

AP 6321 Quick Install Guide

QUICK GUIDE

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1 Getting Started

1.1 Package Contents



AP 6321



Ethernet Cable



Fastening Hardware



Appliance Feet



Quick Guide



Screw Hole Template

Note: Ericsson also offers the following options, which are ordered and shipped separately:

- AC Power Adapter
- Ceiling Tile Hanger Kit
- Passive PoE Injector



Contact your Ericsson representative for more information.

1.2 Unit Description

1.2.1 Power Connector

The unit does not have a power switch. It is powered on when connected to a power source. The power adapter, ordered and shipped separately, automatically adjusts to any voltage between 100~240 volts at 50 Hz or 60 Hz. The unit draws up to 0.43 A at 48 V DC (20.9 W).



Warning!

The AC Power Adapter relies on the rated fuse or circuit breaker of the wall outlet (15 A in North America, 10 A in Europe).



Caution!

Use ONLY the Ericsson power adapter for the AP 6321. Use of any other power adapter can damage the unit and voids the Ericsson product warranty.

1.2.2 Internet Port

Table 1 shows the power consumption for the *Internet* port.

Table 1 Power Consumption Table

State	<i>Internet Port Only</i>	<i>Internet Port and One LAN Port</i>	<i>Internet Port and Four LAN Ports</i>
Idle	5.6 W	6.3 W	8.4 W
Medium Traffic	12 W	12.7 W	14.9 W
High Traffic	16 W	16.7 W	18.9 W
Maximum Traffic	18 W	18.7 W	20.9 W

The PoE switch or power injector must meet local and national regulatory requirements.

**802.3at Power Source Equipment (PSE) Specification:**

- 50.0 to 57 V DC, with 30 W output power from the PSE

802.3at Powered Device (PD) Specification:

- 42.5 to 57 V DC at the PD, with 25.5 W maximum input power to the PD

802.3at Cable Specification:

- 100 m maximum length
- Maximum cable pair resistance of 12.5 Ohms, satisfied by using CAT5 or CAT5e as specified by ANSI/TIA/EIA-568 or Class D as specified by ISO/IEC 11801:1995
- 600 mA maximum current per pair

1.2.3**Reset Button**

This button is used to restore the factory default configuration using a paperclip or pen tip. Hold down the button for 15 seconds or more, until all of the indicators turn off, to remove any configuration changes and restore the unit to the factory default configuration.



2 Installing the AP 6321

2.1 Step 1—Select Location

Choose a proper place for the unit. In general, the best location is at the center of the intended wireless coverage area, within line of sight of all wireless devices. For optimum performance, consider these guidelines:

- Mount the unit as high as possible above any obstructions in the coverage area.
- Avoid mounting next to or near building support columns or other obstructions that can cause reduced signal or null zones in parts of the coverage area.
- Mount away from any signal absorbing or reflecting structures (such as those containing metal).

The unit can be mounted on any horizontal surface, on a wall or from a hanging ceiling.

The unit is UL2043 Certified for Plenum mounting. Installers must use Plenum rated Ethernet cable for installations in the environmental air space of a building, such as above suspended ceilings. Installers must follow local and national codes for above ceiling installations.



Warning!

Do not install the unit in any areas where blasting (blasting caps, radio controlled equipment) or explosive gases can be present.



Warning!

The unit, its AC power adapter, and its cables are not designed for outdoor use. They must be located indoors.



2.2 Step 2—Mount on a Flat Surface

Mount the unit only on a flat surface that is at least 1/2-inch (12.7-mm) plywood or the equivalent. To mount the unit on a ceiling or a wall, use one of the following options:

- To mount the unit on a wall or on a ceiling that does not have T-rails, use the pan head Phillips screws provided with the unit.
- To mount the unit on a ceiling that has T-rails, use either a T-rail mounting bracket or the pan head Phillips screws provided with the unit. T-rail mounting brackets are included in the Ceiling Tile Hanger Kit (BNCKG0158 or INE 105 3079), which can be ordered separately. The Ceiling Tile Hanger Kit includes five T-rail mounting brackets and five sets of four appliance feet.

To mount the unit using the mounting screws provided with the unit, do the following:

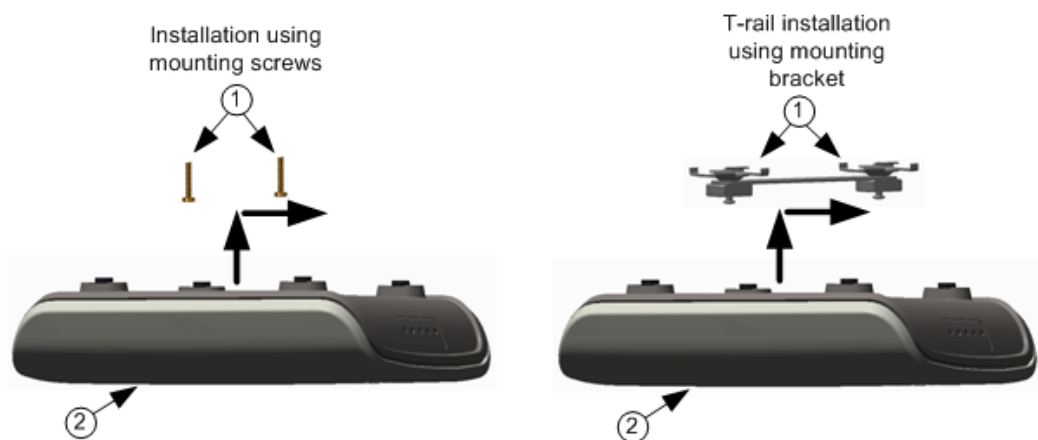
1. Attach the mounting screws to a ceiling or wall.
 - Use the included Screw Hole Template as a guide.
 - For concrete or brick walls, drill holes and use the included nylon wall plugs.
 - For T-rail installations, drill 3/32-inch (2.4-mm) pilot holes.
 - Leave a 5/16-inch (8-mm) gap so the unit can slide over the screw heads.
2. Attach the appliance feet provided with the unit to the unit.
3. Attach the unit to the mounting screws by doing the following:
 - a Line up the two mounting slots on the bottom of the unit with the two mounting screws.
 - b Slide the unit across into position so that the mounting screws support the unit.
 - c Adjust the screw depth as required so that there is a snug fit between the unit and the mounting screws.

To mount the unit using a T-rail mounting bracket, do the following:

1. Clip the T-rail mounting bracket to a T-rail.
2. Attach the correct appliance feet to the unit:
 - For a suspended ceiling with recessed T-rails (this is a ceiling in which the tiles hang below the T-rails), attach the appliance feet provided with the unit.



- For a suspended ceiling in which the tiles are flush with the T-rails, attach the appliance feet provided in the Ceiling Tile Hanger Kit.
3. Attach the unit to the mounting points on the mounting bracket by doing the following:
 - a. Line up the two mounting slots on the bottom of the unit with the two mounting points on the mounting bracket.
 - b. Slide the unit across into position so that the mounting points support the unit.



2.3 Step 3—Connect and Power On

The AP 6321 can get its operating power directly from either of the following sources:

- An AC wall outlet
- The *Internet* port when connected to a device that provides IEEE 802.3at compliant Power over Ethernet (PoE)

If the AP 6321 is connected to both a PoE source device and an AC power source, AC is disabled.

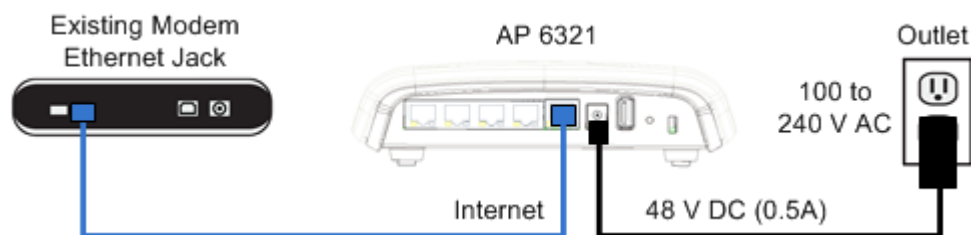
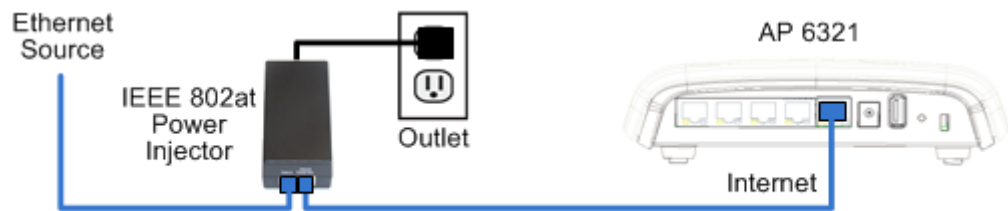


Figure 1 Wall Outlet Power



Caution!

Use ONLY the Ericsson power adapter for the AP 6321. Use of any other power adapter can damage the unit and voids the Ericsson product warranty.



Note: Inserting the PoE cable into a LAN port does not harm the unit.

Figure 2 Power over Ethernet



Warning!

If PoE is used, the AP 6321 must be connected to a power source that complies with IEEE 802.3at, or to an IEC/EN 60950-1 compliant power limited source.

2.4 Step 4—Check Indicators

All indicators are illuminated for about one to two seconds when the unit is powered on. After powering on, wait 2 minutes and check that the indicators on the unit match the indicators in Table 2.

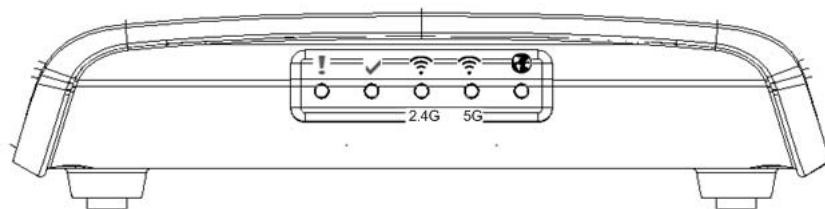


Table 2 Indicator Behavior

Indicator	Behavior
! (FAULT)	Off



Indicator	Behavior
✓ (OPERATIONAL)	Green
2.4G	Green
5G	Green
🌐 (INTERNET)	Green

If the indicator behavior does not match Table 2, refer to the *AP 6321 Technical Description, 1/1550-LZA 101 822* for detailed indicator descriptions.

2.5 Step 5—Configure Unit

In most cases, the unit configures itself automatically after powering on. To configure the unit manually through its local web interface or Command Line Interface (CLI), refer to the *Access Point User Guide, 1/1553-LZA 101 806*.

AP 6321 Conformity and Regulatory Statements

STATEMENT OF COMPLIANCE

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1 About this Document

This section describes the scope and target groups for this document.

1.1 Scope

This document provides the regulatory information, disclaimers, and compliance statements for the product.

1.2 Target Group

The information in this document is intended for all personnel who want to learn more about the product.

1.3 Comments About the Documentation

Ericsson encourages you to provide feedback, comments or suggestions so that we can improve the documentation to better meet your needs. With your comments provide the following:

- Document title
- Document number and revision
- Page number or section number

Please send your comments to your local Ericsson Support.



2 Regulatory Information and Disclaimers

Installation and use of this device must be in strict accordance with the instructions included in the user documentation provided with the product. Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

The manufacturer is not responsible for any interference to radio or television equipment caused by unauthorized modification of this device, or attachment of any antennas or equipment other than those specified by the manufacturer. The manufacturer or its authorized resellers or distributors will assume no liability for any damage arising from failure to comply with these guidelines, or failure to comply with local, regional or national safety, electrical or building codes, or government regulations.

This product is manufactured in China with originating and non-originating product.

Ce produit est fabriqué en Chine avec des matières originaires et non originaires du produit.

This device contains the following: FCC ID: RAR40065006; IC: 4674A-40065006 (AP 6321).



3 Manufacturer's US Federal Communication Commission Conformity Statement

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

3.1 FCC Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

For product available in the USA/Canada market, at 2.4 GHz, only channel 1-11 can be selected. Selection of other channels is not possible.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures.



Operation of this device in the 5.15-5.25 GHz frequency range is restricted to indoor environments only.

Note: Country code selection is for non-US models only and is not available to US models. Per FCC regulations, all Wi-Fi products marketed in the US are fixed to US operating channels only.

3.2 FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 9.8 inches (25 cm) between the radiator and your body.



4 Manufacturer's Industry Canada Conformity Statement

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

For product available in the USA/Canada market, at 2.4 GHz, only channel 1-11 can be selected. Selection of other channels is not possible.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with IC multi-transmitter product procedures.

Caution:

The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems.

IMPORTANT NOTE:

Radiation Exposure Statement:

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 25 cm between the radiator and your body.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Pour les produits disponibles aux États-Unis / Canada du marché, seul le canal 1 à 11 peuvent être exploités. Sélection d'autres canaux n'est pas possible.

Cet appareil et son antenne (s) ne doit pas être co-localisés ou fonctionnement en association avec une autre antenne ou transmetteur.

Avertissement:

Les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.



NOTE IMPORTANTE:

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 25 cm de distance entre la source de rayonnement et votre corps.



5 Manufacturer's European Community Conformity Statement

Table 1 European Community Conformity Statement

Language	Statement
English	This equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Deutsch	Dieses Gerät entspricht den grundlegenden Anforderungen und den weiteren entsprechenden Vorgaben der Richtlinie 1999/5/EU.
Dansk	Dette udstyr er i overensstemmelse med de væsentlige krav og andre relevante bestemmelser i Direktiv 1999/5/EF.
Español	Este equipo cumple con los requisitos esenciales así como con otras disposiciones de la Directiva 1999/5/EC.
Français	Cet appareil est conforme aux exigences essentielles et aux autres dispositions pertinentes de la Directive 1999/5/EC.
Íslenska	Þessi búnaður samrýmist lögboðnum kröfum og öðrum ákvæðum tilskipunar 1999/5/ESB.
Italiano	Questo apparato conforme ai requisiti essenziali ed agli altri principi sanciti dalla Direttiva 1999/5/EC.
Nederlands	Deze apparatuur voldoet aan de belangrijkste eisen en andere voorzieningen van richtlijn 1999/5/EC.
Norsk	Dette utstyret er i samsvar med de grunnleggende krav og andre relevante bestemmelser i EU-direktiv 1999/5/EC.
Português	Este equipamento satisfaz os requisitos essenciais e outras provisões da Directiva 1999/5/EC.
Suomalainen	Tämä laite täyttää direktiivin 1999/5/EY oleelliset vaatimukset ja on siinä asetettujen muidenkin ehtojen mukainen.
Svenska	Denna utrustning är i överensstämmelse med de väsentliga kraven och andra relevanta bestämmelser i Direktiv 1999/5/EC.

The Declaration of Conformity related to this product can be found by contacting Ericsson.

The AP 6321 complies with the following R&TTE Radio standards:

- *EN 300 328 v1.8.1 (2012-06) Electromagnetic compatibility and Radio Spectrum Matters (ERM); Wideband transmission systems; Data*

transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive.

- *EN 301 893 v1.7.1 (2012-06) Broadband Radio Access Networks (BRAN); 5 GHz high performance RLAN; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive.*

The AP 6321 complies with the following R&TTE EMC standards:

- *EN 301 489-1 v1.9.2 (2011-09) Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements.*
- *EN 301 489-17 v2.2.1 (2012-09) ElectroMagnetic Compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) Standard for Radio Equipment; Part 17: Specific Conditions for Broadband Data Transmission Systems.*

The AP 6321 complies with the following R&TTE Safety standards:

- *EN 50385:2002 Product standard to demonstrate the compliance of radio base stations and fixed terminal stations for wireless telecommunication systems with the basic restrictions or the reference levels related to human exposure to radio frequency electromagnetic fields (110 MHz - 40 GHz) - General public.*
- *EN 62311:2008 Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz).*
- *EN 60950-1:2006 (+A11:2009+A1:2010+A12:2011) Information technology equipment - Safety - Part 1: General requirements.*

The following CE mark is affixed to the AP 6321:



Note: This equipment is intended to be used in all EU and EFTA countries. Outdoor use may be restricted to certain frequencies and/or may require a license for operation – for example in France the frequencies 2454-2483.5 MHz are restricted to 10 mW effective isotropic radiated power (EIRP) in outdoor environments, so channels 8-13 require reduced power. For more details, contact Ericsson.



6 Declaration of Conformity for RF Exposure

This Wireless LAN radio device has been evaluated under Health Canada Safety Code 6 and EN 62311:2008, and found to be compliant to the requirements set forth in CFR 47 Sections 2.1091, 2.1093, and 15.247 (b) (4) addressing RF exposure from radio frequency devices. This Wireless LAN radio device also conforms to EU Health and Safety Directive 2004/40/EC as per EN 50385.

This device complies with FCC RF radiation exposure limits for an uncontrolled environment. The radiated output power of this Wireless LAN device is below the FCC radio frequency exposure limits. However, this device should still be installed and used in such a manner that the potential for human contact during normal operation is minimized.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.



7 Product Disposal

Ericsson adheres to directive 2002/96/EC of the European Parliament and the council of 27 January 2003 on Waste Electrical and Electronic Equipment (WEEE).

To dispose of equipment, including batteries, contact Ericsson customer service to get a Return Material Authorization (RMA) number and shipping instructions.

7.1 Mise au rebut du produit

Ericsson se conforme à la directive 2002/96/EC du Parlement européen et du Conseil de l'Europe du 27 janvier 2003 relative à la destruction des déchets d'équipements électriques et électroniques (DEEE).

Si vous souhaitez vous débarrasser de l'équipement, y compris des piles, veuillez communiquer avec le service à la clientèle de Ericsson, afin d'obtenir un numéro d'autorisation de retour du matériel et des instructions sur les modalités d'expédition.

7.2 Produktentsorgung

Ericsson erfüllt die Anforderungen der Richtlinie 2002/96/EG des Europäischen Parlaments und des Rates vom 27. Januar über Elektro- und Elektronik-Altgeräte (Waste Electrical and Electronic Equipment = WEEE).

Für die Entsorgung von Geräten, einschließlich Batterien, wenden Sie sich bitte an den Kundendienst von Ericsson, um eine RMA-Nummer (Rücksendenummer) und die Versandanweisungen zu erhalten.

7.3 Verwijdering van het product

Ericsson volgt Richtlijn 2002/96/EG van het Europese Parlement en de Raad van 27 januari 2003 betreffende afgedankte elektrische en elektronische apparatuur (AEEA).

Voor het verwijderen van apparatuur, met inbegrip van batterijen, neemt u contact op met Ericsson klantenservice voor een retournummer (RMA) en verzendinstructies.



7.4 Tuotteen hävittäminen

Ericsson noudattaa sähkö- ja elektroniikkalaiteromusta 27 päivänä tammikuuta 2003 annettua Euroopan parlamentin ja neuvoston direktiiviä 2002/96/EY.

Palauttaaksesi välineet, mukaan luettuina akut, ota yhteys Ericsson –asiakaspalveluun, niin saat RMA (Return Material Authorization) –numeron ja lähetysohjeet.

7.5 Smaltimento del prodotto

Ericsson aderisce alla direttiva 2002/96/CE del parlamento Europeo e del Consiglio d'Europa del 27 gennaio 2003, sullo smaltimento degli apparecchi elettrici ed elettronici (WEEE).

Per lo smaltimento di tali apparecchi, comprese le batterie, contattare l'assistenza clienti di Ericsson per ottenere un numero di autorizzazione alla restituzione del materiale da smaltire (Return Material Authorization - RMA) e le istruzioni per la spedizione.

7.6 Produktbortskaffelse

Ericsson overholder direktivet 2002/96/EC fra Europa-Parlamentet og -Rådet dateret den 27. januar 2003 om Waste Electrical and Electronic Equipment (WEEE) (Affald af elektrisk og elektronisk udstyr).

For at bortskaffe udstyr, samt batterier, kontakt kundeservicen hos Ericsson for at få et Return Material Authorization (RMA)-nummer (returneringstilladelsesnummer) og forsendelsesinstruktioner.

7.7 Eliminação do produto

A Ericsson cumpre a Directiva 2002/96/CE do Parlamento Europeu e do Conselho, de 27 de Janeiro de 2003, relativa aos Resíduos de Equipamentos Eléctricos e Electrónicos (REEE).

Para proceder à eliminação do equipamento, incluindo as baterias, é favor contactar a assistência ao cliente da Ericsson para obter um número de Autorização de Devolução do Material (RMA – Return Material Authorization) e as instruções relativas ao envio.

7.8 Eliminación del producto

Ericsson cumple con la directiva 2002/96/EC del Parlamento Europeo y del Consejo de 27 de enero de 2003 sobre los residuos de aparatos eléctricos y electrónicos (RAEE).



Para la eliminación de equipo, incluyendo las pilas, contacte con el servicio de atención al cliente de Ericsson y obtenga el número de una Autorización de Devolución de Material (RMA) y las instrucciones para la expedición.