert technical systems to problems or low batteries in remotes. It can be implemented on-site or from a remote monitoring location.

## **Project Team and Organization Chart**

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Antonio DiMilia – Vice President of Hospitality  
Jim Gist – Vice President of Commercial Development  
Greg Wright – Senior Manager Hospitality Operations  
Bryn Morrison – Senior Hospitality Specialist  
Doug Park – Hospitality Sales & Operations Specialist  
Brian Ross – Hospitality Sales & Operations Specialist  
Justin Bench – Senior Hospitality Technical Specialist

## Sample High Definition User Interface Screen Shots



**Control4 Suite Systems Property Portfolio**

