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# An prc 148 mbitr technical manual

array(3) { [0]=> array(2) { [0]=> string(4) "Home" [1]=> string(15) " " } [1]=> array(2) { [0]=> string(42) "Integrated SATCOM, Multi-Band and HF Cases" [1]=> string(75) " " } [2]=> array(2) { [0]=> string(95) "Dual Base Station / Repeater / Retransmit Integrated Case For AN/PRC-148 MBITR & JEM Radio" [1]=> string(152) " " } } array(3) { [0]=> array(2) { [0]=> string(4) "Home" [1]=> string(15) " " } [1]=> array(2) { [0]=> string(42) "Integrated SATCOM, Multi-Band and HF Cases" [1]=> string(75) " " } [2]=> array(2) { [0]=> string(95) "Dual Base Station / Repeater / Retransmit Integrated Case For AN/PRC-148 MBITR & JEM Radio" [1]=> string(152) " " } } RADIOS SOLD SEPARATELY OR G.F.E. Part number: ABP-RPT-MBITR-3 Each unit includes dual 50 Watt Amplification, AC/DC Uninterruptible Power System, Cables (AC, DC) and one Operation / Maintenance manual. Features Triple purpose capability can be employed as a dual Base Station, Repeater or Re-transmitter. Dual 50 Watt Multi-Band amplification for extended Base Station/Repeater range. Worldwide input power (including aircraft power): 85-270 VAC / 47-440 Hz or 9-36 VDC. No user intervention after setup is required! Two Auxiliary 26VDC/1A outputs for High Efficiency Amplified Speakers™ or external equipment. Optional High Efficiency Amplified Speaker™ with special Automatic Level Control (ALC) for local/remote operation in base station setup. Operating temperature: -40°C to +70°C. Space age robust composite case with quick lock latches and internal gasket is water/air tight and sand/dust proof. Small size: 19.25"L x 15.3"W x 7.5"H. Weighs 30 lbs (without Transceivers). Storage space for AC and DC cables, coax cables, G.F.E. radios, handsets and antennas. Padlock lockable and commercial airline checkable. Commercial Off The Shelf (COTS). 3 Years warranty. Applications Versatile, Integrated, interoperable, self-contained Dual 50 Watt Multi-Band, SINCGARS Frequency Hopping Base Station/Repeater/Retransmit case for two AN/PRC-148 MBITR or JEM Handheld radios. Command Post, TOC, shelter, HMMWV, military & civilian vehicles, aircraft, shipboard, portable applications. Uninterruptible operation from almost any AC power source worldwide (including aircraft power) or 9-36VDC power source (HMMWV and other vehicles). Official websites use .mil A .mil website belongs to an official government organization in the United States. Secure .mil websites use HTTPS A lock ( A locked padlock ) or https:// means you've safely connected to the .gov website. Share sensitive information only on official, secure websites. Description With core expertise spanning over 40 years, we replaced the conventional heavy manpack radio with the AN/PRC-148 Multiband Inter/Intra Team Radio (MBITR). Rather than shrinking existing manpack designs, we started small and replaced over 60 pounds of equipment with approximately 2 pounds. Without losing functionality, we changed the way warfighters throughout the world do their job. The AN/PRC-148 MBITR provides unprecedented interoperability with existing military and commercial legacy radio systems and ensures future operation with the next generation of communication equipment. It is serving our warfighters both domestically and abroad with extensive use in the Global War on Terror. Contiguous 30-512 MHz Coverage. 100 Programmable Presets.Mbitr Technical Manual PdfMbitr Technical Manual Number CountersType III DES; NSA Endorsed Type 1 Encryption. 2 Meter and 20 Meter Immersible Variants. Waveforms/Modes: AM/FM.HAVEQUICK I/II. MIL-STD-188-241-1/-2 (SINCGARS).ANDVT (LPC-10, MELP Vocoders). Retransmission The AN/PRC-148 is the cornerstone of a for the warfighter. MBITR to JEM Upgrade Program. Quickly and easily upgrade your AN/PRC-148 MBITR to ah. Get a \$590 - \$1000 credit toward the purchase of a new JEM RT or JEM System Jan 7, 2018 - Free Software Testing Course - We are very excited to present this series of free. Last Updated: June 7, 2018. Here is the list of all tutorials in this free Live Project QA training series. Can u provide any project and all details about that based on manual and automation testing (tools should be like qtp, Oct 1, 2018 - Manual Testing is a type of software testing where Testers manually. Basically, this testing checks the quality of the system and delivers. Different aspects of QA manual testing is covered in this series of manual testing tutorials. This series of. Last Updated: June 7, 2018. A Complete List of 100+ Manual Testing Tutorials. Tutorial #1: Choosing Software Testing Career. Last Updated on August 19, 2018 by Rajkumar 15 Comments. In this free online Software Testing Tutorial / Manual Testing Tutorial, we cover all manual testing. Sir could u upload video on complete day to day activities of QA tester:AN/PRC-148 Multiband Inter/Intra Team Radio (MBITR) The AN/PRC-148 is a small and light full-featured Combat Net Radio (CNR) operating contiguously over the 30-512 MHz frequency range. The radio has imbedded US Type-1 COMSEC protection and is capable of both voice and data modes of operation. The AN/PRC-148 provides a hand held, highly flexible tactical radio useful over a very broad range of combat environments. The AN/PRC-148 is the cornerstone of a complete system solution for the warfighter which includes a Vehicle Adapter with a unique, cable-free, rapid radio dismount capability; dual radio AN/VRC-111 Vehicle Adapter Amplifier; Base Station for fixed applications; Tactical Repeater for range extension; and compact, rugged Man Portable System for dismounted operations requiring higher power output. USMC SGT Brandon Shofne, 2nd Combat Engineers Battalion, uses an MBITR AN/PRC-148 to report descriptions of ordnance found during a weapon cache sweep in Kharma, Iraq, 6 Dec 2005.AN/PRC-148 Multiband Inter/Intra Team Radio (MBITR) Marines of the 26th Marine Expeditionary Unit perform a radio check on their AN/PRC-148 radio during a tactical command post exercise at Camp Buehring, Kuwait, 30 April 2007. The AN/PRC-148 was developed by Thales Communications, Inc., Clarksburg, MD, originally designated as the Multiband Inter/Intra Team Radio (MBITR). First fielded in 2001, the AN/PRC-148 MBITR replaced complex man-pack radios weighing up to 60 pounds with a two pound handheld unit and simplified operations. The AN/PRC-148 program advanced to the next generation with the AN/PRC-148 Joint Tactical Radio System (JTRS) Enhanced MBITR, or JEM.As a software defined radio, JEM can be enhanced with legacy waveforms and software - ensuring interoperability with presently fielded radios - as well as with newly developed and future capabilities. PRC-148 radios are used in Afghanistan for intrasquad communications, such as those in patrols. Instead of hand signals, these Type One encrypted radios, which use the waveform, allow foot patrolling Soldiers and Marines to communicate back to their vehicle. As of 2009, more than 150,000 AN/PRC-148 radios are deployed or on order. The AN/PRC-148 contains embedded Type I COMSEC and is interoperable with SINCGARS and HAVEQUICK II (frequency-hopping system) in the single-channel and the ECCM frequency hopping modes.It can be configured for vehicular applications (with the AN/VRC-111 Vehicle Adapter Amplifier and Range Extender) and has spawned a range of accessories to expand its capabilities and ease of use. The AN/PRC-148 JEM was the first JTRS-compatible radio certified for compliance with SCA Software Communications Architecture (with waivers) and successfully completed comprehensive U.S. Government testing and qualification. AN/PRC-148 Product Family This chart indicates the model numbers for the major receiver-transmitter assemblies of the AN/PRC-148 product family. The National Stock Numbers (NSN) for some of these items is in another table lower down on the page. AN/PRC-148 AN/PRC-148 Physical Characteristics Length. 8.44 inches (21.44 cm) Width.2.63 inches (6.68 cm) Depth. 1.52 inches (3.86 cm) Volume. 33.74 cu.inches (552.8 cubic cm) Weight. 30.6 ounces (867.5 gm) Operating Temperature -31° to +60° C Storage Temperature -33° to +71° C Humidity 95% non-condensing Shock & Vibration EIA-202-1992 Altitude 30,000 Feet. with battery. All specifications from Thales Communications, Inc. AN/PRC-148 Accessories Batteries Rechargeable Lithium-Ion 3000 mAh 8 Hours Life at 5 Watts. Non-Rechargeable Battery Holder Commercial Lithium Cells 10 Hour Life at 5 Watts. Antenna Sets 30-90 MHz 30-512 MHz Base station, vehicular and SATCOM Other Accessories Vehicle Adapter Radio Holster Radio System Carrying Bag AC Powered Single Battery Charger AC/DC Powered 6-way Battery Charger Audio Accessories Adapters, Cables, and Connectors.Standard Duty Cycle (8:1:1). All specifications from Thales Communications, Inc. Find More Information on the Internet There are many fine websites that have additional information on this topic, too many to list here and too many to keep up with as they come and go. Use this Google web search form to get an up to date report of what's out there.For good results, try entering this: an/prc-148. Then click the Search button.Feature Guide for Intermediate Spelling Inventory. Directions: Check the features that are present in each student's spelling. In the bottom row, total features. Mar 27, 2007 - The Upper-Level Spelling Inventory (USI) can be used in upper elementary, middle, high school, and postsecondary classrooms. The 31 words are ordered by difficulty to sample features of the within word pattern to derivational relations spelling stages. Mar 27, 2007 - The Elementary Spelling Inventory (ESI) covers more stages than the PSI. It can be used as early as. Ventory Feature Guide. Student's Name. The Primary Spelling Inventory (PSI) is used in kindergarten through third grade. Words Their Way Upper-Level Spelling Inventory Feature Guide. Intermediate spelling feature guide. Once the spelling inventory is given, then you can use the Feature Guide to score and identify. Example Feature Guide (for Elementary Spelling Inventories). zoom AN/PRC-148, 6.8 AH LITHIUM-ION BATTERY This 6.8 amp hour AN/PRC-148 rechargeable battery provides reliable power for your radio or device. Tests exceed or meet all DOD rechargeable specs for durability. It is fully compatible with all AN/PRC-148 variants, chargers and the WAVE radio. Need a larger quantity or purchasing outside of the US? Request a Quote Adapter for charging one (1) or two (2) Rifleman radio batteries. SPC Adapter; AN/PRC-153 (Motorola HTI 250) battery. IISR This adapter is a (2) position charge adapter for the BB-2590/U (BT-707901A), BB-390/U (BT-70790), or BB-590/U (BT-70409) on SPC or SPC Lite chargers. SPC Adapter BB-390/U, BB-2590/U or BB-590/U Soldier Portable Charger (SPC) and SPC Lite adapter which holds 2 MBITR (AN/PRC-148) batteries. It is one of many interchangeable adapters within the Bren-Tronics family of adapters for these two versatile SPC and SPC lite chargers. AN/PRC-148 BATTERY Adapter for SPC AN/PRC-148 BATTERY Adapter for SPC This 5.8 amp hour AN/PRC-148 rechargeable battery provides reliable power for your radio or device. Tests exceed or meet all DOD rechargeable specs for durability. It is fully compatible with all AN/PRC-148 variants, chargers and the WAVE radio. AN/PRC-148 Rechargeable Lithium-Ion Battery This dedicated MBITR (AN/PRC-148) battery desktop charger has a built in status of charge indicators and can charge one (1) to two (2) BT-70716Bx or the MBITR batteries with or without the radio. This low cost AC charger is low profile. Dual Desktop AN/PRC-148 Charger This SPC adapter can hold and charge 2 BB-2590/U to 33.6V compared to the standard 33V (series mode) or 16.8V (parallel mode) thus achieving 7% more capacity. This adapter is fully interchangeable with all your PP-8498/U adapters. SPC Adapter BB-2590/U & BB-390 Batteries SPC Adapter 7% more charge BB-2590/U + BB-390 The BB-2590/U is built tougher and has significant improvements than its 2004 version. It is certified by the DOD for Military Use. Typically used in over 71 different devices such as Communications gear (SINCGARS, AN/PRC-117, etc.), Robots, and Jammers. BB-2590/U 7.5 Ah Rechargeable Lithium-Ion Battery BB-2590/U, 7.5 Ah Rechargeable Lithium-Ion Battery High capacity BB-2590 fielded worldwide. 9.9 Ah High Performance BB-2590/U Lithium-Ion Battery Charge up your USB powered devices using standard military batteries: BA-5590/U, BA-5390/U, BB-2590/U, BB-2590/U, and BB-390/U's. Charges your phone, PDAs, Cameras, Tablets, portable media players and more in same time it normally takes with any other USB option. Works with the BTP-70810-USB1, USB3 or SOCH (sold separately) to charge the AN/PRC-148 and AN/PRC-152 batteries.\*images are representative, actual product may vary Charge USB powered devices using standard military batteries: BA-5590/U, BA-5390/U, BB-2590/U, and BB-390/U's. The dual power charger works with most devices as you phone, PDAs, cameras, Tablets, portable media players and much more. BA-5590/5390 & BB-2590/U Charger Charge up your USB powered devices using standard military batteries used on AN/PRC-148 & AN/PRC-152 handheld radios. In addition, it provides instant State of Charge and provides the ability to charge with OPTIONAL BTC-70810 charger. MBITR: Calling in (click to view full)The AN/PRC-148 MBITR is the hand-held radio for USSOCOM, the most widely fielded multi-band portable radio in the US armed services, and is also in use by many NATO Special Forces. Special Operations Technology has described the 31-ounce PRC-148 multiband inter/intra team radio (MBITR) as "one of the many communications marvels that made the fighting in Afghanistan and Iraq possible" thanks to its small size, software-based structure, and virtually complete interoperability with other military radios and commercial systems. With lithium ion batteries, the user can reportedly expect about 8-10 hours of life. In addition, they note, "More than one Pentagon official has singled out the MBITR for praise during recent operations in Afghanistan."Now Thales Communications has received a \$43 million order for AN/PRC-148 JTRS Enhanced MBITR, or JEM radios. They may represent the first radios to be fielded for tactical use under the US military's transformational JTRS program; it's a close and sometimes confusing race with Harris' AN/PRC-152(C). DID explains how the PRC-148 became so popular, and offers a glimpse into the development model that made them first out of the gate with a tactically-deployed, (partly) JTRS-compliant product... PRC-148: How a Combat Success Came to BeAN/PRC-148 MBITR options(click to view full)Thales Communications has worked with US SOCOM as a communications supplier for many years, was involved in the early stages of the JTRS program, and remains part of a number of JTRS-related projects. Unlike the "big bang" approach that was taken in other areas of JTRS, Thales Communications and SOCOM have both focused on incremental improvements to a flexible base platform, in order to deliver new capabilities quickly and with less risk. For instance, an October 2004 article in Special Operations Technology quotes Hugh Stallworth, USSOCOM program manager of JTRS Cluster 2, as saying that the goal with JEM was to establish the best near-term interim solution for a handheld radio based on the existing AN/PRC-148. That goal appears to have been achieved with the December 2006 order.This approach has been a hallmark of the AN/PRC-148 program since its inception. Lt. Col. David M. Fielder (ret.) had this to say in a June 2005 issue of Army Communicator, as he traced the genesis of the PRC-148 system, and explains how it came to be a de facto US military handheld standard."During the 80s and 90s several attempts were made to standardize hand-held radio requirements that resulted in the procurement of good equipment [that had notable drawbacks and so never became popular]. By the late 1990s into this tactical communications jungle stepped the U.S. Special Operations Command whose communicators woke up and saw the value of handheld tactical radio communications that could operate across all frequency bands, modulation modes, and waveforms being used in the DoD. SOCOM had long rejected the "big" Army's requirements and material development process so they went forward to develop a handheld radio using their own requirements and procurement methods. The result of this effort was the development of a new and unique handheld radio named the AN/PRC-148 or Multiband Inter/ Intra Team Radio. MBITR went into full production in FY-2000.With the advent of the Transformation Army, the Stryker Brigade Combat Teams and the deployments to Afghanistan and Iraq the "big" Army was forced to confront its lack of critically needed secure, broad frequency band, handheld radio communications head on just like SOCOM had done a few years before. Very fortunately for the Army, the SOF community had already completed the engineering development and competitive procurement of the AN/PRC-148 just when the post 9/11 Army most required this capability. Even more fortunately, SOF contracting officials were smart enough to include large numbers of radios as options on the basic AN/PRC-148 procurement contract thus throwing the door open for mass procurement by the "big" Army..."As their site reminds us, however, "This item is not available for online purchase." This is, of course, due to the US Type 1 encryption capabilities included in all versions of the PRC-148. A version called the AN/PRC-6809 MBITR Clear is available without encryption, for use by militaries that would find ITR export approval in this sensitive area difficult. It's also an option for public safety workers like police, firefighters, et. al., who either do not require encryption or are satisfied with the PRC-6809's Level III DES option.Thales Communications' FAQ says that the PRC-148 is compatible with: "AN/PRC-68, AN/PRC-117, AN/PRC-77, AN/VRC-12, AN/PRC-113, AN/PRC-139, AN/PRC-119, AN/PSG-5, Motorola LST-58/C, (225,000-399,995 MHz), Motorola MX300 Series, Motorola Saber, Motorola XTS 3000, and Motorola XTS 5000." The AN/PRC-148 (both MBITR and JEM configurations) is part of a larger radio family, including a Vehicle Adapter with a cable-free rapid radio dismount capability; dual radio AN/VRC-111 Vehicle Adapter Amplifier; a Base Station for fixed applications in command posts et. al.; a Tactical Repeater for range extension; and compact, rugged Man Portable Systems for dismounted operations requiring higher power output. All of these systems work with, and in many cases use, the MBITR/JEM handsets.As of the end of February 2007, there were more than 80,000 AN/PRC-148 MBITRs fielded, approximately 31,000 of which were in use by the US Army. AN/PRC-148 JEM handset(click to view full)JEM is based on the software-defined AN/PRC-148 MBITR, and has successfully gone through government testing, evaluation, and certification. It's important to note, however, that it is not compatible with all aspects of JTRS. Rather, the AN/PRC-148 JEM is more like a stepping stone to a JTRS compliant system.In order to take this step under an Engineering Change Proposal per SOCOM's desired incremental approach, Thales replaced two existing hardware assemblies (front panel and COMSEC control assemblies) and modernized its security module of the AN/PRC-148 MBITR. Result: the AN/PRC-148 JTRS Enhanced MBITR (JEM) version. The JEM's JTRS-compliant digital structure and software programmability has been extended to waveform elements of the existing and future JTRS software library, including trunking and other options across the current RF band of the radio (30-512MHz).While these features and its programmability will allow the JEM to function relatively well in a JTRS world, JEM doesn't include all the parameters defined in the full ORD which will be in the JTRS HMS Handheld.The JTRS HMS project is currently underway, with an expected production date of February 2007."DID's take? Depending on how you choose to measure it, it seems that either manufacturer could make a case for being first.In the end, of course, the fielding rights matter less than performance in the field. We wish both manufacturers every good fortune on that front.Key Contracts and EventsMBITR on 101st in Iraq(click to view full)Unless otherwise specified, all contracts are issued to Thales Communications Inc. in Clarksburg, MD.Note that the US Type 1 encryption/security requirements for its products have forced Thales Communications to set up a structure as a proxy-regulated company, with an arm's length relationship to its parent firm. That way, it can be deemed "free of foreign ownership, control, and influence," and considered to be a 100% American company by the U.S. Government.Aug 28/07: Thales Communications, Inc. announces the manufacture and delivery of the 100,000th AN/PRC-148 MBITR radio. In a ceremony held on July 30/07, Thales Communications CEO Mitch Herberts presented the 100,000th MBITR to Steven Kundrat, Program Executive Officer for Intelligence and Information Systems, Center for Acquisition and Logistics, U.S. Special Operations Command (USSOCOM). Rep. Roscoe Bartlett [R-MD] was also honored for his role in promoting the program. See Thales Communications release, June 18/07: The US military issues \$9+ billion in contracts for hand-held and vehicular radios. Harris and Thales Communications are the 2 winners; DID details the contracts and the offerings. Future acquisitions will be made under this vehicle, and so future DID acquisition coverage will be found under that article.May 14/07: Jane's International Defence Review reports that "proposals were due in at the end of April to the US Navy Space and Naval Warfare Systems Center – San Diego (SPAWAR), which hosts the Joint Tactical Radio System (JTRS) Joint Program Executive Office (JPEO), for software-defined radios able to fulfil a new joint-service Consolidated Interim Single-Channel Handheld Radio (CISCHR) requirement. The latter is planned to involve the supply of an estimated 220,610 multiband, multimode radios under five-year indefinite-delivery/indefinite-quantity (ID/IQ) contracts, for use by all the US armed services in handheld and vehicular roles."March 1/07: General Dynamics Delivers JTRS HMS Prototype Radios to the U.S. Government. The release notes the incremental delivery model, adding that the JTRS HMS team included an early version of the "SLICE 1.04p/' Soldier Radio Waveform – the newest JTRS HMS networking waveform.Dec 27/06: Thales Communications Inc. in Clarksburg, MD (near Hartford), received a \$43.6 million modification to a firm-fixed-price contract for Enhanced Multi Band Inter/Intra Team Radio Handheld Radios Urban Version, accessories and warranties to existing radios. Bids were solicited via the world wide web on Nov. 29, 2006, and 1 bid was received by the U.S. Army Research, Development, and Engineering Command at Aberdeen Proving Ground, MD (W91CRB-05-F-0077).Discussions with Thales Communications revealed that this order is for about 5,000 AN/PRC-148 JTRS Enhanced MBITR, or JEM radios. See Thales Communications' Feb 26/07 release.Jan 3/05: Thales Communications Inc. in Clarksburg, MD received an \$8.2 million firm-fixed-price, indefinite-delivery/indefinite-quantity contract for multi-band inter/intra team radios, also known as the tactical Hand Held Radio or PRC 148 and associated maintenance. This contract contains options, which if exercised will bring the cumulative value of this contract to a maximum of \$75 million.Work will be performed in Clarksburg, MD and is expected to be complete December 2009. This contract is a sole source award to Thales Communications, Inc. as they are the sole manufacturer of the PRC 148. The Marine Corps Systems Command in Quantico, VA issued the contract (M67854-05-D-7013).Additional Readings & Sources Thales Communications, Inc. – JTRS Enhanced MBITR (JEM): AN/PRC-148(V)3(C) - AN/PRC-148(V)4(C) Thales Communications – FAQ. Covers several aspects of the PRC-148 JEM. Harris RF Communications – NSA-certified AN/PRC-152(C) General Dynamics C4 Systems (March 1/07) – General Dynamics Delivers JTRS HMS Prototype Radios to the U.S. Government. National Defense Magazine (Feb 2007) – Delays in 'joint tactical radio' program cast doubts on future. This excerpt sums it up: "Army officials would like to have the advanced JTRS radios, but they have to wait so long to get them that they prefer to buy proven legacy technology or commercially developed software radios. But the more money that goes into these alternatives to JTRS, the less likely that the program will get off the ground. Troops on the ground in Iraq, meanwhile, remain encumbered by the lack of radio interoperability between services – a problem that JTRS was expected to solve." Military Information Technology (Dec 20/06) – Radio Executive: Interview with Dennis M. Bauman [of JPEO JTRS]. See esp. his comments re: JEM and the Harris PRC-152. Harris RF Communications (Dec 11/06) – Harris Corporation's Widely Fielded Falcon III AN/PRC-152(C) Receives SCA-Certification from the JTRS Joint Program Executive Office. As with MBITR, it was certified with waivers. Special Operations Technology (Nov 19/06) – Can You Hear Me Now? Thales Communications, Inc. (Nov 16/06) – Thales' AN/PRC-148 JEM Becomes the First Government Approved Joint Tactical Radio System Radio in Production Harris RF Communications (Oct 9/06) – Harris Corporation Introduces Falcon III Multiband Manpack Radio Microwave Journal – Harris Corp. Receives \$169 M Contract for Multi-band Vehicular Systems DID (July 28/06) – JTRS Program to Continue After Restructuring Army Communicator (June 22/05) – MBITR communications = power in your pocket (Multiband Inter/Intra Team Radio). An excellent overview of the PRC-148's capabilities from a front-line perspective. Also includes an excellent recent history of Army procurement efforts in this area, and issues/dangers in the present day. DID (April 28/05) – Jittery Over JTRS, Pentagon Puts Boeing on Notice. Comments what used to be "JTRS Cluster 1." The vehicle radios from Cluster 1 and the Handheld, Manpack & Small (HMS) radios from Cluster 5 are now under the JTRS Ground Domain program. This article includes links to all other JTRS-related articles here on DID. Special Operations Technology (Oct 21/04) – JTRR Takes the Stage. DID cannot find any reference to JTRR or equivalent products in Harris' current product literature.Categories: C4ISR, Contracts - Awards, Field Reports, FOCUS Articles, Forces - Special Ops, General Dynamics, IT - Cyber-Security, New Systems Tech, Partnerships & Consortia, Project Successes, R&D - Contracted, Signals Intercept, Cryptography, etc., Signals Radio & Wireless, Soldier's Gear, Thales, Transformation, USA

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