CEDIA and the Digital Home

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Seminar Overview

- Electronic Home Entertainment and Control Basics
- Infrastructure Requirements
- Control Devices
- Copyright/Digital Rights Management (DRM)
- Case Study
Real-Life Scenario
Home Irrigation Control

System Mode:
- Off
- Run Program
- Manual

Zone Status:
All Zones Off

Morning Period Schedule:
- Start Time: 9:00 PM

<table>
<thead>
<tr>
<th>Zone</th>
<th>Base Time</th>
<th>Application Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patio Plants</td>
<td>7 Minutes</td>
<td>7 Minutes, 0 Sec</td>
</tr>
<tr>
<td>Street Plants</td>
<td>15 Minutes</td>
<td>15 Minutes, 0 Sec</td>
</tr>
<tr>
<td>Master Bedroom R.</td>
<td>10 Minutes</td>
<td>10 Minutes, 0 Sec</td>
</tr>
<tr>
<td>Azaleas</td>
<td>10 Minutes</td>
<td>10 Minutes, 0 Sec</td>
</tr>
<tr>
<td>Dog Run</td>
<td>8 Minutes</td>
<td>6 Minutes, 0 Sec</td>
</tr>
<tr>
<td>Michelle's Roses</td>
<td>20 Minutes</td>
<td>20 Minutes, 0 Sec</td>
</tr>
<tr>
<td>Golf Course Plants</td>
<td>5 Minutes</td>
<td>5 Minutes, 0 Sec</td>
</tr>
<tr>
<td>Pool Plants</td>
<td>7 Minutes</td>
<td>7 Minutes, 0 Sec</td>
</tr>
<tr>
<td>Entry Plants</td>
<td>9 Minutes</td>
<td>9 Minutes, 0 Sec</td>
</tr>
<tr>
<td>Tall Trees</td>
<td>7 Minutes</td>
<td>7 Minutes, 0 Sec</td>
</tr>
</tbody>
</table>

Days to Water Plant:
- Days in Month
- Days of Week
- Every Day
- Skip Days

(cyberManor)
iControl Portal

Check out the new features in the My Account button and support for new devices such as Thermost...
IP Camera Interface
Applications That Fuel Home Networking Demand
Evolution of A/V/Data Solutions

The Evolution of Networking

Household Penetration vs Time and Capability

Computer Networking

Distributed Entertainment, Data, and Voice

Whole-House Control

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Yesterday’s Basic Home Network

circa 2002
The Digital Media “Big Bang”
IP-Wired Audio Network

Wired Distributed Audio

- C4 System Remote Control
- C4 Zigbee LCD Keypad
- Wireless Zigbee
- C4 Multi Tuner
- Audio Source Equipment
- C4 Audio Matrix Switch
- C4 Multi Channel Amplifier
- Receiver
- Audio Point
- Speaker Point
- C4 Ethernet Mini Touch Screen
- C4 Power Over Ethernet Injector
- 110VAC
- Ethernet
- Speaker Wire
- Line Level Audio

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Today's Integrated IP-Based Home Network

circa 2008
Entry Level A/V Receivers (<$350)
Mid-level Network Media Servers ($1K - $5K)
High-End Media Servers (> $5K)
Control Devices

- Universal handheld button-based or touch-screen remote controls
- In-wall button or touch-screen controls
- On-screen displays controllable by a handheld remote
- Personal Digital Assistants/Web-enabled phones
Computer or PDA/iPhone User Interface
In-Wall Touch-screen User Interface

[Images of different user interfaces and controls]
Copyright
Key Concepts

- There are multiple audio and video formats being used today. Devices must be capable of decoding the ones being used.

- Digital Rights Management and Copyright issues will become major issues as more and more people are using digital content.
Microsoft Ultimate Installation Winner
Family Room TV
Touchscreen Computer in the Kitchen
TV in the Master Bathroom
Thermostat Farm and Wall Keypads
Equipment Rack – Front and Rear
Key Concepts

- A true electronic home will allow all electronic devices in the user’s environment to communicate seamlessly.
- Digital audio/video solutions allow one device to serve content to many zones in the home.
- Home electronic entertainment is a growing market.
- The switch is the central concept in any electronic home.
Questions and Answers

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