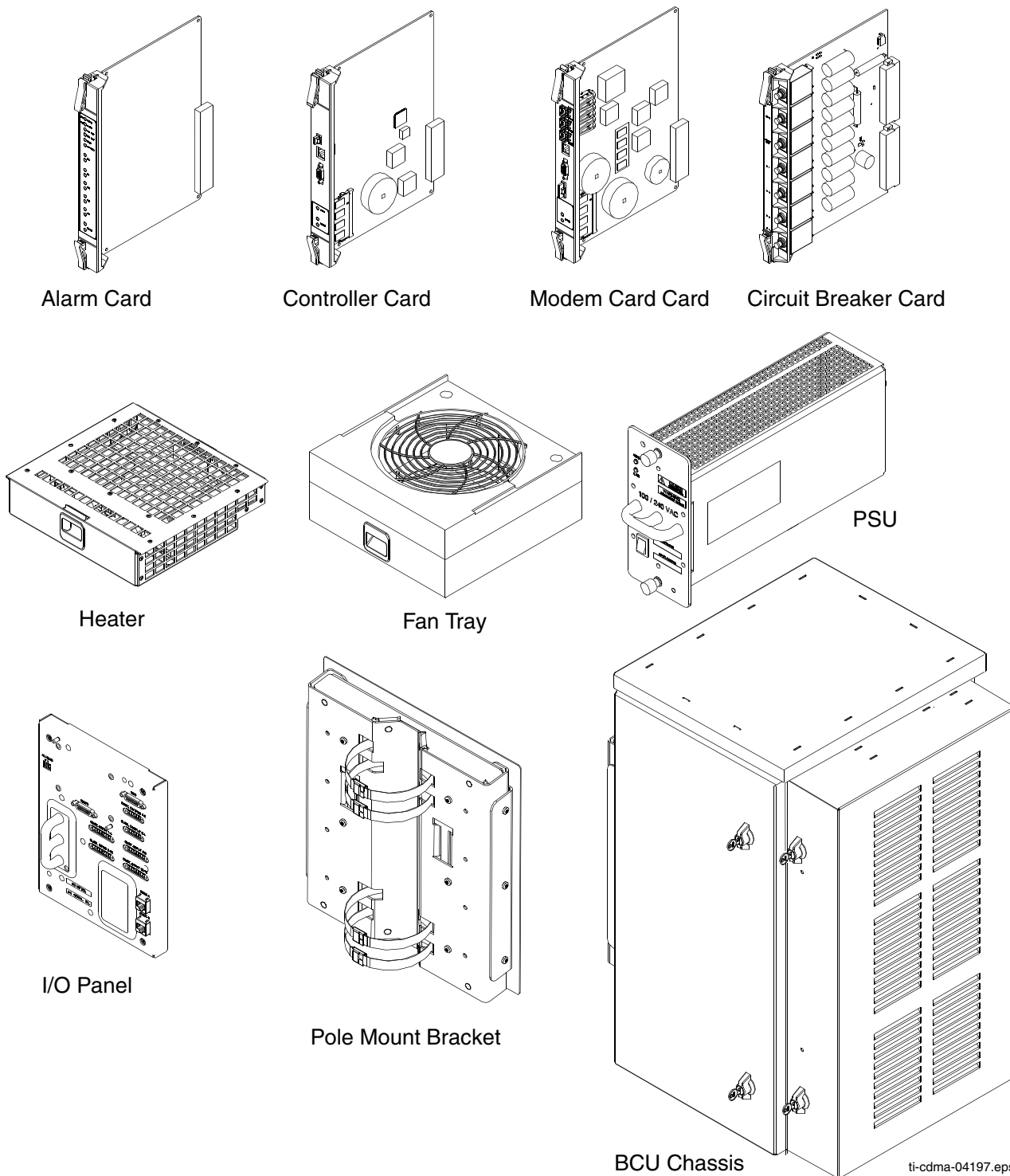


Figure 1-3 BCU Hardware

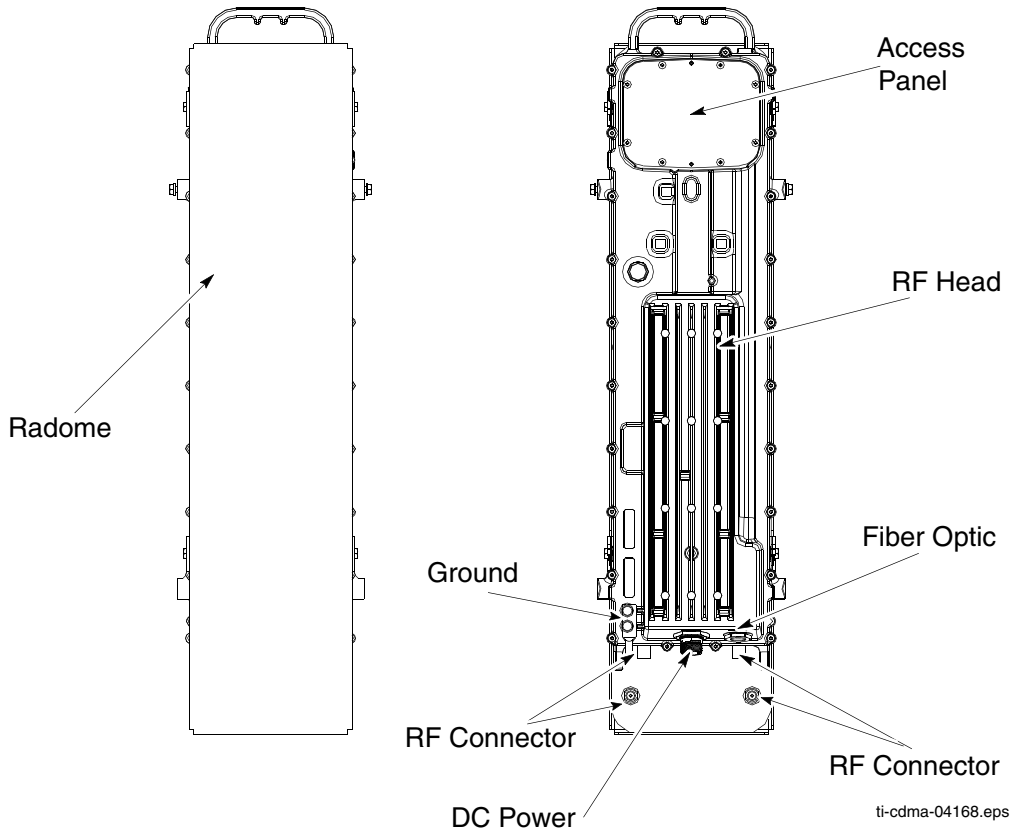


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RF Head Hardware Identification

The Diversity Access Point (DAP) RF Head Assembly consists of a two antenna element using a single radome and a (one Transmit/Receive RF Module (RF Head)).

Figure 1-4 DAP RF Head Hardware



Site Preparation

Site Preparation Overview

Overview

This chapter provides the procedures and information to verify that the site is ready for equipment installation. It also provides procedures to ensure the safety of the installation personnel, protect the equipment from damage, and verify the site layout parameters.



WARNING

Every effort should be made to provide a safe working environment for all installation and service personnel.

Installation

This Base Control Unit (BCU) may be installed indoors or outdoors. The RF Head is installed outdoors. The site preparation depends on the type of installation and the site characteristics.

Site Manager

The site manager is the person in charge of and responsible for the full site.

Verification and Procedures

Verifications typically have the installer check with the site manager that a condition has been previously checked or procedure previously performed and meets a stated specification.

Inspections typically have the installer personally checking that a condition or item meets stated specifications.

The verifications and procedures provided in this chapter are:

- Internal site inspections
- Preparing site for the arrival of equipment
- Site layout verification

Prepare Site for Equipment Arrival

Description

This information covers various topics not all of which are needed at every site. Based on the site characteristics execute the steps that apply to your site. Before installing the equipment, do the following to ensure the safety of installation personnel and to protect the equipment.

Equipment Arrival

Before the equipment arrives, indicate to the transport company an area at the site where the equipment can be unloaded and, if necessary, unpacked. The equipment should be carefully delivered to the site, along with all equipment dollies and padding required to safely move the equipment from the unloading area to the cell site. The following should also be provided, outdoor weather protection, temporary lighting and power for lighting and power tools.

Procedure to Prepare the Site for the Equipment

Procedure 2-1 Procedure to Prepare the Site for the BTS

1	Consult with site manager.
2	Locate the demarcation blocks for external utilities. Verify that they are shown on the Site Engineering documents, and determine the required cable routing back to the equipment frames.
3	<p>Verify the following:</p> <ul style="list-style-type: none"> ● AC power is available and meets the site documentation specifications ● Pole and/or wall mounting structures are adequate ● Outdoor cable runs are installed and meet local building codes ● Customer input termination tie points are available ● There is clear access to move the equipment to the desired mounting area ● There is sufficient space for installation and service access to the equipment ● Customer supplied shelters are installed

Shipping and Handling

Overview

The purpose of this chapter is to describe how the Base Control Unit (BCU) and RF Head are packaged for shipping and how to correctly unpack the units in preparation for installation.

How Equipment is Shipped

The BCU and RF Head will be shipped in separate containers or separate pallets. The containers, if used will either be wood or card board, with packing material to protect the units.

If pallets are used, the units will be wrapped in packing material and strapped to the pallet. Plastic wrapping will be used to encase the units and provide protection as well as securing the units to the pallets.

The BCU is shipped with all cards/modules and internal cabling installed.

The RF Head is shipped fully assembled.

How Equipment Arrives

Before the equipment arrives, indicate to the transport company an area at the site where the equipment can be unloaded and, if necessary, unpacked. The equipment should be carefully delivered to the site, along with all equipment dollies and padding required to safely move the equipment from the unloading area to the cell site. The site should also have the following items available: outdoor weather protection and power for temporary lighting and power tools.

Unpacking

The unpacking process requires that the following procedures be completed in the order shown:

1. Unpack the shipping container
2. Inventory the shipping container
3. Inspect equipment for damage

Recommended Tools

The tools in [Table 2-1](#) are recommended to assist in opening the containers housing the equipment. Tin snips Knife, box cutter, or scissors

Table 2-1 Recommended Unpacking Tools

Qty	Description
1	Tin snips
1	Knife, box cutter, scissors

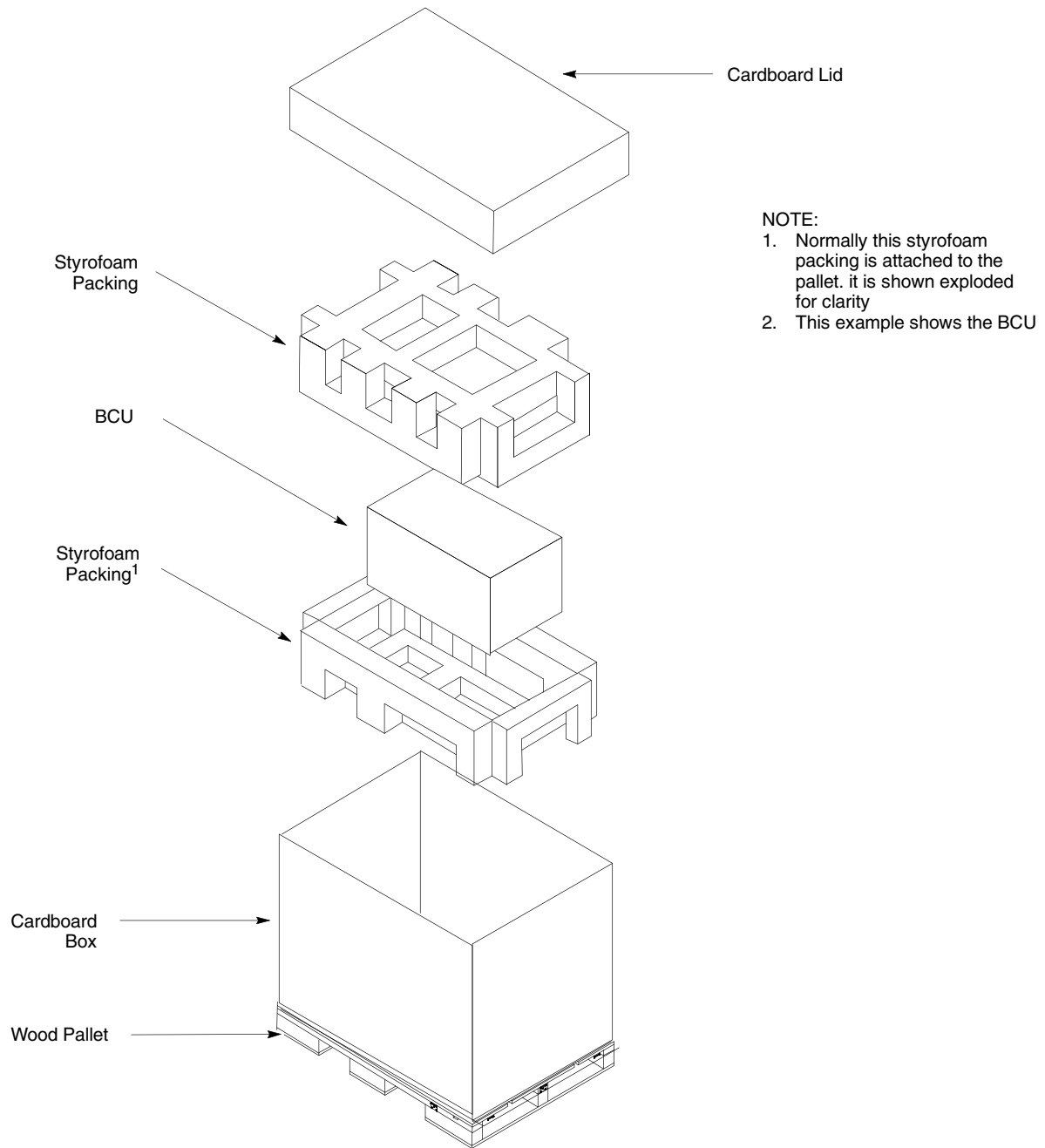
Unpacking Diagrams

The following diagrams show how to unpack the equipment.

Figure 2-1 Shrink Wrapped Shipment

Authors Note: Figure 2-1 will be new and Figure 2-2 will be changed.

Figure 2-2 Cardboard Shipping Container




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Unpacking a Cardboard Container or Shrink Wrapped Shipment

Follow the procedure in [Procedure 2-2](#) to unpack equipment from a container or shrink wrap.

Procedure 2-2 Unpacking Equipment from a Cardboard Container or Shrink Wrap



1	<p>Inspect for damage.</p> <div style="display: flex; align-items: center; margin-top: 10px;">  <div style="margin-left: 10px;"> <p style="background-color: #00b050; color: white; padding: 5px; display: inline-block;">NOTE</p> <p style="margin-top: 5px;">Components may or may not be delivered on one pallet. Procedure assumes components are delivered in separate containers on one pallet.</p> </div> </div>
2	If container is made of cardboard, proceed to step 3 .
3	Open container using tin snips to cut each outer steel band.
4	Cut bands securing pole mounting bracket container to top of BCU container. Remove pole mounting bracket container, and place to one side.
5	Cut bands securing RF Head container and RF Head mounting bracket container to pallet.
6	Cut bands securing RGPS container to pallet.
7	Proceed to Procedure 2-3 .
8	Using a knife or equivalent, carefully cut shrink wrap.
9	Carefully separate individual shipping containers. Check for damage to containers.
10	Proceed to Procedure 2-3 .

Procedure 2-3 Procedure to Remove Outdoor Equipment from Container

1	<p>Lift cardboard container off of the BCU. Find and remove equipment door key. Open the shipping container holding the BCU mounting bracket. Open the shipping container holding the RF Head. Open shipping container holding RF Head mounting bracket assembly. Open shipping container holding the GPS equipment.</p>
2	Remove packing material from all containers.
3	Upon opening containers, if components are enclosed in plastic, use a knife or equivalent to carefully cut plastic away.

Continued

Procedure 2-3 Procedure to Remove Outdoor Equipment from Container (Continued)

4	 <div style="background-color: #00b050; color: white; padding: 5px; display: inline-block; margin-left: 10px;">NOTE</div> <p>The BCU weighs a maximum of 68 kg (150 lbs). Recommend that a minimum of two people be present to move the BCU.</p> <p>Locate BCU door key. Remove BCU.</p>
5	Use the key to open the door. Verify that cards and modules are installed.
6	If BCU is to be pole mounted, check that BCU has part of the mounting bracket already attached. Remove BCU pole mounting bracket assembly from its container.
7	 <div style="background-color: #00b050; color: white; padding: 5px; display: inline-block; margin-left: 10px;">NOTE</div> <p>The RF Head for the Diversity Access Point (DAP) weighs 15.9 kg (35.0 lbs).</p> <p>Remove the DAP RF Head from its container.</p>
8	Remove DAP RF Head mounting bracket assembly from its container.
9	Remove GPS equipment from its container.
10	Take inventory of equipment received. Report the extent of any equipment damage to the transport company and to appropriate management personnel.

Cable Descriptions
