Introduction

GE Current, a Daintree company, enables intelligent environments with a powerful combination of LED lighting solutions, digital controls and energy management. The purpose of this guide is to provide recommendations for deploying the Daintree™ wireless lighting controls in compliance with the 2015 International Energy Conservation Code (IECC).

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**IECC 2015**

The IECC establishes minimum requirements for energy-efficient buildings using prescriptive- and performance-related provisions. For more information, visit codes.iccsafe.org.

The recommendations in this document are based on our understanding and interpretation of the code. In order to ensure full compliance, please reference the official published code.
Daintree Wireless Controls

The Daintree wireless solution suite includes wireless lighting controls, edge hardware devices and an intuitive web-based software platform. Our three levels of Daintree wireless controls are upgradeable, cost-effective and, most importantly, code-compliant. For those interested in a wired solution, LightSweep® offers a reliable and scalable solution.

Daintree wireless controls are available integrated and preinstalled in many Current lighting fixtures. For a complete list of integrated sensors, look for the Daintree Wireless Controls icon on the product pages on geCurrent.com.

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*Via BACNet
### LIGHTING CONTROL STRATEGIES

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>CONTROL STRATEGY</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Symbol" /></td>
<td>Occupancy/Vacancy</td>
<td>IECC 2015 requires the use of sensors to detect the presence of people in a given area. Sensors may be used in the following ways:</td>
</tr>
<tr>
<td><img src="image2.png" alt="Symbol" /></td>
<td>Manual-On</td>
<td>Manual control involves a switch and/or dimmer that overrides automatic and scheduled lighting behavior. Manual control is necessary in most areas but not all. Any override initiated via manual control may, by code, last up to two hours, after which the lighting will revert to its programmed behavior.</td>
</tr>
<tr>
<td><img src="image3.png" alt="Symbol" /></td>
<td>Auto-On</td>
<td>Lights in the area automatically illuminate upon entry. Set auto-on light levels below 100% for increased energy savings. If additional light is necessary, brightness can be manually increased if manual controls are present.</td>
</tr>
<tr>
<td><img src="image4.png" alt="Symbol" /></td>
<td>Auto-Off</td>
<td>IECC 2015 requires a maximum auto-off delay of 30 minutes for applicable areas. Decrease this time to maximize energy savings.</td>
</tr>
<tr>
<td><img src="image5.png" alt="Symbol" /></td>
<td>Auto-Partial Off</td>
<td>In certain environments (such as open offices or egress stairwells), it is allowed and desirable to dim lights rather than turn them off when the area is vacant. The off-delay time is a maximum of 30 minutes.</td>
</tr>
<tr>
<td><img src="image6.png" alt="Symbol" /></td>
<td>Demand Response</td>
<td>The control system has the capability of automatically reducing lighting power when a participating utility sends a peak demand signal. Daintree can also adjust integrated HVAC systems to reduce energy during peak demand times.</td>
</tr>
<tr>
<td><img src="image7.png" alt="Symbol" /></td>
<td>Emergency Fixture</td>
<td>Emergency fixtures are required by building codes and may be powered by a fixture-integrated battery backup or unswitched power circuit. To fully control an emergency fixture/zone without impeding its function during a power loss event, an automatic load control relay must be used to disable the control signal and switch the fixture/zone to emergency power.</td>
</tr>
<tr>
<td><img src="image8.png" alt="Symbol" /></td>
<td>Daylight Harvesting</td>
<td>IECC 2015 requires lights near windows and skylights to dim automatically and take advantage of sunlight entering the building. Photosensors in each zone are required to keep light levels consistent. The areas where this is necessary are daylighting zones, which have specific dimensions based on window size and ceiling height. For an in-depth explanation of these zones, see page 10 of this guide.</td>
</tr>
</tbody>
</table>

### LIGHTING CONTROL STRATEGIES

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<th>CONTROL STRATEGY</th>
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<tbody>
<tr>
<td><img src="image9.png" alt="Symbol" /></td>
<td>Scheduling</td>
<td>IECC 2015 allows or requires adjustment of lighting behavior based on normally occupied days/times. This is often in lieu of occupancy controls in areas (e.g., atriums) that may not be conducive to occupancy sensors. The controls system must be able to account for days of the week and holiday overrides.</td>
</tr>
<tr>
<td><img src="image10.png" alt="Symbol" /></td>
<td>Top Trimming</td>
<td>LED lights are extremely efficient and may project more light than expected, even when considering their lumen rating. Top trimming limits the maximum power of the luminaire to save additional energy and extend the life of the chips and driver. As time goes on, trimming can be removed or reduced to increase light levels as a fixture ages.</td>
</tr>
<tr>
<td><img src="image11.png" alt="Symbol" /></td>
<td>Scene Control</td>
<td>Scene control is a helpful and efficient way to create custom dimming levels for different areas of the room. Although not explicitly required by any energy codes, this strategy meets bilevel dimming requirements and is popular in conference rooms for presentations.</td>
</tr>
<tr>
<td><img src="image12.png" alt="Symbol" /></td>
<td>Zonal</td>
<td>A zonal design wires multiple lights together as a single control group. Zonal control groups are fixed in place and must be rewired if changes are necessary.</td>
</tr>
</tbody>
</table>

*In a zonal scheme, the Daintree wireless lighting control adapter (WAPM) can govern 10 or more fixtures. Note that a single WAPM cannot be used to control fixtures on two different circuits.*

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<thead>
<tr>
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<th>CONTROL STRATEGY</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image13.png" alt="Symbol" /></td>
<td>Granular</td>
<td>A granular lighting design provides independent control of fixtures and requires the least amount of effort to deploy. Granular control allows the highest level of flexibility as lighting zones can be redefined and reprogrammed at any time. This scheme requires more equipment than a zonal design. In all cases, it is best to consult with a lighting estimator who can help optimize product and installation strategy.</td>
</tr>
</tbody>
</table>
Daintree System Symbol Guide

**WALL DEVICES**

- Wireless wall dimmer (WWD1)
- EZ Connect wireless wall dimmer switch (ZBT-STAWH)

**OCCCUPANCY SENSORS**

- Wireless PIR occupancy sensor (WSOS2-RM-E)
- Wireless PIR occupancy sensor (WSOS2-CM-E)
- Wireless PIR occupancy sensor (WSOS2-WM-L)
- Integrated fixture control with daylight and occupancy (WIZ100)
- High bay sensor (WHB20)
- EZ Connect multisensor adapter (WIT100)

**PHOTOCELL**

- Wireless photocell (WPS1)

**WIRELESS NETWORKED AREA CONTROLLER**

- Wireless area controller (WAC60)
- High bay sensor (WHB20)

**ADAPTERS**

- Wireless lighting control adapter (WAC60-P01)
- Wireless fixture adapter (WAC100-5N)
- Wireless high bay adapter (WHB100)
- Wireless PIR occupancy sensor (WSOS2-WM-W)
- Wireless general adapter (WGA100)
- Wireless sensor adapter (WSA10)
- NON-Zigbee-enabled luminaire with room, zone, device labeling
- Phase to 0-10V converter (LDCM-PL-120-277-010V-GR)
- Receptacle control or 2-pole lighting AUX
- Receptacle control WGA
- Receptacle control or 2-pole lighting AUX with fixture

**OTHER EDGE DEVICES**

- Wireless thermostat (WTS10)
- Zigbee-enabled luminaire with room, zone, device labeling
- Automatic load control relay (0-10V) (BRU-X-LUVW)
- Aux switch (BZ200/250) Receptacle control or 2-pole lighting
- Phase to 0-10V converter (LDCM-PL-120-277-010V-GR)
Daylight Zone Requirements

**DAYLIGHT ZONE REQUIREMENTS**
- Sidelight daylight zones should be controlled separately from toplighted zones.
- The north, south, east and west zones should be controlled separately.
- Rooms such as classrooms, office spaces, labs and libraries must continuously dim to ≤ 15%.

**SIDELIGHTING (WINDOW)**

**TOPLIGHTING (SKYLIGHT)**

**DAYLIGHT ZONE EXCEPTIONS**
- Total lighting power is 150W or less.
- Total glazing area is 24 sq. ft. or less.
- Space types include healthcare patient areas, sleeping units and special application lighting.
- There may be additional exceptions based on space type, window area, neighboring obstructions and glass transmittance.

**Please refer to the energy code.**

**How to Use This Guide**

**Room type**

**Configuration**

**List of control strategies being deployed in this scenario**

**Description of the lighting behavior for the space**

**Wiring diagram showing the light fixtures, placement of control devices and line voltages**

**Bill of materials for the solution being described**
Atrium Daintree Networked

- 4–WA100-PM-Wireless lighting control adapter
- 3–WWD1-Wireless wall dimmer
- 2–WOS2-CM-E-Wireless PIR occupancy sensor
- 2–WPS1-Wireless photocell

- Each WA100-PM is capable of supporting 5mA sink or source on its 0–10V dimming circuit and can provide on/off via its line-voltage relay. Ensure zones are designed with respect to the lighting drivers used.
- Emergency zones should be fitted with an automatic load control relay (per WA100-PM), which would bypass normal controls and cause the light level to change to 100% after a loss of normal power.

**SOLU**

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<thead>
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<th>Description</th>
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<td>WAC60**</td>
<td>Wireless area controller</td>
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</table>

*Top trimming maximum light output is not required by code, but is a recommended practice for energy savings.

**Optional, can be used for scene control or control of more than one WA100-PM instead of or in addition to a WWD1.

***Daintree Networked leverages a wireless area controller (WAC60) and can support 175 nodes per WAC60. Multiple rooms can connect to the Daintree Networked platform using a WAC60.

Note: A node is any Daintree wireless device that connects and communicates to the system.
Break Room

**Control Strategies**

**Occupancy/Vacancy Control**

**Manual-On**

**Top Trimming**

**Lighting Behavior**
- Lights turn on automatically to 50% when an occupant enters the space. Max light level trimmed to 80%.
- Occupants may use wall dimmers to set desired light levels.
- All lights automatically turn off within 30 minutes after all occupants exit.

**Solution Components**

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**Daintree Networked leverages a wireless access controller (WAC60) and can support 175 nodes per WAC60. Multiple rooms can connect to the Daintree Networked platform using a WAC60.**

**Note:** A node is any Daintree wireless device that connects and communicates to the system.
**LIGHTING BEHAVIOR**

- Lights turn on automatically to 50% when an occupant enters the space. Max light level trimmed to 80%.
- Occupants may use wall dimmers to set desired light levels.
- All lights automatically turn off within 30 minutes after all occupants exit.

**SOLUTION COMPONENTS**

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* Top trimming maximum light output is not required by code but is a recommended practice for energy savings.
** Optional; can be used for scene control or control of more than one WA100-PM instead of or in addition to a WWD1.
*** Order Lumination fixtures with “TZ” catalog logic for sensors preinstalled in fixtures.
**** Daintree Networked leverages a wireless access controller (WAC60) and can support 175 nodes per WAC60. Multiple rooms can connect to the Daintree Networked platform using a WAC60.
Break Room Daintree EZ Connect

- 6–WIT100 - Integrated fixture control with daylight and occupancy
- 1–ZBT-S1AWH - Wireless dimmer switch

- Many Lumination® LED luminaires come preinstalled with WIT100 sensors and can be ordered with Daintree EZ Connect “TT” Controls Catalog logic. For a complete list of Daintree Integrated Fixtures, visit gecurrent.com.

**CONTROL STRATEGIES**

**OCCUPANCY/VACANCY CONTROL**

**TOP TRIMMING**

- Lights turn on automatically to 50% when an occupant enters the space. Max light level trimmed to 80%.
- Occupants may use wall dimmers to set desired light levels.
- All lights automatically turn off within 30 minutes after all occupants exit.

**SOLUTION COMPONENTS**

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* Top trimming maximum light output is not required by code but is a recommended practice for energy savings.

** Note:** Daintree EZ Connect devices can be custom programmed using the Daintree EZ Connect App and is available on the Apple® App Store.
Conf \ a, d1

Conf \ b, d1

Conf \ b, d1

Conf \ b, d1

Conf \ b, d1

Conf \ b, d1

Daylight Zone

Line-Voltage Wiring

Low-Voltage Wiring

Window

Conference Room Daintree Networked

2–WA100-PM-Wireless lighting control adapter

1–WWD1-Wireless wall dimmer

1–WOS2-CM-E-Wireless PIR occupancy sensor

1–WPS1-Wireless photocell

• Each WA100-PM is capable of supporting 5mA sink or source on its 0–10V dimming circuit and can provide on/off via its line-voltage relay. Ensure zones are designed with respect to the lighting drivers used.

SOLUTION COMPONENTS

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<td><img src="image4" alt="Wireless photocell" /></td>
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<td><img src="image5" alt="Wireless 3-button switch" /></td>
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* Top trimming maximum light output is not required by code but is a recommended practice for energy savings.

** Optional; can be used for scene control or control of more than one WA100-PM instead of or in addition to a WW100.

*** Daintree Networked leverages a wireless access controller (WAC60) and can support 175 nodes per WAC60. Multiple rooms can connect to the Daintree Networked platform using a WAC60.

Note: A node is any Daintree wireless device that connects and communicates to the system.
**Conference Room**

**SOLUTION COMPONENTS**

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**CONTROL STRATEGIES**

- **OCCUPANCY/VACANCY CONTROL**
- **DAYLIGHT HARVESTING**
- **TOP TRIMMING**
- **SCENE CONTROL**

**LIGHTING BEHAVIOR**

- Lights turn on automatically to 50% when an occupant enters the space. Max light level trimmed to 80%.
- Lights adjust brightness based on daylight availability while the room is occupied. There is one perimeter daylighting zone.
- Occupants may use wall dimmers to set desired light levels.
- All lights automatically turn off within 30 minutes after all occupants exit.

**SOLUTION COMPONENTS**

- Many Lumination® LED luminaires come preinstalled with WIZ100 sensors and can be ordered with Daintree Networked “TZ” Controls Catalog logic. For a complete list of Daintree Integrated Fixtures, visit gecurrent.com.

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*Top trimming maximum light output is not required by code but is a recommended practice for energy savings.

**Optional; can be used for scene control or control of more than one WA100-PM instead of or in addition to a WWD1.

***Order Lumination fixtures with “TZ” catalog logic for sensors preinstalled in fixtures.
Conference Room

Daintree EZ Connect

**SOLUTION COMPONENTS**

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<td><img src="Image" alt="WIT100" /></td>
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<td>ZBT-S1AWH</td>
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</table>

* Top trimming maximum light output is not required by code but is a recommended practice for energy savings.

** Order Lumination fixtures with “TT” catalog logic for sensors preinstalled in fixtures.

**Note:** Daintree EZ Connect devices can be custom programmed using the Daintree EZ Connect App and is available on the Apple® App Store.

**CONFERENCE ROOM Daintree EZ Connect**

- 8–WIT100–Integrated fixture control with daylight and occupancy
- 1–ZBT-S1AWH–Wireless dimmer switch

- Many Lumination® LED luminaires come preinstalled with WIT100 sensors and can be ordered with Daintree EZ Connect “TT” Controls Catalog logic. For a complete list of Daintree Integrated Fixtures, visit gecurrent.com.

**CONTROL STRATEGIES**

**OCCUPANCY/VACANCY CONTROL**

**TOP TRIMMING®**

- Lights turn on automatically to 50% when an occupant enters the space. Max light level trimmed to 80%.
- Lights adjust brightness based on daylight availability while the room is occupied. There is one perimeter daylighting zone.

**DAYLIGHT HARVESTING**

- Occupants may use wall dimmers to set desired light levels.
- All lights automatically turn off within 30 minutes after all occupants exit.

**LIGHTING BEHAVIOR**

**MANUAL-ON**

- Lights turn on automatically to 50% when an occupant enters the space. Max light level trimmed to 80%.
- Lights adjust brightness based on daylight availability while the room is occupied. There is one perimeter daylighting zone.

**Note:** Daintree EZ Connect devices can be custom programmed using the Daintree EZ Connect App and is available on the Apple® App Store.
**Egress Corridor**

**Option 1—Single Fixture Emergency Generator Circuit**

- 2-WA100-PM—Wireless lighting control adapter
- 2-WWD1—Wireless wall dimmer
- 1-WOS2—Wireless PIR occupancy sensor
- 1-RRU-X—Automatic load control relay (0–10v)

**Option 2—Multiple Fixture Emergency Generator Circuit**

- 2-WA100-PM—Wireless lighting control adapter
- 2-WWD1—Wireless wall dimmer
- 1-WOS2—Wireless PIR occupancy sensor
- 1-RRU-X—Automatic load control relay (0–10v)

**Notes:**
- Each WA100-PM is capable of supporting 5mA sink or source on its 0–10V dimming circuit and can provide on/off via its line-voltage relay. Ensure zones are designed with respect to the lighting drivers used.
- Add a daylight sensor for corridors with daylight zones.
- Emergency fixtures may require an automatic load control relay (per WA100), which would bypass normal controls and cause the light level to change to 100% after a loss of normal power.
- Emergency fixture will dim but not turn off.
- If full-off is desired, a separate wireless adapter may be used at the emergency fixture. Locating the WA100 for the zone at the emergency fixture will also allow for this. An automatic load control relay will be required.

**CONTROL STRATEGIES**

**OCCUPANCY/VACANCY CONTROL**

- Lights turn on automatically to maximum when an occupant enters.
- Occupants may use wall dimmers to set desired light levels.
- Lights connected to emergency circuits default to 100% output during a power loss.
- Lights on nonemergency circuits turn off when the area is vacant for at most 30 minutes.

**LIGHTING BEHAVIOR**

- Lights turn on automatically to maximum when an occupant enters.
- Occupants may use wall dimmers to set desired light levels.

**EMERGENCY LIGHTING**

- Option 1—Single Fixture Emergency Generator Circuit
- Option 2—Multiple Fixture Emergency Generator Circuit

**SOLUTION COMPONENTS**

<table>
<thead>
<tr>
<th>Picture</th>
<th>Symbol</th>
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<th>Description</th>
<th>Quantity</th>
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<td>RRU-X-UNV</td>
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* Top trimming maximum light output is not required by code but is a recommended practice for energy savings.

**Daintree Networked leverages a wireless access controller (WAC60) and can support 175 nodes per WAC60. Multiple rooms can connect to the Daintree Networked platform using a WAC60.**

**Notes:** A node is any Daintree wireless device that connects and communicates to the system. When the RRU-X senses loss of regular power, the RRU-X disconnects the 0–10V output from the WA100-PM and the emergency light fixture operates at maximum output from the emergency power circuit. If the RRU-X is not installed, the emergency fixture will dim to minimum because the WA100-PM 0–10V output shorts when the adapter loses power.

Ceiling sensors can be used in place of wall-mount sensors.
Egress Corridor Daintree Networked

1–WA100-PM - Wireless lighting control adapter
2–WWD1 - Wireless wall dimmer
1–WOS2-WM-L - Wireless PIR occupancy sensor

- Each WA100-PM is capable of supporting 5mA sink or source on its 0–10V dimming circuit and can provide on/off via its line-voltage relay. Ensure zones are designed with respect to the lighting drivers used.
- Add a daylight sensor for corridors with daylight zones.
- Emergency fixtures may require an automatic load control relay (per WA100), which would bypass normal controls and cause the light level to change to 100% after a loss of normal power.
- Emergency fixture will dim but not turn off.
- If full-off is desired, a separate wireless adapter may be used at the emergency fixture. Locating the WA100 for the zone at the emergency fixture will also allow for this. An automatic load control relay will be required.

**LIGHTING BEHAVIOR**

- Lights turn on automatically to maximum when an occupant enters.
- Occupants may use wall dimmers to set desired light levels.
- Lights connected to emergency circuits default to 100% output during a power loss.
- Lights on nonemergency circuits turn off when the area is vacant for at most 30 minutes.

**SOLUTION COMPONENTS**

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Egress Corridor

Emergency Generator Circuit

Line-Voltage Wiring

Egress Corridor Daintree One
5–WIZ100—Integrated fixture control with daylight and occupancy

CONTROL STRATEGIES

OCCUPANCY/VACANCY CONTROL

EMERGENCY LIGHTING

TOP TRimming

LIGHTING BEHAVIOR

• Lights turn on automatically to maximum when an occupant enters.
• Occupants may use wall dimmers to set desired light levels.
• Lights connected to emergency circuits default to 100% output during a power loss.
• Lights on nonemergency circuits turn off when the area is vacant for at most 30 minutes.

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ENERGY CODE SOLUTION GUIDE

Egress Stairwell

**On Dedicated Emergency Circuit**

- **Lights turn on automatically to maximum when an occupant enters.**
- **Lights connected to emergency circuits default to 100% output during a power loss.**
- **Lights dim to 10% when the area is vacant for at most 30 minutes.**

**CONTROL STRATEGIES**

**OCCUPANCY/VACANCY CONTROL**

**EMERGENCY LIGHTING**

**TOP TRIMMING**

- Lights turn on automatically to maximum when an occupant enters.
- Lights connected to emergency circuits default to 100% output during a power loss.
- Lights dim to 10% when the area is vacant for at most 30 minutes.

**SOLUTION COMPONENTS**

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**Daintree Networked leverages a wireless access controller (WAC60) and can support 175 nodes per WAC60. Multiple rooms can connect to the Daintree Networked platform using a WAC60.**

**Notes:**
- A node is any Daintree wireless device that connects and communicates to the system.
- When the RRU-X senses loss of regular power, the RRU-X disconnects the 0–10V output from the WA100-PM and the emergency light fixture operates at maximum output from the emergency power circuit. If the RRU-X is not installed, the emergency fixture will dim to minimum because the WA100-PM 0–10V output shorts when the adapter loses power.
- Ceiling sensors can be used in place of wall-mount sensors.
Egress Stairwell

On Dedicated Emergency Circuit

CONTROL STRATEGIES

EMERGENCY LIGHTING

• Lights turn on automatically to maximum when an occupant enters.
• Lights connected to emergency circuits default to 100% output during a power loss.
• Lights dim to 10% when the area is vacant for at most 30 minutes.

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** Daintree Networked leverages a wireless access controller (WAC60) and can support 175 nodes per WAC60. Multiple rooms can connect to the Daintree Networked platform using a WAC60.

Notes:
- A node is any Daintree wireless device that connects and communicates to the system.
- When the RRU-X senses loss of regular power, the RRU-X disconnects the 0–10V output from the WA100-PM and the emergency light fixture operates at maximum output from the emergency power circuit. If the RRU-X is not installed, the emergency fixture will dim to minimum because the WA100-PM 0–10V output shorts when the adapter loses power.
- Ceiling sensors can be used in place of wall mount sensors.
LIGHTING BEHAVIOR

- Lights turn on automatically to maximum when an occupant enters.
- Lights connected to emergency circuits default to 100% output during a power loss.
- Lights dim to 10% when the area is vacant for at most 30 minutes.

SOLUTION COMPONENTS

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<tr>
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<td>WIZ100</td>
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**LIGHTING BEHAVIOR**

- Lights turn on automatically to maximum when an occupant enters.
- Occupants may use wall dimmers to set desired light levels.
- All lights automatically turn off within 30 minutes after all occupants exit.
- Lights connected to emergency circuits default to 100% output during a power loss.

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** Daintree Networked leverages a wireless access controller (WAC60) and can support 175 nodes per WAC60. Multiple rooms can connect to the Daintree Networked platform using a WAC60.

Note: A node is any Daintree wireless device that connects and communicates to the system.
Open Office Daintree Networked

2–WA100-PM—Wireless lighting control adapter
1–WWD1—Wireless wall dimmer
4–WOS2-CM-E—Wireless PIR occupancy sensor
1–WPS1—Wireless photocell

- Each WA100-PM is capable of supporting 5mA sink or source on its 0–10V dimming circuit and can provide on/off via its line-voltage relay. Ensure zones are designed with respect to the lighting drivers used.
- Each control zone must be no larger than 600 sq. ft.
- All control zones in the open office area must be turned off if no activity is detected in any zone for 30 minutes.
- Emergency fixtures may require an automatic load control relay (per WA100-PM), which would bypass normal controls and cause the light level to change to 100% after a loss of normal power.

Daylight Zone

- Lights turn on automatically when an occupant enters the zone.
- Lights adjust brightness based on daylight availability while the room is occupied. There is one perimeter daylighting zone.
- Occupants may use wall dimmers to set desired light levels.

Emergency Lighting

- Lights turn off when a zone is vacant for at most 30 minutes.
- Lights connected to emergency circuits default to 100% output during a power loss.

SOLUTION COMPONENTS

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<tr>
<th>Picture</th>
<th>Symbol</th>
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** Daintree Networked leverages a wireless access controller (WAC60) and can support 175 nodes per WAC60. Multiple rooms can connect to the Daintree Networked platform using a WAC60.

Notes: A node is any Daintree wireless device that connects and communicates to the system. Adapters can be wired to additional fixtures on same circuit. Ensure fixtures wattage and mA loads stay below adapter electrical ratings.
**Open Office Daintree Networked**

- Each control zone must be no larger than 600 sq. ft.
- All control zones in the open office area must be turned off if no activity is detected in any zone for 30 minutes.
- Many Lumination ® LED luminaires come preinstalled with WIZ100 sensors and can be ordered with Daintree Networked “TZ” Controls Catalog logic. For a complete list of Daintree Integrated Fixtures, visit ge currents.com.

### CONTROL STRATEGIES

#### OCCUPANCY/VACANCY CONTROL

- Lights turn on automatically when an occupant enters the zone.
- Lights adjust brightness based on daylight availability while the room is occupied. There is one perimeter daylighting zone.
- Occupants may use wall dimmers to set desired light levels.

#### DAYLIGHT HARVESTING

- Lights turn off when a zone is vacant for at most 30 minutes.
- Lights connected to emergency circuits default to 100% output during a power loss.

#### TOP TRIMMING *

- Top trimming maximum light output is not required by code but is a recommended practice for energy savings.

#### EMERGENCY LIGHTING

- Order Lumination fixtures with “TZ” catalog logic for sensors preinstalled in fixtures.

### SOLUTION COMPONENTS

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** Order Lumination fixtures with “TZ” catalog logic for sensors preinstalled in fixtures.
**Open Office Daintree EZ Connect**

- 16-WIT100-Integrated fixture control with daylight and occupancy
- 1-ZBT-S1AWH-Wireless dimmer switch

- Each control zone must be no larger than 600 sq. ft.
- All control zones in the open office area must be turned off if no activity is detected in any zone for 30 minutes.
- Many Lumination® LED luminaires come preinstalled with WIT100 sensors and can be ordered with Daintree EZ Connect "TT" Controls Catalog logic. For a complete list of Daintree Integrated Fixtures, visit [gecurrent.com](http://gecurrent.com).

**CONTROL STRATEGIES**

**OCCUPANCY/VACANCY CONTROL**

- Lights turn on automatically when an occupant enters the zone.
- Lights adjust brightness based on daylight availability while the room is occupied. There is one perimeter daylighting zone.
- Occupants may use wall dimmers to set desired light levels.

**DAYLIGHT HARVESTING**

- Lights turn off when a zone is vacant for at most 30 minutes.
- Lights connected to emergency circuits default to 100% output during a power loss.

**TOP TRIMMING**

**MANUAL-ON**

**EMERGENCY LIGHTING**

**LIGHTING BEHAVIOR**

- Lights turn on automatically when an occupant enters the zone.
- Lights adjust brightness based on daylight availability while the room is occupied. There is one perimeter daylighting zone.
- Occupants may use wall dimmers to set desired light levels.

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** Order Lumination fixtures with "TT" catalog logic for sensors preinstalled in fixtures.

Note: Daintree EZ Connect devices can be custom programmed using the Daintree EZ Connect App and is available on the Apple® App Store.
**Private Office**

**Daintree Networked**

2–WA100-PM - Wireless lighting control adapter
1–WWD1 - Wireless wall dimmer
1–WOS2-CM-E - Wireless PIR occupancy sensor
1–WPS1 - Wireless photocell

- Each WA100-PM is capable of supporting 5mA sink or source on its 0–10V dimming circuit and can provide on/off via its line-voltage relay. Ensure zones are designed with respect to the lighting drivers used.
- Due to the size of the room, daylighting controls need to be installed individually. This can be done by field installing an adapter or ordering an integrated granular fixture.

**CONTROL STRATEGIES**

**OCCUPANCY/VACANCY CONTROL**

**MANUAL-ON**

**TOP TRIMMING**

**DAYLIGHT HARVESTING**

- Lights turn on automatically to 50% when an occupant enters the space or full brightness with manual-on.
- Lights adjust brightness based on daylight availability while the room is occupied. There is one perimeter daylighting zone.
- Occupants may use wall dimmers to set desired light levels.
- All lights automatically turn off within 30 minutes after all occupants exit.

**SOLUTION COMPONENTS**

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Note: A node is any Daintree wireless device that connects and communicates to the system.
Private Office Daintree Networked

2–WIZ100-Integrated fixture control with daylight and occupancy
1–WWD1-Wireless wall dimmer

• Many Lumination® LED luminaires come preinstalled with WIZ100 sensors and can be ordered with Daintree Networked “TZ” Controls Catalog logic. For a complete list of Daintree Integrated Fixtures, visit gecurrent.com.

CONTROL STRATEGIES

OCCUPANCY/VACANCY CONTROL

TOP TRIMMING

MANUAL-ON

DAILIGHT HARVESTING

LIGHTING BEHAVIOR

• Lights turn on automatically to 50% when an occupant enters the space or full brightness with manual-on.
• Lights adjust brightness based on daylight availability while the room is occupied. There is one perimeter daylighting zone.
• Occupants may use wall dimmers to set desired light levels.
• All lights automatically turn off within 30 minutes after all occupants exit.

SOLUTION COMPONENTS

<table>
<thead>
<tr>
<th>Picture</th>
<th>Symbol</th>
<th>Model Number</th>
<th>Description</th>
<th>Quantity</th>
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</table>

* Top trimming maximum light output is not required by code but is a recommended practice for energy savings.
** Order Lumination fixtures with “TZ” catalog logic for sensors preinstalled in fixtures.
Private Office

**LIGHTING BEHAVIOR**
- Lights turn on automatically to 50% when an occupant enters the space or full brightness with manual-on.
- Lights adjust brightness based on daylight availability while the room is occupied. There is one perimeter daylighting zone.
- Occupants may use wall dimmers to set desired light levels.
- All lights automatically turn off within 30 minutes after all occupants exit.

**CONTROL STRATEGIES**

- **OCCUPANCY/VACANCY CONTROL**
- **MANUAL-ON**
- **TOP TRIMMING**
- **DAYLIGHT HARVESTING**

**SOLUTION COMPONENTS**

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* Top trimming maximum light output is not required by code but is a recommended practice for energy savings.
** Order Lumination® LED luminaires come preinstalled with WIT100 sensors and can be ordered with Daintree EZ Connect “TT” Controls Catalog logic. For a complete list of Daintree Integrated Fixtures, visit [gecurrent.com](http://gecurrent.com).

Note: Daintree EZ Connect devices can be custom programmed using the Daintree EZ Connect App and is available on the Apple® App Store.
Warehouse Daintree One

12–WHS20: High bay fixture control with daylight and occupancy

- Under Albeo® High Bay Fixtures with “FB” catalog logic for sensors preinstalled in fixtures.

CONTROL STRATEGIES

OCCUPANCY/VACANCY CONTROL

LIGHTING BEHAVIOR

- Automatically reduce lighting >50% when unoccupied.
- Each aisle can be independently controlled.
- Lights adjust brightness based on daylight availability while the room is occupied.

DAYLIGHT HARVESTING

TOP TRIMMING*

SOLUTION COMPONENTS

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* Top trimming maximum light output is not required by code but is a recommended practice for energy savings.

** Order Albeo fixtures with “FB” catalog logic for sensors preinstalled in fixtures.

Note: Daintree WHS20 can be custom-programmed with the WHR1 remote.
Lighting Behavior

- Automatically reduce lighting >50% when unoccupied.
- Each aisle can be independently controlled.
- Lights adjust brightness based on daylight availability while the room is occupied.
- Lights must turn off after aisle is vacated after 30 minutes.

Top Trimming

* Top trimming maximum light output is not required by code but is a recommended practice for energy savings.

SOLUTION COMPONENTS

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* Order Albeo® High Bay Fixtures with “DF” catalog logic for sensors preinstalled in fixtures.

Note: Daintree WHS20 can be custom programmed with the Daintree EZ Connect App available on the Apple® App Store.
Warehouse Daintree One
12–WHS20: High bay fixture control with daylight and occupancy

- Under Albeo® High Bay Fixtures with “NA” catalog logic for sensors preinstalled in fixtures.

**SOLUTION COMPONENTS**

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* Top trimming maximum light output is not required by code but is a recommended practice for energy savings.

** Order Albeo fixtures with “NA” catalog logic for sensors preinstalled in fixtures.

**Note:** Daintree WHS20 can be custom programmed with Daintree Controls Software web application in Daintree Networked.