

# CUSTOMER

# COMMITMENT

THALES COMMUNICATIONS, INC.

CUSTOMER NEWSLETTER

Issue 1/Volume 3

Spring 2008

Clarksburg, Maryland

## AN/VRC-111 Vehicle Adapter Amplifier – 50 Watt Version

In a combat zone, the situation can change abruptly. Team radio systems have been designed so that the same voice-and-data radios can be used as handhelds as well as in various vehicular mounts. This adaptability is of limited value unless transitions from mounted to dismounted operation can be executed quickly. The battle-proven AN/PRC-148 Multiband Inter/Intra Team Radio (all MBITR and JEM configurations) can be removed easily and quickly from the Thales Vehicle Adapter [VA] in less than two seconds.



The Thales AN/VRC-111 Vehicle Adapter Amplifier [VAA] comprises two VAs mounted on an interface tray and is a COTS/NDI electrical and mechanical fixture combining the functionality of the AN/PRC-148 and VA into a system that offers an alternative to existing SINCGARS vehicular installations. The interface tray mounts directly onto a standard SINCGARS mounting base. The VAA provides a common solution for vehicular and dismounted communications and enables seamless, cable-free radio dismount in less than two seconds, without losing communications. It is available in 20 Watt, contiguous 30 to 512 MHz coverage and a new 50 Watt configuration. The new VAA

configuration has an RF output of 50 Watts in the 30 to 88MHz SINCGARS band and 20 Watts from 88 to 512MHz. The two 50 W power amplifiers can be joined together, or mounted separately for optimum installation convenience. The power amplifiers are driven from separate Vehicle Adapter Exciter [VAE] units that maintain the interface to the handheld radios and the rest of the installation interfaces.

### AN/VRC-111 VAA - 50 Watt Version

- 50 Watt output from 30-88 MHz - SINCGARS transmit mode
- 20 Watt output from 88-512 MHz

Easily mounted in air, land, or sea vehicles, the VAA is rugged, constructed to withstand harsh weather conditions and ballistic shock. It provides power amplification for range extension while recharging the battery attached to AN/PRC-148 handheld radios. Each VA has a Removable Control Head (RCH) that enables full-function radio remote control from inside or outside the vehicle up to 50 feet away.

The AN/VRC-111 provides capability beyond basic SINCGARS that is JTRS certified, supports crypto modernization, and has a powerful Software Communications Architecture [SCA] compliant platform that is fully capable of hosting today's and tomorrow's critical waveforms.

## Dedicated Team of Application Specialists

Training classes for users of our radios are held at the headquarters of Thales Communications, Inc. in Clarksburg, MD. Users are provided an AN/PRC-148 to learn the keypad entry and display sequences to become proficient in the operational use of the radio. Users are introduced to the complete family of equipment and a tour of the manufacturing facilities is provided for users to see how and where the radios are made in Maryland. Our team of Application Specialists are available to provide operational support of the AN/PRC-148 family.



We post the dates for the in-house AN/PRC-148 operator training classes on our web site [www.thalescomminc.com/training.asp](http://www.thalescomminc.com/training.asp)

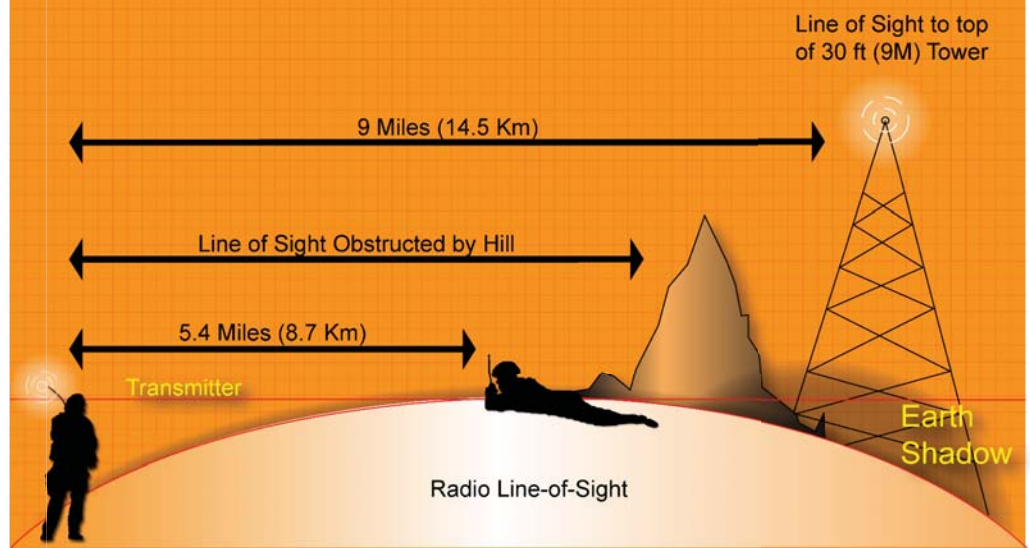
We can also provide AN/PRC-148 training at the user's location, to request a quotation please send an e-mail to: [aftermarket.support@thalescomminc.com](mailto:aftermarket.support@thalescomminc.com)

At Camp Arifjan in Kuwait, we have a dedicated team of repair specialists who provide support for the AN/PRC-148 family of equipment. ManTech's Regional Support Center [RSC] personnel assist with getting equipment from Afghanistan and Iraq to Kuwait and back again to the users. ManTech's points of contact are listed in the Tactical Communications Technical Resource area of our web site.

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# AN/PRC-148 and Thales 25 LINE OF SIGHT RANGE



The maximum transmit power of the AN/PRC-148 and the Thales 25 hand held radios is 5 Watts [5W], see above for the line of sight communication range/distance. The curvature of the earth means that the optical line of sight to the horizon for somebody 5ft 7inches [1.7m] tall is at 2.9 miles [4.7km]. Radio communication range is influenced by the frequency of operation; planning range for 30 to 90MHz SINCGARS frequencies is 3.1 miles [5km] to 6.2 miles [10km].

## NEW RELEASES

Thales Communications recognizes that end-users of our equipment require the latest technical information to ensure mission readiness. With the appropriate credentials, users are able to log-in to the Customer Center and quickly download the latest technical information and operational software at any time and at any location worldwide. If you have not already taken advantage of these useful resources, please log into our Customer Support Center at [www.thalescomminc.com](http://www.thalescomminc.com)

### NEW STYLE BLACK HOLSTER FOR THE AN/PRC-148 FAMILY

New MBITR and JEM radio deliveries are being made with an improved Holster SKU 1600494-1 in ACU digital camouflage; it is belt worn using the MOLLE [Modular Lightweight Load carrying Equipment] system.

The new improved version is now available in black, SKU 1600494-3, this version provides greater protection for the radio with an adjustable flap that can obscure the keypad and display, or just the display.

### REMOTE CONTROL UNIT WITH GPS (RCUG) SKU MA6795

This unit is an active replica of the front panel controls of the battle-proven AN/PRC-148 Multiband Inter/Intra Team Radio (all MBITR and JEM configurations). Volume and channel selections are made with rotary switches on the face of the unit. GPS position is sent to the radio via the rugged interconnect cable to the radio's side connector; the cable is designed to break away from the unit if the cable is snagged. Attaching the unit on the upper body, using the supplied holster, provides superior GPS reception than embedded radio solutions. The unit is powered from the radio battery with power saving methods to maintain maximum endurance from the battery. Although, the unit does not have a microphone, speaker or PTT switch, it can be used in conjunction with an audio accessory connected directly to the radio, such as a Speaker Microphone.



## CONTACT INFORMATION

### CUSTOMER SERVICE

1-800-914-0303

#### Technical Support

[technical.support@thalescomminc.com](mailto:technical.support@thalescomminc.com)

#### Product Support

[product.support@thalescomminc.com](mailto:product.support@thalescomminc.com)

#### Aftermarket Sales and Support

[aftermarket.support@thalescomminc.com](mailto:aftermarket.support@thalescomminc.com)

### BUSINESS DEVELOPMENT

Phone: 240-864-7000

Toll Free: 800-258-4420

#### Tactical Systems, US, AN/PRC-148

(includes all US activities overseas)

[tactical.domestic@thalescomminc.com](mailto:tactical.domestic@thalescomminc.com)

#### Tactical Systems, Coalition and Allied, AN/PRC-148

[tactical.international@thalescomminc.com](mailto:tactical.international@thalescomminc.com)

#### Homeland Security/Public Safety, Thales 25

[homeland.security@thalescomminc.com](mailto:homeland.security@thalescomminc.com)

#### Naval/Maritime Systems, HF Radio

[naval.maritime@thalescomminc.com](mailto:naval.maritime@thalescomminc.com)

#### Optronics, SOPHIE

[optronics@thalescomminc.com](mailto:optronics@thalescomminc.com)

#### Marketing, Public Relations, and Web Content

[sheila.gindes@thalescomminc.com](mailto:sheila.gindes@thalescomminc.com)



## AN/PRC-148 (MBITR/JEM) Battery

The AN/PRC-148 (MBITR/JEM) rechargeable battery is listed in FEDLOG as NSN 6140-01-487-1153. A FEDLOG query will result in information that certain vendors other than Thales are authorized providers of MBITR batteries.

Thales Communications Inc. (Thales) has identified performance and safety concerns regarding batteries supplied by companies other than Thales. Thales believes that its batteries are the only batteries that have been tested to the same stringent requirements as the Thales battery, e.g., HALO OPS to 35,000 feet, immersion in saltwater to 20 meters, shipboard certification, aircraft transport certification, HERO, HERP, and HERF. To our knowledge no manufacturer other than Thales has provided such data. Thales and others are currently attempting to acquire access to the test reports that were used to certify non-Thales batteries for use with the MBITR, JEM and VA/VAA. Thus, the only way to ensure you are getting a tested battery that will properly work with a MBITR/JEM radio is to purchase a Thales battery.

The Thales radios, Vehicle Adapters, and batteries are designed with software and circuitry which communicate with each other with regard to fuel gauge accuracy, overload, surge and fuse protection, as well as between our chargers and the batteries for the recharging parameters. Our batteries are "smart batteries" that require input and feedback between radio, charger and batteries for safe and efficient performance. Thales uses optimal cells to provide maximum battery life for our radios and which meet DoD battery life specifications. In addition to issues concerning the operability of the radio, there is no assurance that future software versions of the radio and chargers will work with non-Thales batteries.

Moreover, Thales is unable to verify how these batteries will react when being charged in the Thales chargers, the Thales Vehicle Adapter (VA), and other OEM ancillaries. Any damage to the MBITR/JEM as a result of using a non-Thales battery will void the radio's warranty.



Ensure your battery has the Thales logo and the Thales part number 1600515-X

Thales strongly recommends that any non-Thales battery NOT be used with any MBITR/JEM radios until it is verified that this battery will not harm either the radio/ personnel or adversely affect equipment or system performance. As additional information is available a notice will be posted on the Thales website and distributed to all users. The User communities are also requested to post this notice on their respective websites for maximum dissemination.

Please contact Thales Communications Inc. with any questions or concerns related to this user notice at:

#### Thales Communications Inc.

22605 Gateway Center Drive

Clarksburg, MD 20871

1-800-914-0303

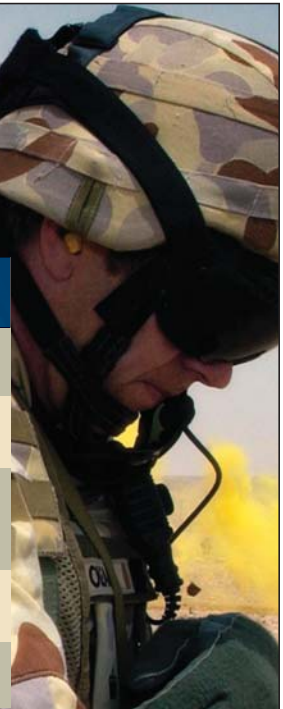
[customer.service@thalescomminc.com](mailto:customer.service@thalescomminc.com)

# Current Firmware Releases

## AN/PRC-148 Family and Thales 25

Current firmware versions for the AN/PRC-148 family, the Thales 25 and the associated PC Programmers. The radio firmware version is displayed as part of the boot-up and built-in test cycle. The PC Programmer version is displayed from the Help menu.

Radio	Receiver/Transmitter Brick' Part Number	Firmware Revision and Version	PC Programmer SKU	Revision Version
Type 1 AN/PRC-148[V]1[C] and [V]2[C] MBITR	4101104-501 Maritime 4101195-501 Urban	Revision AA Version 2.36	MA6941F	Revision H Version 1.08
Clear MBITR	4101422-504 Maritime 4101349-502 Urban	Revision E Version 1.16	MA6941L	Revision C Version 1.05 <sup>1</sup>
Type 1 AN/PRC-148[V]3[C] and [V]4[C] JTRS Enhanced MBITR [JEM]	4101658-505 Maritime 4101660-507 Urban	Version 02.01.00.0000	MA6941N	Revision A1 Version 01.00.00.0001
Vehicle Adapter MA6943	4101524-501	Revision F Version 1.09	MA6941F	Revision H Version 1.08
Thales 25	4101256-50x x can be 1, 3 or 5	8.3 for -503 and up 5.13 for -501	MA6941C	Version 5.0



<sup>1</sup> New version to resolve issues with missing Borland files on certain PCs

# HONORING the U.S. Coast Guard

The US Coast Guard (USCG) is the maritime law enforcement branch of the Armed Forces that is responsible for marine safety, coastal security, and drug interdiction, among several other homeland security missions. While the USCG can trace their heritage back to 1790 with the creation of the US Revenue Cutter Service (Department of Treasury), the modern Coast Guard was officially created by an Act of Congress in 1915.

Since 2004, the Naval Business Unit within Thales Communications has supported the USCG's legacy Cutter HF modernization program under a 10-year \$32 million IDIQ contract.



Delivering state-of-the-art HF system solutions for the 378', 270', and 210' Classes as well as various other Cutters, Thales has been able to support the USCG as they face new challenges in the Global War on Terror.

Thales Communications has paid tribute to the oldest continuous seagoing service with a commemorative poster depicting the cutters and aircraft of the USCG. Designed as a wall mounted reference poster, the "Cutters and Aircraft of the U.S. Coast Guard" depicts over 200 Cutters (USCG classifies any vessel in the USCG registry over 65 feet as a Cutter) and various aircraft with their associated Air Stations throughout the US. Future updates will account for decommissioned platforms as well as newly-commissioned Cutters under the Deepwater Program.

If you are interested in receiving a copy of the poster, please email a request to [naval.maritime@thalescomminc.com](mailto:naval.maritime@thalescomminc.com).

## TRIBUTES to our *Special Operations Forces*

Thales Communications is proud to sponsor many fund-raising activities that support U.S. troops around the world and their families. Last year, Thales Communications sponsored the USO of Metropolitan Washington's annual Stars & Stripes, Diamonds & Clubs Fund-raising Benefit. The USO is a non-profit organization that provides vital human services and programs free of charge to the military community to enhance their

quality of life. Thales Communications was also a sponsor of two recent events held by the Special Operations Warrior Foundation (SOWF): the "Tribute to Special Operations Forces" and the "Salute to the Air Commando Family." The SOWF provides college scholarship grants to surviving children of Army, Navy, Air Force and Marine Corps special operations personnel killed in combat or training missions. SOWF also provides immediate

financial assistance to Special Operations personnel severely wounded in the global war on terror.





# Grow and Further Your Skills

See what great **OPPORTUNITIES** await **YOU**  
at **THALES COMMUNICATIONS, INC.!**

COME GROW YOUR CAREER WITH US! Visit our website [www.thalescomminc.com](http://www.thalescomminc.com)  
Go to **Careers**. Click on **Careers Opportunities**  
and Select **View All Open Job Positions**



## Customer Feedback

Thales Communications Inc. has been working with Diagnostics Plus since 2003 to collect valuable feedback from customers, and use it to drive key improvement initiatives. Since 2003, Thales has used customer feedback to make improvements in product lead-times, turn around time (TAT) for repairs, customer service, customer training, operator manuals, and website information. Thales continues to collect feedback from its customers to provide continuous improvement in the delivery and support of our products and services. This feedback provides invaluable data for our on-going commitment to our customers.

Michelle Hostetler, Diagnostics Plus's V.P. of Operations has worked with the Thales team from the first customer survey in 2003, explains their approach to partnered customer research: "We think of our clients as our business partners. Our services are designed to provide our partners with the highest quality data, so they can make informed decisions based on facts. It is our belief that the data we provide helps make our clients successful in what they do, and their success is our success as well. Repeat business from clients is one of our key metrics, and we take pride in the fact that 90% of our business

comes from our existing clients."

Please contact Michelle or visit their website for additional information about the Diagnostics Plus team.



**Michelle L. Hostetler, Ph.D.**  
*Vice President of Research and Operations*

**Diagnostics Plus, Inc.**

1333 S. Allen St.

State College, PA 16801

Phone: 814-238-7936 ext 227

[mlh@diagnosticsplus.com](mailto:mlh@diagnosticsplus.com)

<http://www.diagnosticsplus.com>



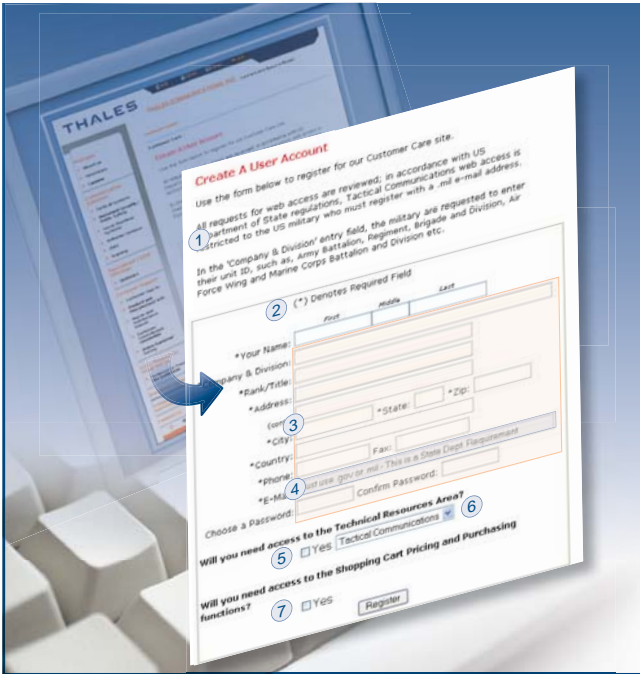
## ONLINE ASSISTANCE

### THALES COMMUNICATIONS WEBSITE

To access Technical Resources and the Shopping Cart on the Thales Communications, Inc. web site [www.thalescomminc.com](http://www.thalescomminc.com) select 'Customer Sign-in' under the 'Customer Support' banner. Scroll to the right hand corner of the screen and select 'Click here to register' to create a new Customer Center user account. Please follow the guidance below. Please note, approval is not automatic, all access requests are reviewed.

## CUSTOMER CENTER ONLINE REGISTRATION

### 1. CREATE A USER ACCOUNT



#### ① Military Examples:

- US Army, 3 BDE, 11D
- USAF, SFS, 110 Fighter Wing
- USMC, 5MARREG, 1MARDIV
- US Navy, EODMU11

② Ensure appropriate information is entered into all mandatory fields with the asterisk.

③ Ensure all contact information is accurate and complete.

④ Note: US State Department regulation requires 'official' government e-mail address for technical resource and shopping cart access.

#### ⑤ Identify The Appropriate Resource Area

- Tactical Communications, AN/PRC-148
- Public Safety/Homeland Security, Thales 25
- Naval/Maritime, TMR HF radios

⑥ Select if you require access to the *Technical Resources* to download operator manuals, etc.

⑦ Select if you require access to the online *Shopping Cart* to purchase radio accessories or to request a quote, etc.

### 2. CUSTOMER CARE ONLINE



① Drop down list of common tasks.

② Start a new RMA to return equipment for repair; once the RMA has been approved the RMA number is emailed; once the equipment has been received, repair status can be checked and its return shipment confirmed with tracking details.

③ Part number and serial number are written on the data plate of the equipment, by entering this information the warranty status, either in or out, can be displayed.

④ Edits can be made to the customer's name, email address, shipping address, phone number, etc.

⑤ Entering an order number, or an RMA number, with a ship-to zip code, provides shipment confirmation with tracking details.

⑥ Once Shopping Cart access has been given to acceptable government customers, credit card purchases can be made, or an e-quote can be created for subsequent credit card purchase.

⑦ Once access has been approved, documents and files can be downloaded, such as Operator's Manuals, radio firmware, Technical Notices, etc.

#### ⑧ Technical Support Is Provided In Three Areas

- Tactical Communications, AN/PRC-148 family
- Public Safety/Homeland Security, Thales 25
- Naval/Maritime, TMR HF radios

## TRADESHOWS

May 19-22, 2008	NDIA Small Arms	Dallas, TX
May 20-22, 2008	USSOCOM	Tampa, FL
June 16-20, 2008	Eurosatory	Paris, France
June 27- July 2, 2008	National Sheriff's Association	Indianapolis, IN
July 28-30, 2008	Night Vision Systems	Arlington, VA
August 4-6, 2008	APCO	Kansas City, MO
August 12-13, 2008	AFCEA (Fort Bragg)	Fayetteville, NC

**Thales is shifting the production** of our shipborne HF communications systems to our U.S. facility in Clarksburg, Maryland.

*Just Up the Road from Our Nation's Capital!*



**SAVE THE DATE!**  
**RIBBON-CUTTING CEREMONY**  
 SEPTEMBER 2008



*Join*  
 U.S. Congressional Representatives,  
 Key Naval/Defense Acquisition Officials,  
 and Industry Leaders  
*for this Commemorative Event!*

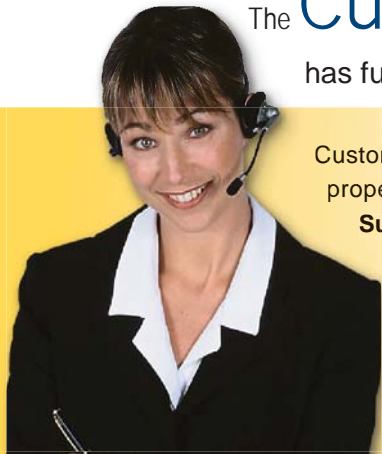
## Entertainment Trivia



Did you know that Thales' AN/PRC-148 Multiband Inter/Intra Team Radio and Thales 25 portable radio can be seen on TV shows and in feature films? Thales radios have been used in the TV series Jericho, E-Ring, 24, The Unit, BattleZone, Sleeper Cell, and Invasion. You can see our radios on the big screen in movies such as Déjà Vu, Shooter, Die Hard 4, Transformers, Rockaway the Movie, and The Kingdom. The producers strive for authenticity, and their "prop" houses come to us for our radio equipment.

The producers strive for authenticity, and their "prop" houses come to us for our radio equipment.

## The Customer Support Department has fully implemented a **24/7 Call Support Center**



Customers who call the Customer Service 1-800 number are now given three (3) options to properly route their requests: **Technical Assistance**, **Product Support** and **Aftermarket Support/Sales**. Incoming calls are routed to the appropriate Customer Service Specialist to ensure all inquiries are addressed as quickly as possible.

To contact Customer Service, please call us at:

**1-800-914-0303**

(For International Customers: +1 (240) 864-7643)

### Option 1.

**TECHNICAL** assistance and general inquiries  
[technical.support@thalescomminc.com](mailto:technical.support@thalescomminc.com)

### Option 2.

**REPAIRS** Return Material Authorizations (RMAs), and other product support assistance  
[product.support@thalescomminc.com](mailto:product.support@thalescomminc.com)

### Option 3.

**SALES** for spares and ancillary items, to request quotes and make purchases, website/shopping cart assistance  
[aftermarket.support@thalescomminc.com](mailto:aftermarket.support@thalescomminc.com)

## Q&As

**Question.** What waveforms and modes does the AN/PRC-148 JEM offer?

The AN/PRC-148 JEM has a Software Communications Architecture-compliant platform that hosts all of today's key waveforms and ensures compatibility with future JTRS waveforms as well. Implemented and planned waveforms and modes include: AM/FM, HAVEQUICK-I/II, MIL-STD-188-241-1/2 (SINGGARS), MIL-STD-188-181B (56 kbps), MIL-STD-188-181C (SATCOM IW), ANDVT, Project 25, Blue Force Tracking, Mobile Ad Hoc Networking (MANET), and Retransmission. (See our website <https://secure.thalescomminc.com/datasheets/jem.pdf> for more information.)

**Question.** What is CISCHR, and what is Thales providing under this contract vehicle?

In 2007, the Joint Program Executive Office (JPEO) Joint Tactical Radio System (JTRS) consolidated handheld radio purchases for the U.S. Department of Defense under a firm, fixed price, indefinite-delivery/indefinite-quantity (IDIQ) contract vehicle called "Consolidated, Interim, Single-Channel, Handheld Radio", or CISCHR. Thales is providing the AN/PRC-148 JEM, as well as ancillary equipment such as the dual radio AN/VRC-111 Vehicle Adapter Amplifier, under CISCHR (Contract Number N66001-7-D-0107). In October 2007, Thales won a delivery order for almost 40,000 AN/PRC-148 JEMs (and related accessories)—100% of the U.S. Army's first delivery order under CISCHR. (See our website [https://secure.thalescomminc.com/newsroom\\_details.asp?ID=317](https://secure.thalescomminc.com/newsroom_details.asp?ID=317) and [https://secure.thalescomminc.com/newsroom\\_details.asp?ID=311](https://secure.thalescomminc.com/newsroom_details.asp?ID=311) for more information.)

**Question.** Are accessories and replacement items available at locations other than Thales for expedited shipment?

Accessory and replacement items for Thales products can now be ordered direct and dispatched from our maintenance depot location at Camp Arifjan, Kuwait. These items include batteries, chargers, antennas, cables, holsters, PC Programming software, and other essential items required for ongoing operations. Previously, each order required export license approval through the State Department for all items shipping outside the United States. We have received State Department approval to pre-position an approved listing of accessories at our depot in

Kuwait. Orders must be placed directly with Thales via direct dial 1-800-914-0303, email [aftermarket.support@thalescomminc.com](mailto:aftermarket.support@thalescomminc.com), or through the shopping Cart on our website at [www.thalescomminc.com](http://www.thalescomminc.com). Once an order is placed, we will dispatch directly from our Kuwait depot and send notification confirming the order has shipped.

**Question.** Is there a newer version of software available for the Vehicle Adapter?

A new version 1.09 of software for the Vehicle Adapter (VA) has been released that improves power output under degraded VSWR conditions. This software is applicable to stand alone VA installations (part number 4101524-501), as well as, Vehicle Adapter Amplifier (VAA) configurations; also referenced as the AN/VRC-111.

Please visit our website and login to access Tactical Technical Resources or register for access at [www.thalescomminc.com](http://www.thalescomminc.com). Download the file 'VA\_Upgrade\_Kit.zip'. The file also contains Version 1.08 of the PC Programmer that has been enhanced to allow firmware updates to the VA. You will also need TCI cable P/N 3500613-501 connected between the PC and the VA multifunction connector. This cable can be purchased by contacting Thales at: 1-800-914-0303 [aftermarket.support@thalescomminc.com](mailto:aftermarket.support@thalescomminc.com)

**Question.** What is the PJC for the AN/PRC-148[V]4[C] JTRS Enhanced MBITR [JEM]?

The Private Joseki Component [PJC], classified Secret, is the communication security key that enables the JEM to be a Type 1 Controlled Cryptographic Item [CCI]. In the JEM the PJC is maintained for 60 days using a rechargeable Hold-Up Battery [HUB]. The HUB charge is maintained using the main radio battery. If no battery is connected to the radio, the HUB will discharge and the PJC will be lost. With a fully charged radio battery on the radio it can take up to 48 hours to fully charge the HUB; after four hours of charging the HUB will have sufficient charge to maintain the PJC to allow the battery to be swapped within 90 seconds.

It is OK to leave a radio, with its' battery, in a battery charger; a battery maintenance strategy is essential to ensure that a radio is ready for operational use.

A new PJC can be obtained through your COMSEC Custodian/EKMS Manager, the

short title = USKAD B9500 880091 for an electronic version, Edition 4 for an alternative media. With no PJC the JEM can only be used in the Plain Text [PT] mode of operation.

**Question.** How do I update the enabler database for the PC Programmer for the MBITR or the PC Tool Kit for the JEM?

1. MBITR, using the 'Tools' menu of the PC Programmer, 'Show Local Enabler Database Date', it should be reasonably current. If not, from the 'Tools', menu select 'Download Latest Enabler Database' to download the current enabler database from our secure ftp site.

If additional features have been purchased, or if necessary after firmware upgrade, from the 'Tools' menu 'Update Radio with Factory Enabled Options'.

If unable to connect the PC to the internet please send an e-mail to [technical.support@thalescomminc.com](mailto:technical.support@thalescomminc.com) for guidance on obtaining the current enabler database.

2. JEM, using the 'Tools' menu of the PC Tool Kit, 'Show Local Enabler Database Date', it should be reasonably current. If not, from the 'Tools', menu select 'Download Latest Enabler Database' to download the current enabler database from our secure ftp site.

If additional features have been purchased, or if necessary after firmware upgrade, from the 'Tools' menu 'Update Radio with Factory Enabled Options'.

**Question.** Where can I find National Stock Numbers [NSNs] for the AN/PRC-148 family of equipment?

We list several of the known NSNs for AN/PRC-148 accessories on our web site; please follow the link below for an example of the battery and battery charger listing <https://secure.thalescomminc.com/cart2/tcBatteries.asp>

**Question.** The MANET waveform is listed on the data sheet for the AN/PRC-148 JEM. Do you have any technical information on MANET?

Thales recently presented a technical paper on MANET (Mobile Ad Hoc Networking) at both domestic and international venues. The paper is posted on our website at <http://www.thalescomminc.com/library.asp>.



# ABOUT THALES COMMUNICATIONS

Thales Communications is a global leader in the development of battle-proven, software-defined, radio equipment and solutions. We provide critical communication capabilities in the Tactical, Naval/Maritime, and Homeland Security/Public Safety domains throughout the globe where size, weight, and power (SWAP) are key factors. Serving the US Department of Defense, US civilian agencies, and defense, allied, and coalition forces globally, Thales plays a direct role in the Global War on Terror.

Thales Communications' headquarters campus in Clarksburg, Maryland, and second location in Germantown, Maryland, house two state-of-the-art manufacturing plants as well as our 24/7 Customer Support Department. We also provide in-theater support to US and Coalition Forces in Kuwait, Iraq and Afghanistan.



# THALES

**Thales Communications, Inc.**

22605 Gateway Center Drive | Clarksburg, MD 20871

Website: [www.thalescomminc.com](http://www.thalescomminc.com)

**Customer Service 1.800.914.0303** | 240.864.7643

