



**ITV**  
Operations and Training Newsletter

The 96th Transportation Company, 553rd Combat Sustainment Support Battalion, 1st Cavalry Division Sustainment Brigade, ready their Heavy Equipment Transporter Systems (HETS) for port to fort operations at the Port of Beaumont in Beaumont, Texas, March 20, 2019. US Army photo by SPC Calab Franklin



**In this Issue**

- Hub & Spoke Analysis Page 1
- For & From the Field Page 3
- Site Analysis Page 3
- Tips & Tricks Page 4

 [facebook.com/usarmyamis](https://facebook.com/usarmyamis)

**GOOD NEWS FOR PDK/PDK LITE/PDK II USERS**  
A big change in ONS requirements since the ordering instructions were posted in the March edition of this newsletter. See highlight on Page 3.

**Hub and Spoke Analysis**

The Hub and Spoke Query on the RF-ITV Tracking Portal gives depot managers, supervisors and other users the ability to view the most used shipment routes over a specified timeframe. It can also help identify problem areas as well as helping to improve business processes. This query finds all shipments that have traveled through a selected "Hub" interrogator and provides a list of interrogators, known as "Spokes," where these shipments were last read. For simplicity in this example, we selected Interrogator TSC310300001, NEWCMBLDW1, NEW CUMBERLAND PA-SC3103 VSM JAMS which is one of the two Write sites registered at that location.

To run this query go to the RF-ITV Tracking Portal, and select Report > Analysis > Hub and Spoke Query as shown in this screen shot.



At the next screen, enter the Interrogator ID and Date Range. For this example we selected Last Calendar Year from the dropdown, and Submit.

**Hub and Spoke Query**

This report locates all shipments that traveled through the "hub" interrogator, and outputs the list of interrogators ("spokes") that were traveled by those shipments. The report includes the number of tags exiting the hub ("outbound tag count") and the number of tags traveling to the hub from the spoke ("inbound tag count"). The Date Range corresponds to the last read at the hub interrogator.

(Note: This query may take a long time to execute and/or may timeout.)

Enter interrogator ID and date range

\* Interrogator ID (Hub):  (i.e. 51138)

\* Date Range  
Select a View:

OR  
Enter a Date Range:  
From:    
To:

All dates are in GMT

\* Required Field

For questions or comments, please contact one of the following

**ITV POCs**

**Raquel Wampouille**

Sustainment/Deployment Team Lead  
[raquel.s.wampouille.civ@mail.mil](mailto:raquel.s.wampouille.civ@mail.mil)  
 (703) 806-0420 | DSN (312) 656-0420

**Jerry Rodgers**

RF-ITV Training Support  
[jerry.d.rodgers.ctr@mail.mil](mailto:jerry.d.rodgers.ctr@mail.mil)  
 (703) 806-0432 | DSN (312) 656-0432

**Robert Carpenter**

Sustainment/Deployment Support  
[robert.f.carpenter.ctr@mail.mil](mailto:robert.f.carpenter.ctr@mail.mil)  
 (703) 806-0418 | DSN (312) 656-0418

**Charles Van Sistine**

CENTCOM LNO  
[charles.a.vansistine.ctr@mail.mil](mailto:charles.a.vansistine.ctr@mail.mil)  
 (813) 529-4181 | DSN (312) 529-4181

**AMIS Systems**

**Engineering POC**

(Vacant)

**Combined Arms Support Command (CASCOM)**

**Rick Boch**

CASCOM ITV POC  
[richard.k.boch.civ@mail.mil](mailto:richard.k.boch.civ@mail.mil)  
 (804) 734-2388 | DSN (312) 687-2388

From the Query results we selected to display **All** results (abbreviated below). From there, we click on the Column labeled **Tag Count – Outbound Tags (from Hub to Spoke)**. Then click it a second time to show the results from largest to smallest. Since we are concerned with **NEWCMBLDW1** shipments being shipped out of the installation, we will exclude **NEWCUMBERLANDR1** as a spoke (lined out below), the read site that catches the tags going out this particular gate.

Excel PDF

Display All results

First Previous 1 Next Last Displaying results 1 - 99 of 99 found

Hub Interrogator ID	Hub Interrogator Name	Spoke Interrogator ID	Spoke Interrogator Name	Tag Count - Outbound Tags (from Hub to Spoke)
TSC310300001	NEWCMBLDW1	18710814262278	KANEOHER4	147
TSC310300001	NEWCMBLDW1	52749	ASSALIYAHQAR2	126
<del>TSC310300001</del>	<del>NEWCMBLDW1</del>	<del>44781</del>	<del>NEWCUMBERLANDR1</del>	<del>102</del>
TSC310300001	NEWCMBLDW1	40815	BUSANR8	89
TSC310300001	NEWCMBLDW1	61213	PEARLR7	88
TSC310300001	NEWCMBLDW1	61100	MKABR3	85
TSC310300001	NEWCMBLDW1	52674	GERMERSHEIMR6	62
TSC310300001	NEWCMBLDW1	59999	SHUWAIKHR2	54
TSC310300001	NEWCMBLDW1	43442	GERMERSHEIMR7	50
TSC310300001	NEWCMBLDW1	52779	SHUAIBAHR3	43
TSC310300001	NEWCMBLDW1	18710766026784	REDBRIDGER1	42
TSC310300001	NEWCMBLDW1	55526	SHUWAIKHR2	35
TSC310300001	NEWCMBLDW1	60115	HONOLULUR3	32
TSC310300001	NEWCMBLDW1	52201	KANDAHARR11	22
TSC310300001	NEWCMBLDW1	41326	SARPIR1	20

From there you can draw a mental and physical picture of the hub with it largest spokes (by number of outbound shipments received from the hub).



As we stated in the beginning, this example was limited to one Write site at the New Cumberland location shipping to various individual Read sites around the world to illustrate the Hub and Spoke query process. Since there are often more than one Write site at a location that ships to other locations with more than one Read site, a more thorough analysis may be in done by adding up the total shipments from a location as well as the total tags captured by all of the read interrogators at a location. To assist in such a thorough analysis, you can download the results to an Excel Spreadsheet by clicking on the Excel icon in the upper left of the results screen.

### **Need to Order RFID Tags?**

Defense Logistics Agency (DLA) has the following tags with NSN 6350-01-633-7731/7732/7338/7342 and 631-2568 listed as non-stocked items and you may not get the tags for up to sixty days or longer. Currently, DLA has only 6350-01-579-3126 (Data rich tag with DLA Label) in stock. Tags can be mounted without the optional mounting brackets.

### **TIPS Write Product Key**

The Total Asset Visibility (TAV) In-Transit Processing Station - Write (TIPS-Write) software version 4.10.0 comes with a product key solution that has been implemented to prevent unauthorized installation and execution of the RF-ITV TAV TIPS Software. In order to install the software, users must call the Service Desk to obtain a product key for installation. Without a product key, the software cannot be installed.

## **AMIS Service Desk**

**Toll Free within the US or DSN: 1 (800) 877-7925**

**Email: [usarmy.belvoir.peo-eis.mbx.amis-service-desk@mail.mil](mailto:usarmy.belvoir.peo-eis.mbx.amis-service-desk@mail.mil)**

**Help is available 24 hours per day/7 days per week/365 days per year**

**PLEASE NOTE...the Service Desk should be contacted before any attempt is made to reach an AMIS Field Service Engineer (FSE) in your area.**

If you would like to subscribe to the AMIS ITV Operations and Training Newsletter, or if you have a noteworthy RF-ITV story, lesson-learned, or short article for publication in the newsletter, please submit to AMIS at: [jerry.d.rodgers.ctr@mail.mil](mailto:jerry.d.rodgers.ctr@mail.mil).

---

## **FOR & FROM THE FIELD**

---

### **The RFID-IV Contract with Savi Technology Extended**

The RFID-IV Contract with Savi Technology has been extended. This extension is for a maximum of one year with a period of performance from 8 April 2019 through 7 April 2020. This is a de-centralized contract on which Ordering Contracting Officers can award delivery orders based on their customers' requirements. All funding for the extension period will be obligated on a delivery/task order basis.

The new contract is located at: [https://usarmyamis.army.mil/Contracts\\_RFIDIV.html](https://usarmyamis.army.mil/Contracts_RFIDIV.html). Then under "Contract Information" select "Conformed Contract" to see the complete list of items and services on the contract.

### **Special Notice for RF-ITV PDK and PDK Lite Users**

Last month we announced in this newsletter that new PDK/PDK Lite users would be required to submit an Operational Needs Statement (ONS) and receive HQDA 3/5/7 approval prior to ordering new Iridium SIM cards. We have since been notified by HQDA G4/5/7 of an exception to that policy: **Any equipment (e.g., PDK /PDK Lite/PDK II) with an approved LIN does not require an ONS.**

---

### **Site Analysis: DOVERAFB DE 436 APS MOBFLT GATES (Device ID TDC4A3E73FFBB)**

---

For this month's analysis we selected write device ID TDC4A3E73FFBB (DOVERAFBW759), located at Dover Air Force Base, Delaware. From the **RF-ITV Tracking Portal** we selected **Track > Sustainment Cargo**, entered a 'Write Station ID' of **TDC4A3E73FFBB** and for the 'Write Date' entered **20 through 25 March 2019**. This query and criteria produced 72 tagged shipments to analyze. The result of our data analysis is:

- By comparing RF tag data such as the Consignee Department of Defense Activity Address Code (DoDAAC) or Military Assistance Program Address Code (MAPAC), Port of Debarkation (POD) on the RFID tag to the Read events of the tag and Last Reported Interrogator Name, we were able to track 55 of the 72 tagged shipments (76.4%) to their final destination.
- Of the 17 shipments whose arrival at final destination could not be determined/confirmed using data on the RF-ITV Tracking Portal:

- Six RF tags were never “Read” moving through the distribution pipeline after the initial write event (never read on or leaving Dover Air Force Base). We were unable to confirm due to the lack of RF-ITV Tracking Portal data, but it appears these shipments may have been canceled and the tags not erased or somehow the RF tags were separated from or never attached to the shipments. A review of the RF-ITV Tracking Portal and IGC (Integrated Data Environment (IDE) and Global Transportation Network (GTN) Convergence) indicated that none of the TCNs were repopulated/reused on a new RFID tag/shipment.
- Four RFID tags were last read at the Port of Embarkation (POE), Dover Air Force Base, Delaware. Based on other shipments in our data selection with similar destinations, transportation priority and arrival date at the POE, these shipments should have reached their respective POD and final destination by the conclusion of this analysis. The assumption is the RFID tags were either never associated to the shipment prior to movement or the RF tags were separated from the shipment while waiting for transportation.
- Seven tags/shipments were last read at interim airfields (i.e., Ali Al Salem Air Base Kuwait and Al Udeid Air Base Qatar) that were not the POD or final destination of the shipments.
- In all instances the POE and POD code were found to be valid and used properly.
- Of the 72 tags we analyzed, 71 had valid Consignor and Consignee DoDAACs or MAPACs listed in the required field. The one remaining shipment, both the Consignor and Consignee DoDAAC fields were left blank.
- The commodity data for the 72 tags written by the consignor was completely blank and provided no information. However, we were able to find a portion of the cargo’s nomenclature and some of the NSNs in the TCMD data for the 72 shipments. Complete commodity data in the proper fields allows users more options for query searches, provides information for origin/historical determination and provides more complete data sharing with other ITV systems.
- The Registration page (Site Details) information was checked by verifying that naming convention rules were followed when the device was named. The e-mail address provided on the write site’s registration page for the POC was returned as invalid. We were able to make contact with the ‘new’ write site POC via the listed phone number. Instructions were provided on the process to update the registration page with current contact information.

## RF-ITV Tips and Tricks

### Searching Through Archived Shipments

Reuse of RFID tags (re-writing them with new shipment data) is highly encouraged because the practice can save units a significant amount of time and money. Typically, RFID tags are readily available in most shipping/receiving areas, therefore they can be utilized instantly for new shipments. Please note...when an RFID tag is reused, subsequent data queries on the **RF-ITV Tracking Portal** for that particular tag number will display only the most recently uploaded shipment data (i.e., none of the data from previous shipments will be displayed). In addition to tracking current shipments, the Tracking Portal has a tool available to track previous shipments and assist users with locating lost or delayed shipments, as well as analyzing the steps and route a particular shipment went through from start to finish. The last option can be a great tool to find out if costs for further shipments could be cut by selecting an alternative route or predicting the arrival date of the next such shipment. To see previous shipments assigned to an RFID tag, Transportation Control Number (TCN) or Document Number, a simple search through the ‘Archived Shipments’ section would provide all archived data for the RFID Tag in question. This “Tips and Tricks” article steps through the ‘Archived Shipments’ process with RFID tag **18710593013987**; the same procedure works using the TCN or Document Number.

If an RFID Tag is reused and previous data is required, a simple RFID TAG query would return only the current shipment assigned to the Tag.

TAG ID: 18710593013987

Excel PDF KML

Lead TCN	Container Number	Consignor DoDAAC (From)	POE/POD Consignee DoDAAC (To)	Hazmat	Transportation Priority	Operation	Service Class	Supply
W81FPU8262005XXX	W81PLH		53W53J W81FPU	X	3		USA	

Free Text

Sensor Info - This is not a sensor tag.  
There is no sensor information for this shipment.

Satellite  Off  On

Location/Tracking - Last reported at CHIEVRESR01 at 2019-MAR-28 03:53									
First Reported Date	Last Reported Date	Event	RF Hit(s)	Battery Status	Site ID	Site Name	Site Description		
2019-MAR-18 10:25	2019-MAR-28 03:53	READ	27840	LOW BATT	40700	CHIEVRESR01	CHIEVRES BE 405TH AFSB LRC ACM GCSS-A		
2019-MAR-18 09:37	2019-MAR-18 09:47	READ	101	LOW BATT	18710766026782	CHIEVRESABR2	CHIEVRES AB BE TRUCK GATE 14		
2019-MAR-18 02:07	2019-MAR-18 02:07	READ	1	LOW BATT	43638	KAISERSLAUTERNR12	KAISERSLAUTERN DE ROB RAILHEAD BLDG 398		
2019-MAR-18 02:06	2019-MAR-18 02:06	READ	1	LOW BATT	60134	KAISERSLAUTERNR10	KAISERSLAUTERN DE ROB GATE 2		
2019-MAR-15 08:41	2019-MAR-15 08:41	READ	2	LOW BATT	43635	GERMERSHEIMR1	GERMERSHEIM DE GAD GATE 1 OUTBOUND		
2019-MAR-11 17:59	2019-MAR-15 08:40	READ	5936	LOW BATT	43442	GERMERSHEIMR7	GERMERSHEIM DE GAD BUILDING 7983		
2019-MAR-11 13:20	2019-MAR-11 13:20	READ	23	LOW BATT	41139	GERMERSHEIMR4	GERMERSHEIM DE GAD GATE 2		
2019-MAR-08 06:37	2019-MAR-11 11:40	READ	17881	LOW BATT	43812	WACKERNHEIMR2	WACKERNHEIM DE 5TH SIG S5A BLDG 6291		
2019-MAR-07 13:53	2019-MAR-07 13:53	WRITE	1		T5C260A753ECC	WACKERNHEIMW8	WACKERNHEIM DE OUTBOUND CMOS-ARMY		

View Map

First, log onto the RF-ITV Tracking Portal (<https://national.rftv.army.mil>) via CAC, and from the Track drop-down menu, select Sustainment Cargo.

Once the Sustainment Cargo section is open, scroll down to the bottom left corner of the page and click on the Archived Shipment box.

Track | Manage

Home > Track > Sustainment Cargo

**Sustainment Cargo**

Cargo/Sustainment last location

Search: (Please select one) (hide)

- Cargo/Sustainment last location
- Unit move tracking
- I am a supply activity operator
- I am a port or node operator

Shipment ID

- Document Number
- TCN
- Tag ID
- Container/Pallet ID
- Satellite Device ID
- Other Alias

Unit Move

- UIC
- ULN
- Operation
- Military Unit

Commodity

- NSN
- Remarks
- Nomenclature

Ammo

- Lot Number

Origin - Destination

- Consignor DoDAAC
- POE
- POD
- Consignee DoDAAC
- Write Station ID
- Read Station ID

Last Reported Location

- Country
- State/Territory
- FEMA Region
- Route

Date

- Last Reported Date
- Write Date

Other

- Purchase Order
- Free Text

**Archived Shipments**

This will go to the archived data search page to search only RFITV's archived database. It will NOT search for the current in-transit shipments.

The next screen will present several data elements to select from in order to build a search query (an entry field will appear after clicking on each data element).

Shipment ID

- Document Number
- TCN
- Tag ID

Unit Move

- UIC
- ULN
- Operation
- Military Unit

Current Shipments

This will go back to the current shipments search page.

When the **Tag ID** field is chosen and the **Tag Number** entered, it is important to enter the date range for the search in order to filter through all archived data for that particular RFID tag.

Enter at least one value and click submit.

**Tag ID** 18710593013987 **Enter RF Tag Number**

Select a View: Today

OR

Enter a Date Range:

From: 01-JAN-2016 **Enter Date Range**

To: 28-MAR-2019 23:59:59

All dates are in GMT

Submit Reset Saved Queries

In the example for RFID Tag **18710593013987**, seven **Archived Date** recorded shipments were found. Click on the desired shipment to view details

Archived Shipments

This search will only search RFITV's archived database. It will NOT search for the current in-transit shipments. Click [here](#) to go back to search current shipments.

Go Back to Query

Your Selections x Tag ID: 18710593013987 x Write Date: From: 01-JAN-2016 To: 28-MAR-2019

Excel PDF KML

Table View Map View

Choose Archive Date for shipment to see details

Display 100 results

First Previous Next Last Displaying results 1 - 7 of 7 found Find in results: Show/Hide Columns

Archive Date	Tag ID	Lead TCN	Container Number	UIC	ULN	Operation	Military Unit	Consignor DoDAAC (From)	POE	POD	Consignee DoDAAC (To)	Last Reported Location	Last Reported Date	Tag Closed
2019-03-27 17:52:41	18710593013987											WACKERNHEIM DE OUTBOUND CMOS-ARMY	2019-03-07 13:52:00	NO
2017-10-30 03:03:44	18710593013987	M2006070477204XXX	RWHGAMW894				ARMY	SWE300	S21	S3D	WK4EX8	STUTTGART DE PANZER KASERNE MAIN GATE	2017-05-02 10:38:00	NO
2017-05-02 08:15:47	18710593013987	W58PHK7101HRE1XXX	RWHGAMW894B				ARMY	SWE300			W58PHK	GERMERSHEIM GM: DODEDEWI DLA DSS JAMS	2017-05-02 08:14:00	YES
2017-04-18 09:24:30	18710593013987											GERMERSHEIM GM: DODEDEWI DLA DSS JAMS	2017-04-18 09:23:00	NO
2017-04-18 09:24:28	18710593013987	SW31237083WB77XXX	10124H 7083					SW3124	WRI	RMS	SW3207	GERMERSHEIM DE GAD BUILDING 7583	2017-04-18 09:10:00	NO
2017-03-24 13:06:49	18710593013987											NEW CUMBERLAND PA: DDFSP2W1 DLA DSS JAMS	2017-03-24 13:05:00	NO
2016-12-08 03:09:55	18710593013987											NEW CUMBERLAND PA DLA DDFSP TRUCK GATE ARR/DEP	2016-06-10 12:39:00	NO

Once the **Archive Date** is selected, all available data for this shipment is displayed, the same as with the regular query done for the current shipment, with the search indicated as **Archive DTG: (Date range)**.

**TAG: 18710593013987**  
**ARCHIVE DTG:30-OCT-17 03:03:44**

**Archive DTG Notification**

This shipment was queried by TAG\_ID: 18710593013987

Lead TCN	Container	Consignor (From)	POE	POD	Consignee (To)	Hazmat	TP	Operation	Service	Class
M2006070477204XXX	RWHGAMW894	SWE300	52J	53D	WK4EX8	J	1			

**Free Text**

Satellite  Off  On

Location/Tracking - Last reported at STUTTGART2 at 02-MAY-17 10:38

First Reported Date	Last Reported Date	Event	RF Hit(s)	Battery Status	Site ID	Site Name	Site Description
02-MAY-17 10:38	02-MAY-17 10:38	READ	22	LOW BATT	53890	STUTTGART2	STUTTGART DE PANZER KASERNE MAIN GATE
02-MAY-17 08:40	02-MAY-17 08:40	READ	3	LOW BATT	43635	GERMERSHEIMR1	GERMERSHEIM DE GAD GATE 1 OUTBOUND
02-MAY-17 08:37	02-MAY-17 08:37	READ	74	LOW BATT	43442	GERMERSHEIMR7	GERMERSHEIM DE GAD BUILDING 7983
02-MAY-17 08:15	02-MAY-17 08:15	WRITE	1		TDDDE0000001	GERMERSHEIMDSSW1	GERMERSHEIM GM-DDDEDEW1 DLA DSS JAMS

**Commodity - Summary (10 items)**

Document Number	TCN	NSN	Nomenclature	RIC	LIN	Quantity	UOI	Shipment Condition Code	Remarks
M2006070477204	M2006070477204XXX	8105015171364	BAG,PLASTIC	SCP		00015	BX	A	
W5898X70260005	SW312370480050XXX	8460014907344	TRAVEL CART	SCP		00002	EA	A	
W5898X70260007	SW312370480050XXX	8460014907344	TRAVEL CART	SCP		00002	EA	A	
W907HC70410003	SW312370480050XXX	7520011863605	MARKER ASSOR	SCP		00002	AT	A	
M2006070730001	SW312371080078XXX	8345006561435	FLAG,NATIONA	SCP		00020	EA	A	
W907HC70970002	SW312371080078XXX	7510016169670	PROTECTOR,DO	SCP		00010	BX	A	
V341227089S014A	V341227089S014AXX	6840002550471	DISINFECTANT	SCP		00018	BT	A	
V341227110N102	V341227110N102XXX	6640001655778	BOTTLE,URINE	SMS		00002	PG	A	
W23A9F7089X002	W23A9F7089X002XXX	0000SUPPLIES	SUPPLIES	SCP		00001	EA	A	
W810J471110001	W810J471110001XXX	0000SUPPLIES	SUPPLIES	SCP		00001	EA	A	

This query can provide other metrics for historical or Quality Assurance (QA) purposes. For instance, the archive keeps records of whether a tag was closed or not. This can be helpful in determining if business processes needs to be changed, e.g., too many RFID tags are not being closed at the examined location, indicating the cargo flow may no longer pass by the interrogator.