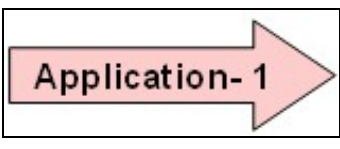
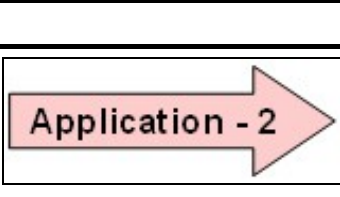
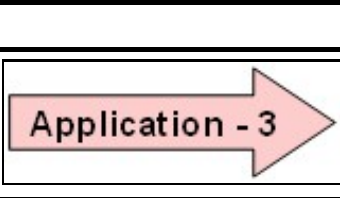
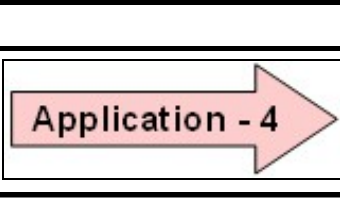

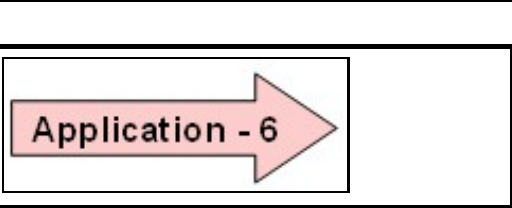
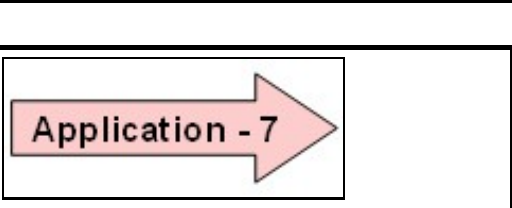
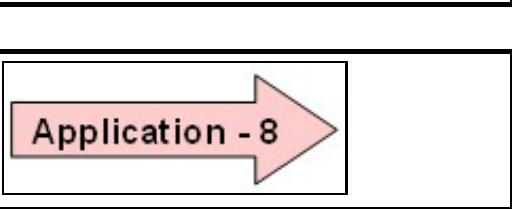

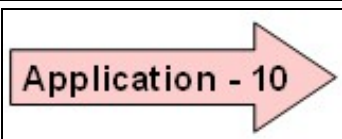
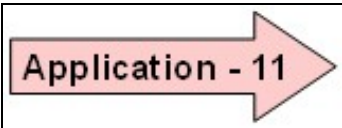

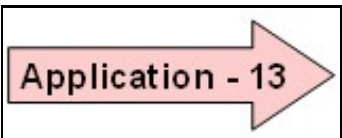


## Next Page

### Main applications of RFID along with various stages, software applications and hardware involved

	LOGISTICS CHAIN MANAGEMENT SYSTEM IN FOOD AND PHARMA INDUSTRY.	
Place of events	Process involved	Type of S/W & Hardware
<ol style="list-style-type: none"> <li>1. Airlines and shipping companies</li> <li>2. Ancillary Suppliers,</li> <li>3. Cargo Community Networks [CCN] which are made up of some of the other participants,</li> <li>4. Customs and Quarantine authorities,</li> <li>5. Freight forwarders,</li> <li>6. Fresh produce exporters,</li> <li>7. Fresh produce importers,</li> <li>8. Government agencies such as freight export information providers,</li> <li>9. Packer/cool store,</li> <li>10. Transporters including road haulers and carriers in the importing country.</li> </ol>	<ol style="list-style-type: none"> <li>1. Consignment</li> <li>2. Supplier</li> <li>3. Transport and</li> <li>4. Storage</li> </ol>	<ol style="list-style-type: none"> <li>1. Central database</li> <li>2. A communication secured network</li> <li>3. Internet with three interactive databases.</li> <li>4. Database and applications (data in a range of formats (maxima, minima, averages, graphical etc)</li> <li>5. Passive tag - RW</li> </ol>
	GLOBAL SUPPLY CHAIN OF SEMICONDUCTORS.	
Place of events	Process involved	Type of S/W & Hardware
<ol style="list-style-type: none"> <li>1. International suppliers</li> <li>2. Airport</li> <li>3. Customs agency</li> <li>4. Distributors</li> <li>5. Shipping dock</li> <li>6. Manufacturers</li> </ol>	<ol style="list-style-type: none"> <li>1. Transport</li> <li>2. Inventory</li> <li>3. Shipping</li> <li>4. Origin of port</li> <li>5. Transshipment port</li> <li>6. Destination port and</li> <li>7. A consignee</li> </ol>	<ol style="list-style-type: none"> <li>1. Program instructions can be in any appropriate form, such as source code, object code, or scripting code.</li> <li>2. Computing device: Enterprise servers, Application servers, point of sale terminal etc..</li> <li>3. Passive tag - RW</li> </ol>
	SUPPLY CHAIN MANAGEMENT OF HIGH-VALUE ELECTRONIC ITEMS & PHARMACEUTICALS.	
Place of events	Process involved	Type of S/W & Hardware
<ol style="list-style-type: none"> <li>1. Warehouse</li> <li>2. Truck</li> <li>3. Freight container</li> <li>4. Sea vessel</li> <li>5. Distribution center</li> </ol>	<ol style="list-style-type: none"> <li>1. Shipping</li> <li>2. Recipient</li> </ol>	<ol style="list-style-type: none"> <li>1. Central data processor is operable for communication with an internet router.</li> <li>2. Low frequency tag ? 300 KHz</li> </ol>
	TRACKING SYSTEM	
Place of events	Process involved	Type of S/W & Hardware
<ol style="list-style-type: none"> <li>1. Assembly line</li> <li>2. Warehouse</li> </ol>	<ol style="list-style-type: none"> <li>1. Package handling</li> <li>2. Baggage handling</li> <li>3. Parts assembly</li> <li>4. Navigation through marked waypoints</li> <li>5. Item retrieval and packaging</li> <li>6. Inventory control</li> </ol>	<ol style="list-style-type: none"> <li>1. Business applications (cause sorting and loading instructions to appear on the items so that wearer?s of the data acquisition and display device do not have to read each item?s label.)</li> <li>2. Passive tag</li> </ol>

	SUPPLY CHAIN MANAGEMENT.	
Place of events	Process involved	Type of S/W & Hardware
<ol style="list-style-type: none"> <li>1. Storage facility</li> <li>2. Shipping container</li> <li>3. Shipping vessel</li> <li>4. Airport</li> <li>5. Shipyard</li> <li>6. Military heavy assets</li> <li>7. Warehouse</li> <li>8. Factory</li> </ol>	<ol style="list-style-type: none"> <li>1. Shipping goods</li> <li>2. Transportation (truck)</li> <li>3. Retail or wholesale locations</li> <li>4. Train depot</li> <li>5. Inventory</li> <li>6. Delivery</li> <li>7. Outbound transit</li> <li>8. Inbound transit</li> <li>9. Advanced shipping notification</li> </ol>	<ol style="list-style-type: none"> <li>1. Firmware and software to modulate and demodulate the data for the particular protocol</li> <li>2. Various communication algorithms and command response algorithms</li> <li>3. UPS Supply Chain Solutions</li> <li>4. Passive tag ? RW ? Low freq. or 900 MGz</li> </ol>
	INVENTORY ALONG A DISTRIBUTION CHAIN	
Place of events	Process involved	Type of S/W & Hardware
<ol style="list-style-type: none"> <li>1. Distribution</li> <li>2. Storing</li> <li>3. Manufacturer (warehouse)</li> </ol>	<ol style="list-style-type: none"> <li>1. Inventory</li> <li>2. Monitoring</li> <li>3. Transportation</li> <li>4. Tracking</li> <li>5. Retailer or consumer</li> <li>6. Wholesaler</li> </ol>	<ol style="list-style-type: none"> <li>1. Anti-collision software</li> <li>2. Program for correlating the environmental condition data with the location data.</li> <li>3. The data reporting medium is a computer display, a LAN, or a web page.</li> <li>4. Active or passive tag- RW</li> </ol>
	ASSET AND MATERIALS MANAGEMENT SYSTEM.	
Place of events	Process involved	Type of S/W & Hardware
<ol style="list-style-type: none"> <li>1. Lay down yard</li> <li>2. Warehouse</li> <li>3. Asset storage</li> </ol>	<ol style="list-style-type: none"> <li>1. Inventory</li> <li>2. Shipping</li> <li>3. Asset management</li> <li>4. Tracking asset material <ol style="list-style-type: none"> <li>a. Material identification information</li> <li>b. Description of the material</li> <li>c. Purchasing details</li> <li>d. Storage and maintenance details</li> <li>e. Material location and</li> <li>f. Destination information.</li> </ol> </li> <li>5. Receiving</li> </ol>	<ol style="list-style-type: none"> <li>1. Software applications (Web application" TagDetect") files may be in HTML format, XML or other formats.</li> <li>2. Software applications supporting a client-server system or n-tiered computer system.</li> <li>3. Internet and Central data repository</li> <li>4. Active or passive tag - RW</li> </ol>
	POINT-OF-SALE AND POINT-OF-DELIVERY AND/OR DISTRIBUTION.	
Place of events	Process involved	Type of S/W & Hardware
<ol style="list-style-type: none"> <li>1. Distribution</li> <li>2. Micro-warehouse</li> <li>3. Manufacturing</li> <li>4. Marketing</li> <li>5. Customer relation management</li> </ol>	<ol style="list-style-type: none"> <li>1. Point of sale</li> <li>2. Delivery</li> <li>3. Inventory</li> <li>4. Billing</li> </ol>	<ol style="list-style-type: none"> <li>1. MW (Micro-warehouse) enterprise application</li> <li>2. XML middleware such as Biz Talk.RTM. software.</li> <li>3. ERP system, web ordering system</li> <li>4. Passive tag ? RW - freq. - 2.45 GHz</li> </ol>

		REUSABLE TRANSPORTATION MEANS.	
Place of events		Process involved	Type of S/W & Hardware
1. Distribution		1. Tracking: a. Receptacle or b. Container or c. Packing or d. Pallet or e. Trolley car. 2. Wholesale distributor 3. Chain sales store	1. No Software application 2. Passive tag - RW
		MATERIALS HANDLING	
Place of events		Process involved	Type of S/W & Hardware
1. Express mail 2. Storage		1. Transport 2. Tracking 3. Delivery	Software modules may include: 1. A database module configured to store data on the storage medium. 2. A decision module configured to determine the presence or absence of stale mail based on information provided by the database module. 3. Passive or active tag ? read only
		COMMERCIAL ENTERPRISE (PERSONNEL AND ASSET RETENTION SYSTEM (PARS))	
Place of events		Process involved	Type of S/W & Hardware
1. Industrial sites 2. Power plants 3. Refineries and 4. Ports of entry		1. Tracking 2. Monitoring 3. Inventory 4. Security	1. Company databases are: a. Material management systems b. Procurement systems and c. Time and attendance systems. 2. Applications programming 3. Information access through standard formats such as XML and HTML. 4. Passive tag - RW
		TRACKING CARGO THROUGH CUSTOMS.	
Place of events		Process involved	Type of S/W & Hardware
1. Airlines 2. Distributor		1. Shipping 2. Receiving 3. Tracking	1. Central server runs a program which acts as a central host for processing the information communicated between the different computers. 2. Passive tag - RW
		SUPPLY CHAIN MANAGEMENT IN BEEF INDUSTRY.	
Place of events		Process involved	Type of S/W & Hardware
1. Factory		1. Identifying 2. Tracking	1. BeefLink.TM. Software (is a collection of components written primarily in VISUAL BASIC® 6.0 programming language and

3. Monitoring  
4. Livestock production  
and processing cycle  
5. Inventory

ACTIVE X® programming methodologies.)  
2. Inventory-type report can easily be generated.  
3. MicroSoft Excel  
4. Passive tag- read only