Wide Area Work Flow (WAWF) Presentation for 2005 DoD RFID Summit

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Agenda

- WAWF Overview
- System Architecture Overview
- Functional Process Flow
- Benefits – How Can WAWF Help Me?
- Success Stories
- Technology Behind the Application
- UID and RFID Data Submission and Flow
- Additional Resources

Why was WAWF developed?

- **Problem:** Acceptance & payment process is predominately supported by hard copy today (more labor intensive than electronic)
- High interest penalties because of lost or misplaced receiving reports
- **Objective:** Create an electronic commerce environment using existing tools and systems

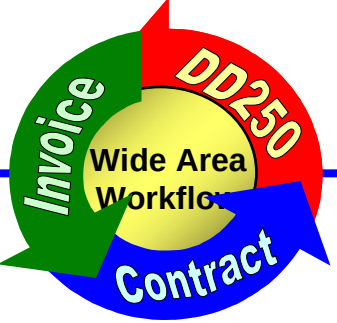
DoD Paperless Contracting Initiative

Eliminate the transmission of paper from one step to the next within the DOD contracting process

What is WAWF? What does it do?

- WAWF is a GOTS web-based application for DoD vendors to create electronic invoices and receiving reports
- WAWF is a PKI-enabled application that allows government users to digitally sign electronic documents over the web
- WAWF eliminates paper from invoicing and receipt / acceptance processes of the DoD contracting life cycle and electronically transmits data to the entitlement systems for payment
- WAWF uses automated e-mail to notify workflow users of document status and provides global document visibility to all users via the Internet
- WAWF is the standardized data capture mechanism for transmitting UID data from vendors to DoD for new acquisitions of tangible items
- WAWF is the standardized data capture mechanism for transmitting RFID data from vendors to DoD for vendor shipments to DoD

WAWF System Architecture



Vendor

Invoice & Receiving Report

Vendor EDI

GEX

Vendor FTP

Vendor Web

Vendor EDI

Government Workflow Users

Invoice & Receiving Report *SIGN REJECT PROCESS*

WAWF

GEX

UID Registry

MOCAS

SAMMS

One Pay

CAPS

BSM

JS

DSS (v3.0.7)

EDA

DAASC

CCR

View Only Users

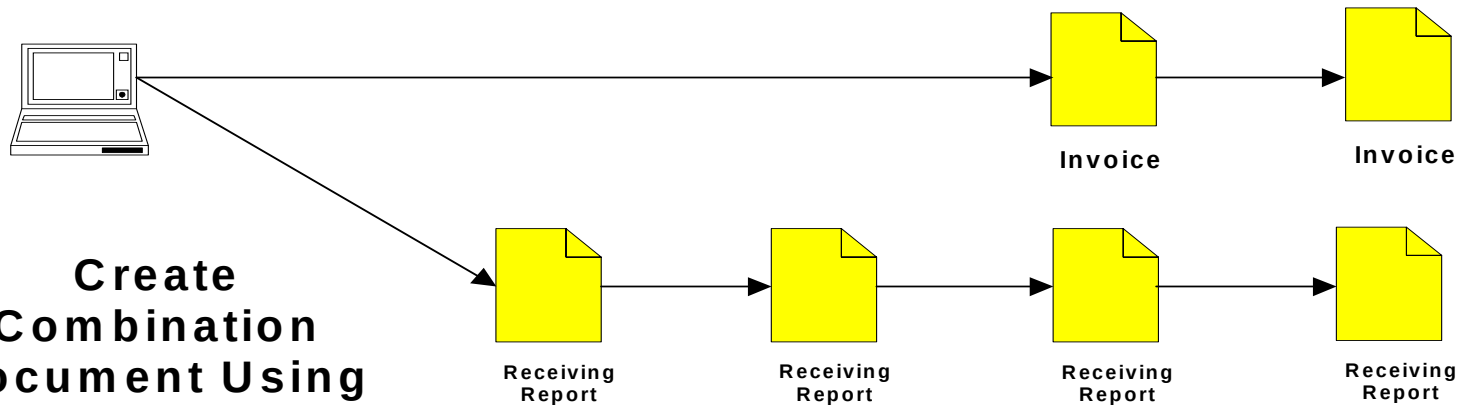
Invoice & Receiving Report *VIEW*

Email notices sent to workflow users

WAWF Functional Process Flow

Combination Document

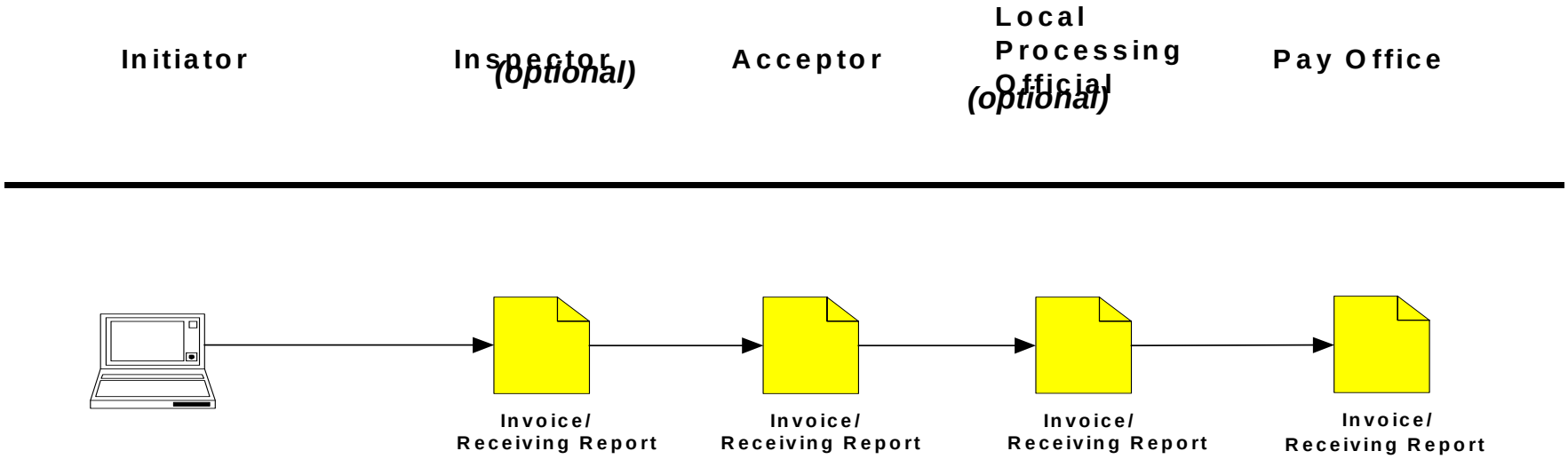
Initiator	Inspector *(optional)*	Acceptor	Local Processing Official *(optional)*	Pay Office



Create Combination Document Using WAWF

WAWF Functional Process Flow

2-n-1 Document



Create 2-n-1 Document Using WAWF

How can WAWF help me?

- Decreases document error rates
- Eliminates maintenance of hardcopy documentation
- Improves on-time payments
- Makes document status available at any time
- Provides immediate document rejection notice
- Captures UID data from the Vendor and transmits to the UID registry (v3.0.4 – May 2004)
- Captures RFID data from the Vendor and transmits to DoD (v3.0.7 – March 2005)

Success Stories

Current WAWF Metrics:

- **100,000 active user roles**
- **Over 120,000 documents processed in December 2004**
- **Over $6B Invoiced in December 2004**

DCMA experience:

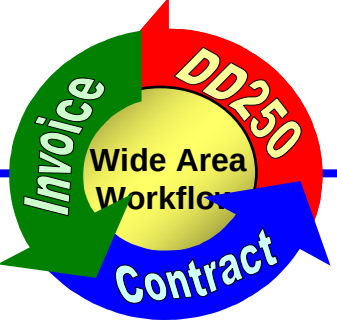
- **99.99995% on-time payment rate**
- **90% reduction in acceptance cycle time**
- **Reduction in late payment interest fees from an average of nearly $300 to $.02 per $1M disbursed**

Technology Behind the Application

Secure Web Workflow

- Open Source Platform
- Net-Centric Philosophy
- Adaptable Workflow Engine
- Role-Based Security
- System Specific Edits
- Document Security and Non-Repudiation
- Scalable Enterprise Solution

WAWF / DSS Interface Data Flow



Vendor

Receiving Report with UID & RFID Data

(1) Vendor EDI

GEX

Vendor EDI (1)

(1) Vendor FTP

(1) Vendor Web

WAWF

(4) UID Info

AR 861 (4)

GEX

UID Registry

UID Info (4)

(4) AR 861

Entitlement Systems Except SAMMS & BSM

GEX

AR 861 (3)

(2) ASN 856 with RFID Data

DAASC

DSS

GEX

(2) ASN 856

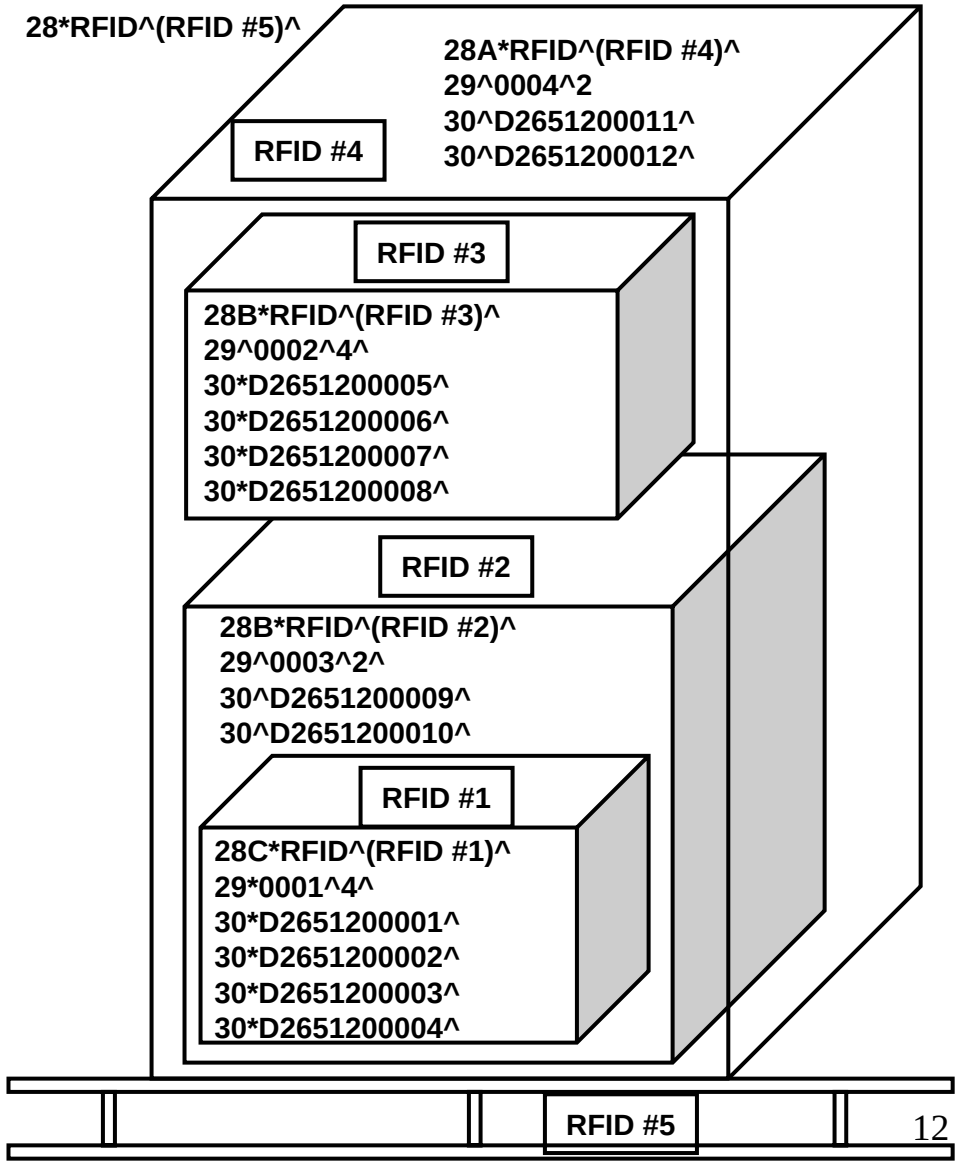
BSM

FTP for Multiple CLINs in Nested Cases with a Single CLIN per Case & a Single Case per CLIN on a Pallet

Wide Area Workflow

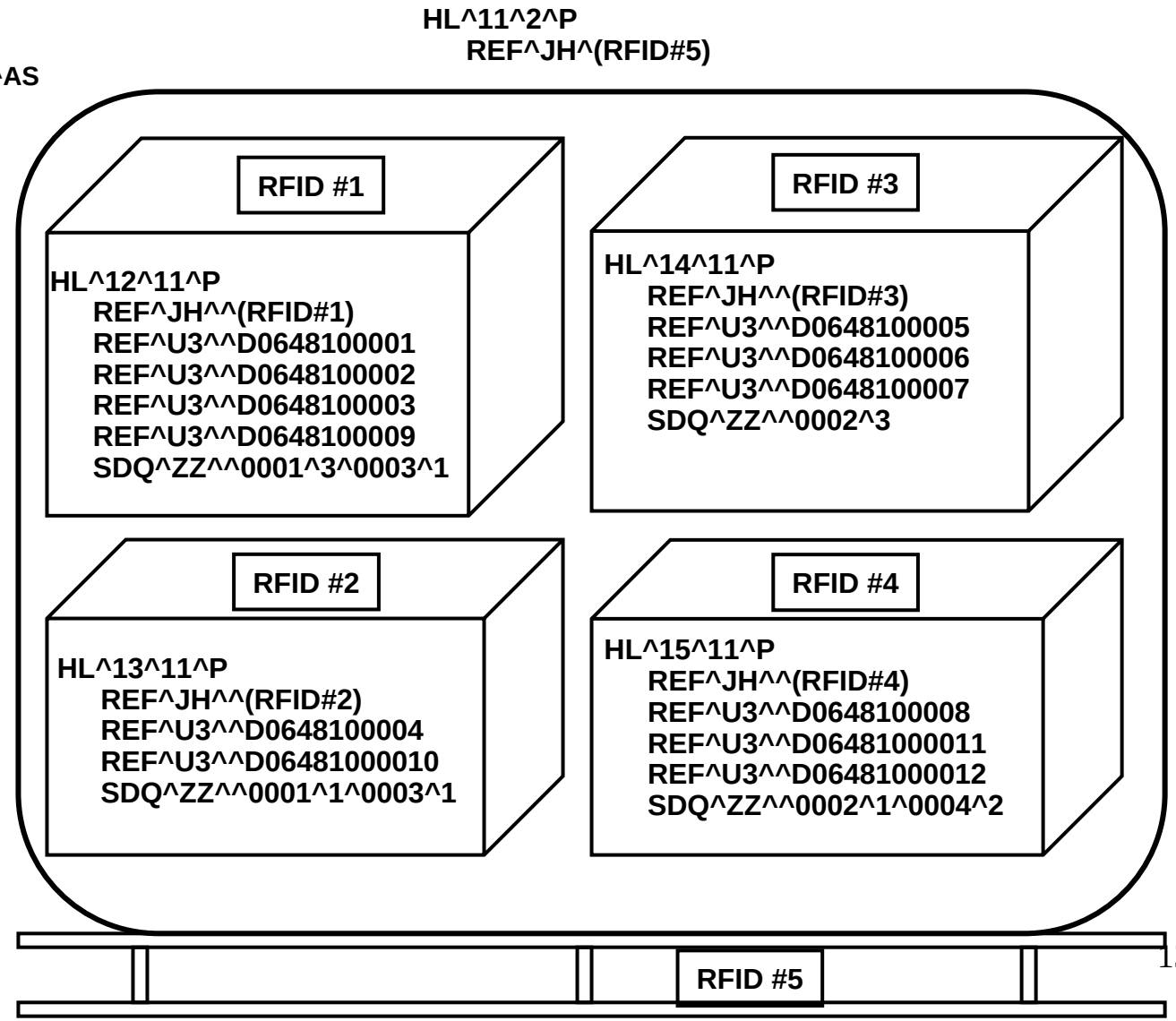
Invoice DD250 Contract

START*1^
A*ivendor^
B*RR^
1*M6785404C1234^^20040515^^
2*DIS0001^20040729^^N^
3*SPL^
8*S^S^
9*26512^^
10*S1103A^
10B*S1103A^^
11*^^D^
12*HQ0338^
13*SW3121^
15*0001^1^^
16*1005000012676^FS^
16A*CLIN 0001 Nomenclature^
16D*UID1^D^26512^^^^^^
16F*D2651200001^00001^
16F*D2651200002^00002^
16F*D2651200003^00003^
16F*D2651200004^00004^
17*4^^
18*EA^
19*5000.00^
15*0002^1^^
16*DEF^FT^
16A*CLIN 0002 descrip^
16D*UID1^D^26512^^^^^^
16F*D2651200005^00005^
16F*D2651200006^00006^
16F*D2651200007^00007^
16F*D2651200008^00008^
17*4^^
18*EA^
19*6000.00^
15*0003^1^^
16*GHI^FT^
16A*CLIN 0003 descrip^
16D*UID1^D^26512^^^^^^
16F*D2651200009^00009^
16F*D2651200010^00010^
17*2^^
18*EA^
19*7000.00^
15*0004^1^^
16*JKL^FT^
16A*CLIN 0004 descrip^
16D*UID1^D^26512^^^^^^
16F*D2651200011^00011^
16F*D2651200012^00012^
17*2^^
18*EA^
19*8000.00^
25*N^



EDI for Multiple CLINs in Multiple Cases with Multiple CLINs per Case & Multiple Cases per CLIN on a Pallet

```
ST^856^0001
BSN^00^DIS0001^20040720^1130^^AS
HL^1^^V^1
HL^2^1^S^1
HL^3^2^I^1
  LIN^0001^VP^ABC
  SN1^^4^EA
HL^4^3^D^0
SLN^1^^O^1^EA^ . . . ^D
  REF^U3^00001^D0648100001
  REF^U3^00002^D0648100002
  REF^U3^00003^D0648100003
  REF^U3^00004^D0648100004
HL^5^2^I^1
  LIN^0002^VP^DEF
  SN1^^4^EA
HL^6^5^D^0
  SLN^1^^O^1^EA^ . . . ^D
  REF^U3^00005^D0648100005
  REF^U3^00006^D0648100006
  REF^U3^00007^D0648100007
  REF^U3^00008^D0648100008
HL^7^2^I^1
  LIN^0003^VP^GHI
  SN1^^2^EA
HL^8^7^D^0
  SLN^1^^O^1^EA^ . . . ^D
  REF^U3^00009^D0648100009
  REF^U3^00010^D06481000010
HL^9^2^I^1
  LIN^0004^VP^JKL
  SN1^^2^EA
HL^10^9^D^0
  SLN^1^^O^1^EA^ . . . ^D
  REF^U3^00011^D06481000011
  REF^U3^00012^D06481000012
```



Web Screen Shots for Shipment Packing and RFID Tag Data Entry

rk Flow Version 3.0.7 - Microsoft Internet Explorer

Favorites Tools Help

Search Favorites

bulldog.caci-op.com:2443/index.html Go

Wide Area Workflow

Header | Addresses | Mark For | Comments | Line Item | Pack

Line Item Details:

At least one Line Item is required.

Item No.	Stock Part No.	Type	Qty. Shipped	Unit	Unit Price	Amount	UID	Actions
0001	WIDGETS	MG	1	EA	$3,000	$3,000.00	Y	
0002	MASKS	MG	20	EA	$50	$1,000.00	N	
0003	BOOTS	CL	20	EA	$20	$400.00	N	
0004	nsn0456783450	FS	1	EA	$4,000	$4,000.00	Y	

Page Help

UPON COMPLETION OF WORK IN THIS AREA, CLICK ON ANOTHER TAB FOR FURTHER ACTION OR ON THE HEADER TAB TO SUBMIT.

Select Pack Later or Pack CLIN

For Packing, CLIN List Appears

Wide Area Workflow

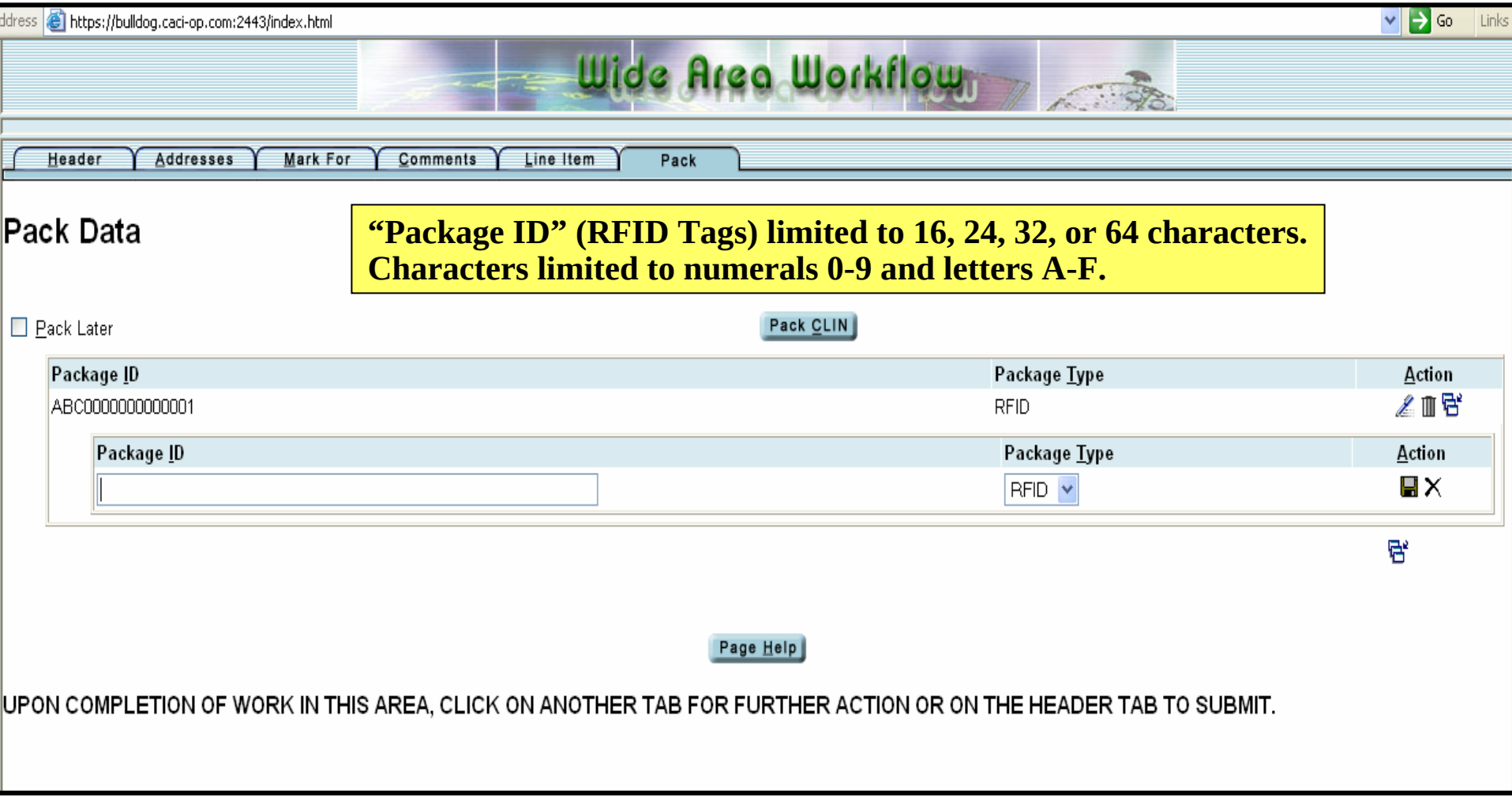
CLIN/SLIN Data

* = Required Fields

Item No.	Stock Part No.	UID	Qty. Shipped	Total Qty. Packed	Difference	Actions
0001	WIDGETS	Y	1	0	1	
0002	MASKS	N	20	0	20	
0003	BOOTS	N	20	0	20	
0004	nsn0456783450	Y	1	0	1	

Continue | Page Help

Setting up Shipping Box/Crate Structure



"Package ID" (RFID Tags) limited to 16, 24, 32, or 64 characters. Characters limited to numerals 0-9 and letters A-F.

Packing into Boxes

Wide Area Workflow

CLIN/SLIN Data

* = Required Fields

Item No.	Stock Part No.	UID	Qty. Shipped	Total Qty. Packed	Difference	Actions
0001	WIDGETS	Y	1	0	1	

Package ID- Type	Quantity Packed	Actions
ABC0000000000001 - RFID	1	

ABC0000000000001 - RFID
ABC0000000000002 - RFID
ABC0000000000003 - RFID

Pack All UIDs Unpack All UI

UID	Pack
WIDGETS59211	☑

Item No.	Stock Part No.	UID	Qty. Shipped	Total Qty. Packed	Difference	Actions
0002	MASKS	N	20	0	20	

RFID Tag Listing by CLIN

Wide Area Workflow

CLIN/SLIN Data

* = Required Fields

Item No.	Stock Part No.	UID	Qty. Shipped	Total Qty. Packed	Difference	Actions
0001	WIDGETS	Y	1	1	0	

Package ID	Package Type	Quantity Packed	Actions
ABC0000000000001	RFID	1	

UID Number
WIDGETS59211

Item No.	Stock Part No.	UID	Qty. Shipped	Total Qty. Packed	Difference	Actions
0002	MASKS	N	20	20	0	

Package ID	Package Type	Quantity Packed	Actions
ABC0000000000002	RFID	10	

Package ID	Package Type	Quantity Packed	Actions
ABC0000000000003	RFID	10	

CLIN Listing by RFID Tag

Pack Later

Pack CLIN

Package ID	Package Type	Action
ABC0000000000001	RFID	

CLIN	Quantity
0001	1

UID Number
WIDGETS59211

Package ID	Package Type	Action
ABC0000000000002	RFID	

CLIN	Quantity
0002	10

Package ID	Package Type	Action
ABC0000000000003	RFID	

CLIN	Quantity
0002	10

CLIN	Quantity
0003	20

CLIN	Quantity
0004	1

UID Number
A/02384798YF

DoD Useful Info / Data

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  - **http://www.dodait.com** **(DOD AIT Info)**
  - **http://www.wawftraining.com** **(WAWF Web-Based Training)**
  - **https://wawftraining.eb.mil** **(WAWF Practice/Hands-on Site)**
  - **https://wawf.eb.mil** **(WAWF Production Site)**