



Active Radio Frequency Identification (aRFID) Tag Compliance for In Transit Visibility (ITV)

Mr. Michael Crupe, USTCJ3-IA





Overview

- USTRANSCOM J3 Operations Integration Division analyzes the aRFID tagging compliance and data completeness of ITV for cargo shipments.
 - Goal is to ensure required aRFID tagged 463L air pallets, International Standards Organization (ISO) containers, and rolling stock are visible in the Global Transportation Network (GTN)
 - Air and surface tag compliance metric charts are briefed monthly in J3 Operations update meetings





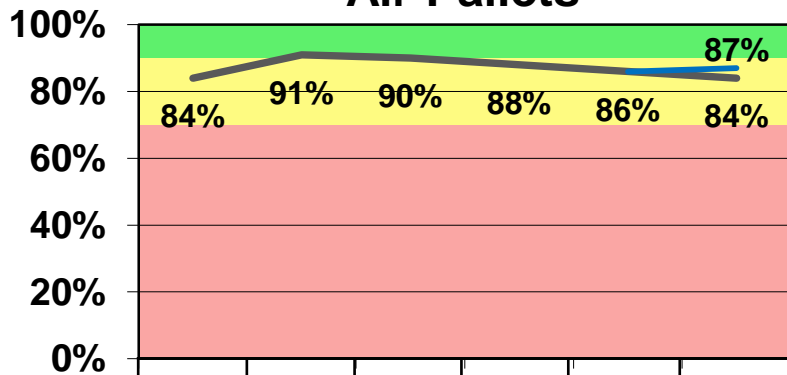
Data Quality Issues

- “Pseudo” voyage document numbers:
 - Analysis of surface shipments uncovered a problem where the container stuffers were using a “pseudo” voyage document number to construct their container TCNs. This practice negated the ITV of the containers since the aRFID tags attached to the containers did not match the real voyage document number TCNs on the manifest
- Mobility TCNs booked in Integrated Booking System (IBS):
 - Mobility TCNs are not matching the IBS TCN which is carried into the Water Port System (WPS) manifesting process. This issue is currently being refined for further systems analysis by TCJ6
- Re-manifesting surface containers in cross-dock operations:
 - En route port operations sometimes re-manifest surface containers negating the aRFID tag visibility in GTN. Either the original aRFID tag needs to be re-written or the manifest needs to carry the original container TCN forward.



EUCOM RFID Tagging Compliance (May – Oct 2009)

Air Pallets

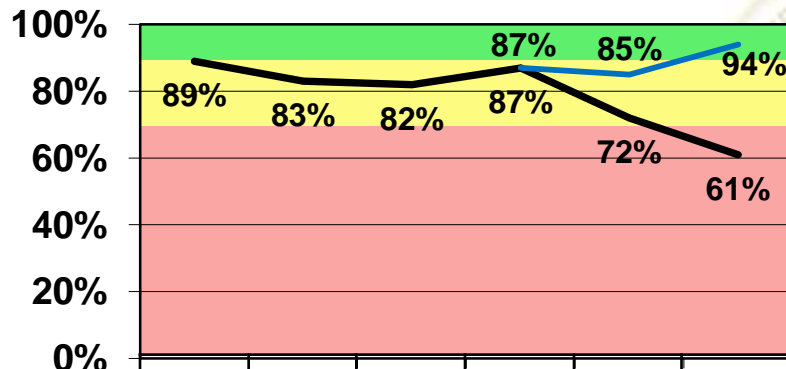


	May	Jun	Jul	Aug	Sep	Oct
Compliant	1240	1651	1831	1431	1232	1185
Total	1468	1814	2039	1617	1430	1361

Top 3 Non-Compliant Shippers

Location	Compliant	Total
Ramstein AB, Germany	835	883
RAF Lakenheath, UK	0	41
NAS Sigonella, Italy	120	145

Ocean Containers



	May	Jun	Jul	Aug	Sep	Oct
Compliant	1312	1259	1550	1185	1249	1501
Total	1466	1515	1892	1357	1472	1599

Top 3 Non-Compliant Shippers

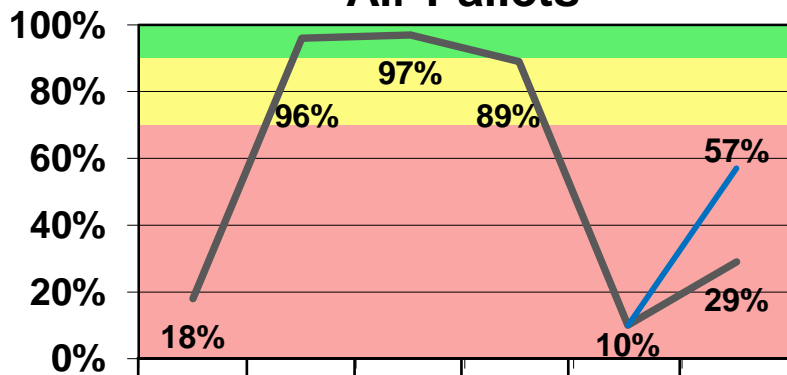
Unit / Location	Compliant	Total
OIC NALMEB / Verdal, Norway	0	18
DCMA Southern Europe / Kaiserslautern, Germany	0	18
48 FW LRS / RAF Lakenheath, UK	0	11

Source: GTN, IGC (GATES, CMOS, and RFITV Universes)



AFRICOM RFID Tagging Compliance (May – Oct 2009)

Air Pallets

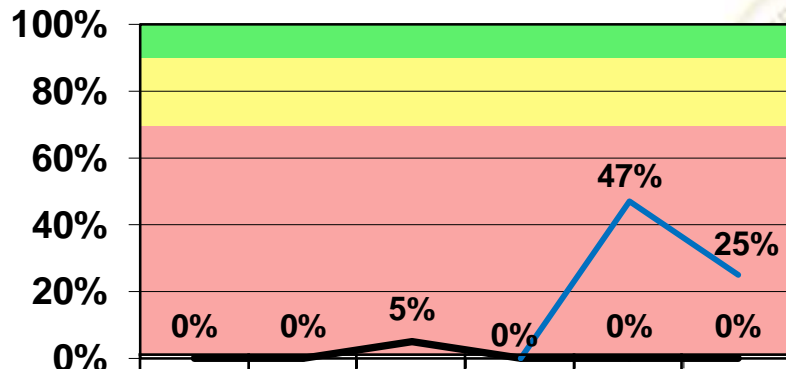


	May	Jun	Jul	Aug	Sep	Oct
Compliant	3	25	37	8	1	4
Total	17	26	38	9	10	7

Top Non-Compliant Shipper(s)

Location	Compliant	Total
Djibouti, Djibouti	4	7

Ocean Containers



	May	Jun	Jul	Aug	Sep	Oct
Compliant	0	0	2	0	9	15
Total	15	56	40	79	19	61

Top Non-Compliant Shipper(s)

Unit / Location	Compliant	Total
Critical Solutions International, Boksburg, South Africa	0	39
Kitgum Exercises / Mombasa, Kenya	0	18

Source: GTN, IGC (GATES, CMOS, and RFITV Universes)



Late Tags

- Background:
 - Tag data needs to be visible within 2 hours of tag write (USTRANSCOM measures at 48 hours to reduce comm. issues)
- Issues:
 - Training: Operators not transmitting tag data to the RF-ITV server when using manual send software (TIPS)
 - Communications: Tag data sent to the RF-ITV server but due to communications issues, data not received on time
- Solutions:
 - Working “auto send” software fix with TCJ6 & PMJ-AIT
 - Operator should check RF-ITV server for tag data during write event





Summary

- Overall compliance is good
- Continue concentrated efforts to standardize and simplify business processes
- Measure and improve
- Visualize ... “Actionable Data”





Questions?

