

# RFID

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# RFID Inventory Management

## Bonita Springs Fire-Rescue

Deputy Chief Richard Scott



# The District

- 7200 emergency calls per year
- 7 locations: 400 items each
- 9 apparatus: Fire Engines/Rescue/Boat  
Advanced Life Support units carrying over  
160 items
- Master Supply room at HQ: 2500 items
- Fixed Assets \$750+ in value: 1500 items



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# Challenges

## Inventory

- Lack of visibility
- Manual counting/user errors
- Hoarding
- Decrease inventory waste & time spent
- Expiration dates: **Penalties**



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# The Solution: RFID Technology



- Starting point
  - RFID partner & timeline
- Organizing
- Packaging
- Labeling
- Tagging
- Implementing





# Fire Station #6



- Real-Time
- Smart shelves
- Passive tags
- Organization



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# Organization



Choose packaging by quantity, that fits your need

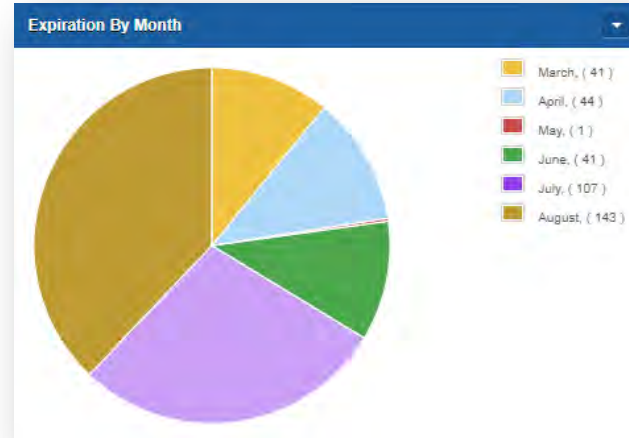
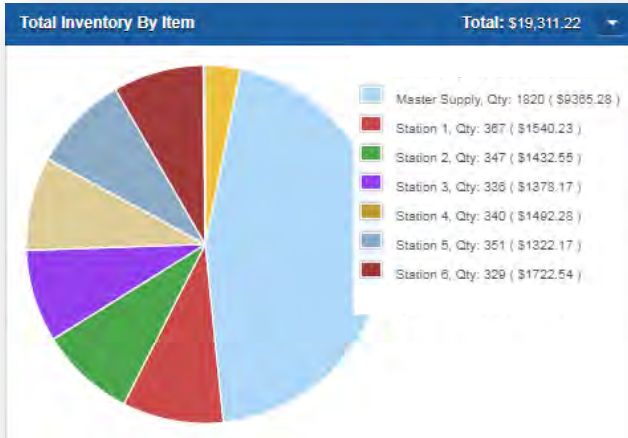


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# The Software



ST1 - Med			
<p><b>B0116785</b></p> <p>Airway - BVM - Adult                      Assigned Location : ST1 - Med                      Current Location : ST1 - Med                      Last Seen : 2018-01-29 12:14:19 PM                      Status : MISSING</p>	<p><b>D0008607</b></p> <p>Airway - BVM - Adult                      Assigned Location : ST1 - Med                      Current Location : ST1 - Med                      Last Seen : 2018-03-22 8:51:56 AM                      Status : OK</p>	<p><b>B0117526</b></p> <p>Airway - BVM - Adult                      Assigned Location : ST1 - Med                      Current Location : ST1 - Med                      Last Seen : 2018-03-22 8:52:13 AM                      Status : OK</p>	<p><b>B0117531</b></p> <p>Airway - BVM - Adult                      Assigned Location : ST1 - Med                      Current Location : ST1 - Med                      Last Seen : 2018-02-14 9:09:02 AM                      Status : MISSING</p>



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# The Software

## Pick Ticket for ST6 - Med

Ticket Number: T-20180327-1010

Created by Natalie on: 2018-03-27 08:46:42

Email

Print

Save

Finalize Ticket

Part Number	Description	Par	Level	Count	Quantity Needed	Pick Location(s)	Quantity Picked
Serialized Consumables							
11130 EMP	Airway - ETT 3.0	1	0	1	1	Master Supply	1
Quadmed #EDI-321712	IV - Admin. Set (Drip)	10	9	1	1	Master Supply	1
VID9018-VC-005 LEE	IV - EZ-IO Needle - Pink (Pediatric)	1	0	1	1		1
Leesar# 2016364	IV - J-Loops (bag 5)	4	3	1	1	Master Supply	1
Leesar# 2033500 \$5.31	Medication - Epinephrine 1:10,000	5	3	2	2	Master Supply	2
MCK# 226057	Misc - Mask - Face/Fluid Shield (box)	1	0	1	1	Master Supply	1
Zoll 8900-0701	Zoll - Electrodes - Adult	4	3	1	1	Master Supply	1

### Expired (red) and soon to be expired (yellow) items.

B0113717	Medication - Atropine Sulfate 1mg	2018-02-28	2018-02-25 16:59:52
B0114968	IV - 100 ml Dextrose 5% (D5W)	2018-03-31	2018-03-06 13:52:34
B0114965	IV - 100 ml Dextrose 5% (D5W)	2018-03-31	2018-03-06 13:52:38
B0113087	Medication - Sodium Bicarb 4.2%	2018-04-01	2018-03-25 11:51:13
B0113086	Medication - Sodium Bicarb 4.2%	2018-04-01	2018-03-25 11:51:13



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# Next Phase: Fixed Assets



- 1500 items over \$750 in value
- RFID tags
  - Buildings
  - Office Equipment
  - Machinery and Equipment (70%)
  - Vehicles
- Annual Inventory



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# Fixed Assets



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# Summary: Benefits and ROI

## ROI: First year

- Enables firefighters to concentrate on primary mission
- Increased visibility of all fire stations
- Reduces chance of expired medications
- 30% savings per year = \$\$\$
- Decrease time & personnel needed = \$\$



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**THANK YOU**

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