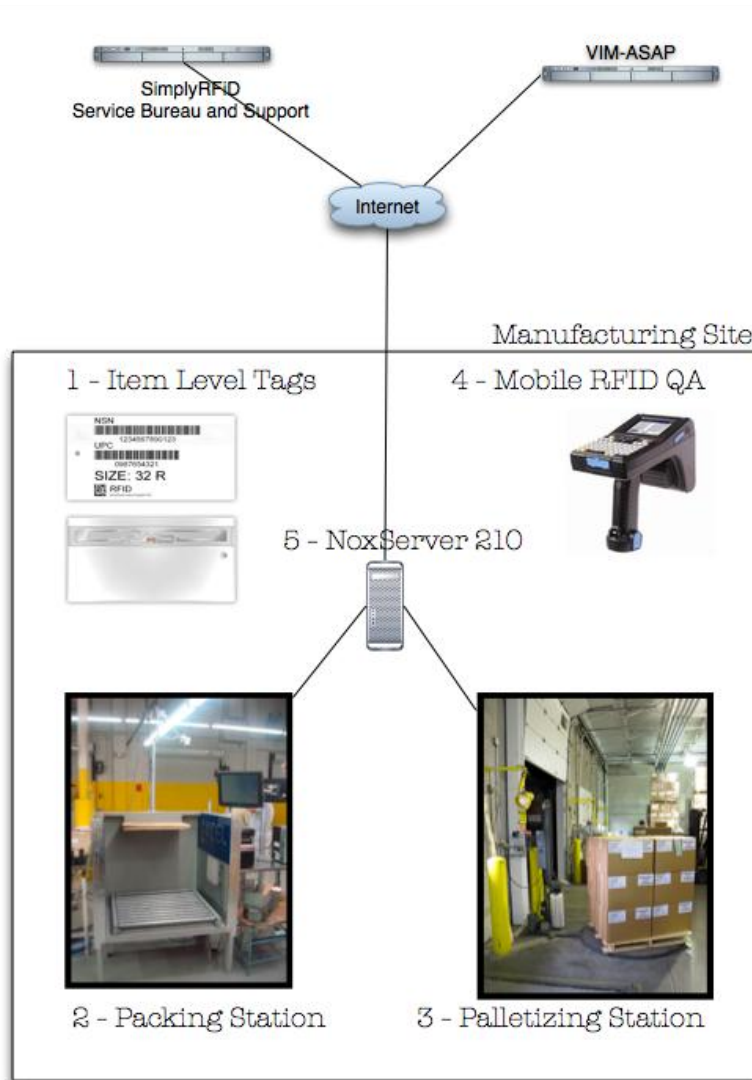


## The Nox for DoD System

Every Nox for DoD install contains seven key components: 1) Item Level Tag Production, 2) Case Packing



Station, 3) Palletizing Station, 4) Handheld RFID for QA and exceptions, 5) a NoxATA (Asset Tracking Appliance) Enterprise Edition or NoxATA Online Edition, 6) Installation, and 7) Legendary Support.

These options may be reconfigured and ordered in a few different configurations and they are described below.

## Feature Matrix

	Pro-Tags Pre- programmed	Nox for DoD Online Edition	Nox for DoD Enterprise Edition
<b>CONTRACT SYSTEM</b>			
VIM-ASAP RFID Upload	X	X	X
VIM-ASAP Full Contract Data Download		X	X
WAWF RFID Upload	X	X	X
WAWF Full Contract Data Download		Planned	Planned
Real time Contract Pack Statistics		X	X
<b>LABEL FORMATS</b>			
Item Level RFID Tags	X	X	X
Case Level RFID Tags	X	X	X
Pallet Level RFID Tags	X	X	X
MSL with RFID	X	X	X
MSL without RFID	X	X	X
Unit Pack With RFID	X	X	X
Unit Pack Without RFID	X	X	X
UID	X	Planned	Planned
Custom Label Formats	Custom Setup	Custom Setup	Custom Setup
<b>FEATURES</b>			
Track outstanding (unused) Item Level Tags		X	X
Auto-calculate Unit Pack Weights based on carton contents items		X	X
Stop Overpacks		X	X
Automatically mark boxes as SHORT		X	X
Prevent over-shipments		X	X
Track Quantity Shipped		X	X
Report and stop multiple CLIN/NSN in one Case		X	X
Pack To Inventory		X	X
Palletize From Inventory		X	X
Automated Item-to-Case RFID Association		X	X
Automated Case-to-Pallet RFID Association		X	X

	Pro-Tags Pre- programmed	Nox for DoD Online Edition	Nox for DoD Enterprise Edition
Fault Tolerant System	X	X	X
Local High-Speed Server		-	X
Fully-managed solution	X	X	-
Support Multiple CAGE Codes	X	-	-
Support Shipping One CAGE and printing/fulfillment for other CAGES (Final Shipper)	-	X	X
Support for NoxVault Handheld for QA		X	X
Integrate Video for Quality and Theft Control		-	X
<b>ITEM-to-CASE Association</b>			
Handheld Support with Barcode (NoxVault)		X	X
Handheld Support with RFID (NoxVault)		X	X
Conveyor Support		-	X
Pack Station Support		X	X
<b>CASE-to-PALLET association</b>			
Handheld Support with Barcode (NoxVault)		X	X
Handheld Support with RFID (NoxVault)		X	X
Stretch-Wrap RFID Palletizing		-	X
<b>PRINTING</b>			
Printer	N/A	Local	Local
Number of printers	N/A	Unlimited	Unlimited
Custom Label Formats	Custom Setup	Custom Setup	Custom Setup
<b>SPEED</b>			
Throughput as configured (estimated)	Next-Day	900 items/hour	1,800 items/hour
Maximum throughput with additional hardware	N/A	1,800 items/hour	Unlimited
Operating System	Web Browser	Web Browser	Web Browser

## 1- Item Level RFID Tag Production

Item Level Tagging is done using a high-capacity Item-Level RFID printer. This produces about 50 RFID tags per minute and can run continuously. Nox sends print jobs to this printer and tracks every tag produced by NSN and ensures each tag is used so you can track usage/loss and overall print job status. We recommend an in-house item-level RFID printer for any company shipping over 10,000 items per year.



## 2- Item-to-Case RFID

### Packing Station / Pack Table

The Nox Pack Station includes a fanless touchscreen PC for operator input. The touchscreen is designed for factory / industrial operation and can tolerate up to 104F room temperature. It is also wall-mounted to save space. We include a fixed RFID reader and an optional RFID printer for case-RFID-label printing. This integrated approach is the most simple solution for quickly adding RFID to every shipment.

The Pack Station and Pack Table average 3-4 cases per minute in through-put -- depending on how fast you load cases into the RFID scanning area. The actual case-scan time is under 2 seconds.

#### Options

**RFID Printer for case-level:** For high volume (10,000+ items per month) we highly recommend a dedicated 4"x6" Case RFID Printer. Without this, your item-level RFID printer will be re-loaded with 4"x6" Case RFID labels for integration.



**Pack Table:** Our latest design allows you to pack straight on a table. This simplifies the packing environment by mounting the RFID reader under a table for a more controlled RFID tagging environment. This also helps you use existing tables/equipment without building new RFID units. The pack table also works with a complete audio-mode and larger fonts for people who are blind or visually impaired.

#### A video of our talking pack-table:

Items and Cases:

[http://www.SimplyRFiD.com/pr/partner\\_files/videos/NIB-ItemPack.MOV](http://www.SimplyRFiD.com/pr/partner_files/videos/NIB-ItemPack.MOV)

[http://www.SimplyRFiD.com/pr/partner\\_files/videos/NIB-CasePack.MOV](http://www.SimplyRFiD.com/pr/partner_files/videos/NIB-CasePack.MOV)

#### Overview video of Nox for DoD technology:

[http://www.SimplyRFiD.com/pr/partner\\_files/videos/NoxForDoD.m4v](http://www.SimplyRFiD.com/pr/partner_files/videos/NoxForDoD.m4v)

## Nox Conveyor

For maximum throughput, the Nox Conveyor is the best choice. The Nox Conveyor includes a fanless touchscreen PC for operator input. The touchscreen is designed for factory / industrial operation and can tolerate up to 104F room temperature. It is also wall or pole mounted to save space. We include two fixed RFID readers and secondary slave RFID antennas, one RFID printer for case-RFID-label printing and a secondary printer for exception reporting.

The conveyor runs continuously at 120 feet per minute and automatically scans item tags, produces the case RFID label, and prints an exception label with any corrective actions noted for non-compliant cases.

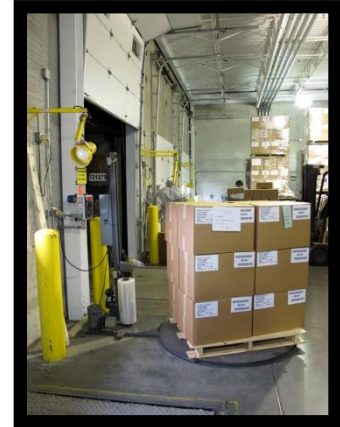
The conveyor can process one case every 12 seconds -- continuously. This speed could be increased to one case every 6 seconds with a 240 foot/minute conveyor. The Nox Conveyor can be connected to an indexing (spacing) conveyor to keep new boxes releasing automatically.



### 3- Case-to-Pallet RFID

#### Stretch Wrap Palletizer

This solution adds a touchscreen terminal and RFID readers to automatically scan the pallet as it spins. This will read all of the RFID tags on the pallet and update the pallet tag to the CASE tags. This solution can work with pre-encoded RFID pallet tags or with a local printer to produce the Pallet RFID Tag.



#### Handheld RFID & Barcode Scanner

This solution uses a handheld RFID scanner to manually scan the pallet in an isolated area (where no other CASE RFID tags would be easily cross-read) or via barcode in dense areas. This solution can work with pre-encoded RFID pallet tags or with a local printer to produce the Pallet RFID Tag.

#### Fixed RFID Pull Thru

This solution uses a pallet jack to push the pallet into an RFID scan zone. This solution works great if you don't have a stretch wrap spinner.



*The stretch-wrap palletizer is the most efficient for large-scale operations where stretch wrap machines are used. However, the Handheld RFID Scanner is a good QA tool to have and saves some operating costs if the quantity of pallets is low.*

#### Options:

**RFID Printer:** If your Case-level RFID printer is near your pallet station, you can use it for producing your pallet RFID tags. However, if case and pallet operations are a long distance, you may want an additional RFID printer nearby.

## 4- Handheld Barcode and RFID mobile computer

The NoxVault wifi RFID/Barcode handheld can be used to create case-to-pallet tag associations (and item-to-case). The mobile computer allows you to work-and-move without returning to a computer to see if the tag ID's are all scanned. The handheld is invaluable for fast QAR inspections, makes QARs happy which can save you from a grumpy QAR. The handheld is also great for locating items on the shipping floor.



The NoxVault handheld can:

- Pack items in a case
- Pack cases on a pallet
- Move items from one case to another
- Move cases from one pallet to another
- Remove items from a case
- Remove cases from a pallet
- Break a case (remove all items from case)
- Break a pallet (remove all cases from a pallet)
- Validate a case (ensure all items are present in the box)
- Locate an item / nsn

All of these features work with RFID and Barcode, depending on what you need in your environment. The NoxVault is 100% integrated with Nox so all movements are updated in real-time in Nox. Additionally, the handheld can trigger a case or pallet label to print when a new case or pallet is built.

*We recommend a handheld for spot packing, palletizing, and case-moves.*

## 5- Nox for DoD Software and Asset Tracking Appliance (NoxATA)

SimplyRFiD developed the Nox Core RFID software and continues to develop this solution for tracking RFID items around factories and offices. Nox for DoD integrates DoD shipping information with RFID tags and video. Nox manages all your data, printers, packing and palletizing stations and uploads / downloads from VIM-ASAP for CAGE codes and vendors.

We recommend a local NoxATA appliance for high-volume installations (more than 500,000 items per year).

## 6- Installation

### Turnkey

We will do an impeccable job of installing your solution.

## **Self Install**

We'll support your own installation and offer a training class at our facility to teach you how to do your own installs.

## **7- Legendary Support and Products**

We are committed to providing unbelievably great customer support. We help nearly 3,000 customers and have never lost a customer due to low-quality support or products. We are all committed to making the best products that we are proud of and will support until the end.

## Installation Timeframe

We certify we will complete the installation within 60 days from written award.

Our typical schedule:

### Timeline –8 Weeks

Week 1: Receive PO / Confirm Order and Dates / Order Equipment

Week 2: Certify equipment for installation

Week 3: Book Travel

Week 5: Ship equipment to site

Week 7: Arrive on site and deploy system -- 100% functional typically by day two.

Week 8: On-site support to ensure system continues to run smoothly and work with team to answer questions / make it easy. Continue integration with existing systems.

*Detail for installation weeks:*

Week 7:

Day 1: Unpack equipment, and ensure it all works in its new location. (Fits, cables, power, ethernet, tables).

Day 2: Install equipment and begin testing for proper operation.

Day 3: System 100% functional. Work on integration with existing systems.

Day 4: Begin fulfilling delivery orders and **training** staff. This includes quick reference cards for each workstation and a training guide relevant to each process (Nox Shipments, VIM-ASAP upload/download, Item Level production, or Case/Pallet shipments)

Day 5: Finalize system.

Day 6: (weekend) Develop any code needed for integration

Day 7: (weekend) Develop any code needed for integration

Week 8:

Day 1: Deploy new integrations with existing system

Day 2: **Certify** integrated environment and continue testing, monitoring and supporting

Day 3: Testing and **support**

Day 4: Testing and **support**

Day 5: Acceptance.

## Payment Terms

50% on acceptance of purchase order, Net 30 on final delivery.

## RFID Tags

### Item Level RFID Hang Tag

SimplyRFiD TI-2 Item Level Garment RFID tag.



#### Item Tag Specifics:

- 4"x2" with a black sense cut-mark and perforated.
- 1,500 Tags per roll
- Pre-hole punched
- Approximately 9mil thick with inlay. (Strong, substantial material) with a plastic/mylar backing for extra strength.
- Ready-to-apply: No folding.
- Approximation of finished product depicted

A standard 4"x2" label or 4"x1" labels can also be used if the item is not a garment.

## Case Level RFID with integrated Unit Pack

### SimplyRFID TS-2 4"x6" general purpose RFID tag



For maximum efficiency, producing two-tags-in-one keeps all of your data together, reduces data entry error potential, and saves label cost. We will see how much label integration we can perform for your environment.

#### Case RFID with integrated Unit Pack Tag Specifics:

- 4"x6" paper, pressure sensitive adhesive label
- 950 per roll.
- Approximation of finished product depicted.
- *Your Company Branding on bottom of tag!*

## Pallet Level RFID

We propose using a 4"x6" Pallet level RFID tag using the standard TS-2 label stock. Depicted is our TX-1 synthetic traveller which is also an option if you would like an easy way to maintain a paper-based backup of your shipments.

### Pallet RFID Specifics:

Identical raw stock to the Case level tag  
Approximation of finished product depicted (bottom).  
Custom information can be added. Pallets are serialized and numbered for convenience.



## Appendix

### Nox for DoD Manual

The Nox system is a complete system currently deployed and in operation. The complete manual is here for review. We are constantly improving the capabilities so this represents our latest manual revision and may not show every feature.

### References

**Deployed, working, tested, and debugged DoD Item-Level Installations:**

1. Warmkraft – Two conveyor systems.
2. Excel Manufacturing – Pack Table system
3. Propper International – Conveyor System
4. Belleville Shoes – Pack Table system
5. BISM – Pack Tables / System for workers that are blind
6. ABVI – Pack Tables / System for workers that are blind
7. El Paso Lighthouse – Pack Tables / *System for workers that are blind*
8. WS-IFB – Pack Tables / System for workers that are blind

**Reference Points of Contact:**

- Jose Ortega, Vice President, Excel Manufacturing, 915-276-9150  
Pack Table System – First item level installation.
- Mike Sebach, General Manager, BISM, 410-749-1366  
System for workers that are blind / visually impaired.
- Mary Johnson, Contracts Administrator, NIB, 571-480-1224  
Oversight of the National Industries for the Blind DoD RFID tagging RFP/award