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FORTUNE **100**



Global technology major deploys at its India locations, a RFID-based ASSET TRACKING SYSTEM

Efficient location-wise organization and tracking of assets

Organization and matching of accessories with main devices in a parent-child relationship

Easy asset search and efficient on-site asset management

Missing alerts and dashboard view of real-time status



INSIDE: Key Requirements Solution Implementation Working Benefits Links

TECHNOLOGY

Solution: EPC Gen2 compliant asset tracking solution

Tag Type:

Metallica[™] UHF Passive µMetallica[™] UHF Passive

Reader/Antenna:

Xtenna Proximity™ HandyScanna™ Porta™

Method: Single Tracking via hand-held and portal Reader/Antennas

Integration Platform:

RFID Middleware: Xtenna[™] WebToolkit Xtenna[™] Studio Application: Essen RFID's Asset Tracking System Database: SQL Server 2005 Exp. ed. ERP: Oracle

Tag Manufacturer/Supplier: Essen RFID, with US based chip inlay

Reader/Antenna Manufacturer: Essen RFID, with US based module

Systems Integrator: Essen RFID

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KEY REQUIREMENTS:

The client is a global Fortune 100 company and a major player in the communications technology sector with a significant presence in India. It has a large number of IT assets that are portable across locations, that require efficient organization of distribution as well as monitoring. Since these assets are placed in different locations within the premises, they require prompt identification regarding location and availability. The company needed to efficiently track these large quantity of high value assets to prevent misplacement, enable instant search and effective deployment.

Main challenges in implementation:

- Proper organization of assets across various locations within the premises.
- Ensuring quick search of required asset amongst different types of assets at a particular location.
- Association of assets based on parts, components or accessories to larger assets in a parent-child relationship.
- Ensuring a quick match of components/accessories to their main devices.
- Checking the availability of every asset.
- Prevention of assets being misplaced or taken out of their assigned locations through missing asset alerts to the management.

SOLUTION:

Essen RFID provided the technology to efficiently track these assets through its RFID based Asset Tracking System. This system deploys a mobile-based application built into a hand-held RFID device to scan and search each asset. SQL Server is used as the backend database, with

integration to pre-existing Oracle asset data.

IMPLEMENTATION:

A METALLICATM RFID tag is affixed at each location within the premises. A μ METALLICATM RFID tag is attached to each asset or asset component/accessory that is to be tracked. The assets are registered into the system database using a Xtenna ProximityTM antenna-reader. A hand-held HandyScannaTM device containing a mobilebased application is used to scan the details of each asset



and then search its allocation and placement. The HandyScanna[™] is fully Wi-Fi enabled. Porta[™] RFID portal gate readers are also installed at critical gates from where assets are moved between multiple locations within the campus.

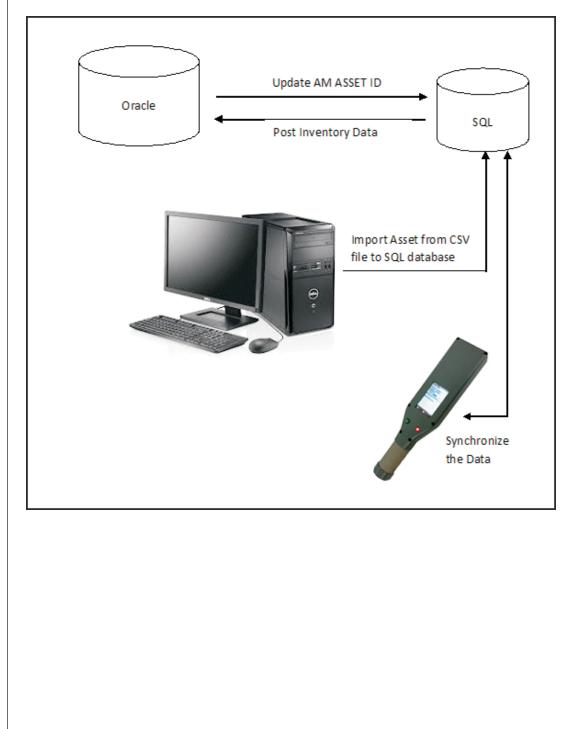






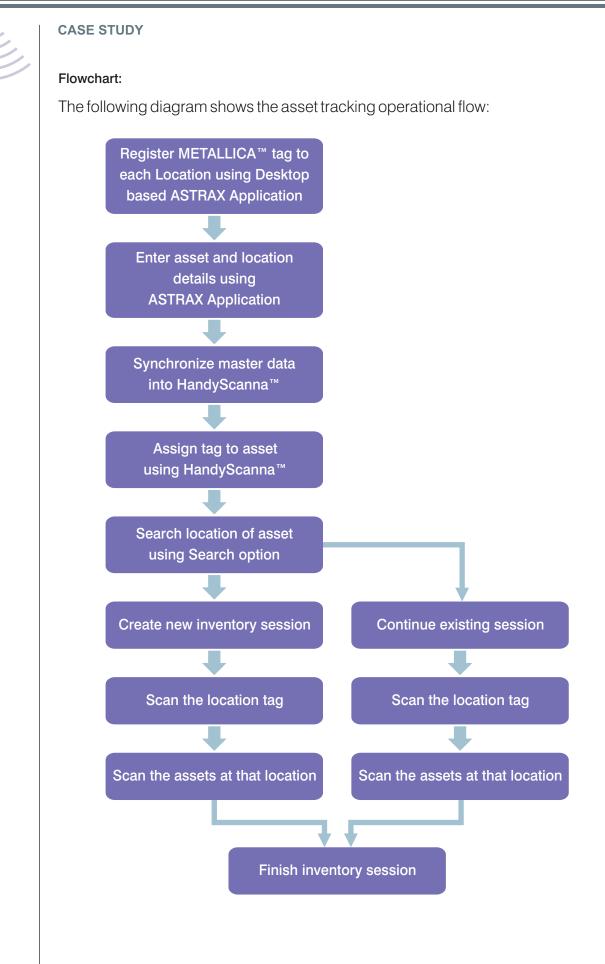
Operation Flow:

Even though the company already had an Asset Management (AM) system, RFID technology was introduced for tracking of assets in lesser time. The existing system uses Oracle, while the RFID system uses a SQL Server database. For maintaining the uniqueness of both systems, integration is done between the Oracle and SQL server database by importing AM Asset ID into the RFID system. After taking of inventory, the required inventory data is posted to the AM database.













WORKING:

Essen RFID's Asset Tracking software Astrax[™] is used for searching and tracking hardware and equipment within the company. The company has high value assets scattered in various locations, hence if any asset is tampered or misplaced then it is very difficult to locate. Therefore it is firstly needed to accurately register all assets and location and then scan the asset locations using the HandyScanna[™] hand-held device.

After scanning the all assets, the scanned asset data is sent to the server using the synchronization application. After synchronizing the data, the user can export the scanned inventory data.

ASTRAX has the following main functionality for asset tracking:

If any asset remains outside any location without permission, then an Alert will be generated for that asset.

The application emails weekly missing asset details with their last known locations to authorized persons, thus helping in further search of the assets.

Working Process:

The complete Astrax[™] application consists of the Desktop application, the HandyScanna[™] application and the Synchronization application.

Desktop Application:

This is further divided into different modules. These are:

RFID Settings

Masters

Dashboards

Admin Tasks

Alerts/Exception Management

Only an authorized user can log in to the Astrax[™] application.

The application has a left panel tree structure which has the menus that perform different tasks.





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CASE STUDY

RFID Settings:

Essen RFID's Porta[™] readers are used as the fixed readers for tracking assets. They are physically installed at various locations within the premises.

Location Group Master: Each location where the Porta[™] device is to be placed is defined here.

Actions	😽 Lo	cation Group Details in	grid view.				
Alerts / Exception Management		LOCATION_GROUP_II	D LOCATION_GROUP_CODE	LOCATION_GROUP_DESC	LOCATION_PARENT	LOCATION_GROUP_FLAG	LOCATION_GROUP_FIL
Alert Categories	·	2	G002	REGISTRATION		-1	10
- Alert Email Mapping		3	GATE1	GATE1		22	1
- 👷 Alert Viewer	Þ	4	GATE1A	GATE1A	GATE1	11	1
Asset Exception List		5	GATE1B	GATE1B	GATE1	22	1
BashBoard - Out Status		6	GATE2	GATE2			1
E DashBoard		7	GATE2A	GATE2A	GATE2	11	1
DashBoard OUT List	<						1
Inventory Transaction Post Inventory Data in AM DashboardImage Masters Saset Category / Type Asset Category / Type Asset Master Asset Master Sopartment Master	Ant Filt	enna ID : er Time:	GATE1 11 (in seconds) 4	♥ ♥			
Branch Master Add Sub Location User Management User Master User Master Master		Q Qk	🔀 <u>C</u> ancel 🔷 S	Jear 🔀 Export To Ex	cel		

Location Master: Here the IP address of each Porta[™] device with its location code and description is entered.

ions	😽 Location Details in gr	id view.				
	LOCATION_ID	LOCATION_CODE	LOCATION_NAME	LOCATION_DEVICE_IP	LOCATION_GROUP_ID	
rts / Exception Management Alert Categories	▶ 21	GATE2AL	GATE2AL	192.168.123.11	7	_
Alert Email Mapping	22	GATE2AR	GATE2AR	192.168.123.12	7	
Alert Viewer	23	GATE2BL	GATE2BL	192.168.123.13	8	
Asset Exception List	24	GATE2BR	GATE2BR	192,168,123,14	8	
shboards DashBoard - Out Status	1	L001	Registration Unit	192,168,123,147	2	
JashBoard - Out Status DashBoard DashBoard OUT List D Settings		2001	registration onic	1321100.123110		
ocation Master	🤲 Data Entry Form.					
ocation Group Master	Location Code :	GATE2AL				
RFID Readers BEV min Tasks	Location Desc :	GATE2AL				
Import Data Export Session Data Inventory Transaction	Device type :	GATE2A	*			
Post Inventory Data in AM	Device IP address :	192.168.123.11	~			
hboardImage ters Asset Category / Type Asset Location Master	System ID :	21				
Asset Master	<u>⊘</u> _k	Cancel	✓ <u>C</u> lear	🛃 Export To Excel		
epartment Master mployee Master						
Employee Master Branch Master						
dd Sub Location						
Management						
ser Master						
ble Master ble Mapping						
ore mapping owledgment Dashboard						
ts v						
P: 192.168.123.147						
P : 192.168.123.147 is						
nected						
	1 .					
¥	Location Master					



RFID Readers BEV: RFID Readers Bird's Eye View displays an overview of all readers and their locations, providing instant information regarding a particular reader's location and purpose.

ASTRAX TM Version:2.2.0. User:admin	14				Essen	Xtenna Stu
Actions						
Alerts / Exception Management	Summary					
	<i>4</i> 3		Birds Eye Vie	w of RFID Readers Placement		
- 😰 Alert Viewer	MAIN LOCATION	SUB LOCATION	READER NAME	READER IP	READER POSITION	DUPLICATE ELIMINATION FILTER IN SECS
- State Exception List	GATE2	GATE2A	GATE2AL	192.168.123.11	INSIDE	1
DashBoard - Out Status	GATE2	GATE2A	GATE2AR	192.168.123.12	INSIDE	1
	GATE2	GATE2B	GATE2BL	192.168.123.13	OUTSIDE	1
DashBoard OUT List	GATE2	GATE2B	GATE2BR	192.168.123.14	OUTSIDE	1
- PRFID Settings	GATE1	GATE1A	GATE1AL	192.168.123.91	INSIDE	1
Location Master	GATE1	GATE1A	GATE1AR	192.168.123.92	INSIDE	1
RFID Readers BEV	GATE1	GATE1B	GATE1BR	192.168.123.93	OUTSIDE	1
🚯 Admin Tasks	GATE1	GATE1B	GATE1BL	192.168.123.94	OUTSIDE	1
	G001	HANDYSCANNA	HANDYSCANNA1	911126050018721	INSIDE	10
Export Session Data Export Session Data Invertory Transaction Dest Invertory Data in AM DashboardImage Masters Asset Category / Type Asset Ca						

Masters:

These are as follows:

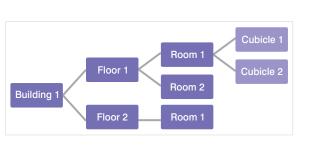
Asset Category/Type: The various asset categories are created here and entered in the database, e.g. laptops, and whether the asset type is moveable or immoveable.

ASTRAX TM Version:2.2.0 User:admin							ssen E	Xten	
Actions	😽 De	vice Details in grid	view.						
P Alerts / Exception Management	1	DEVICEID	DEVICETYPE	DEVICEMOVABLE	DEVICEDESC	CREATED_BY	CREATED_ON	MODIIFIED_BY	MODIIFIED_O
- 10 Alert Categories		1	Laptop - IBM	YES	Laptop - IBM	admin	05-09-2012 12:53 PM	admin	18-09-2012 3
- Alert Email Mapping	►	2	Mobile - Samsung	YES	Mobile - Samsung	admin	06-09-2012 12:37 PM	admin	18-09-2012 3
Alert Viewer Asset Exception List		3	iPad - WiFi	YES	iPad - WiFi	admin	18-09-2012 3:03 PM	admin	18-09-2012 3
		4	iPad - WiFi + 3G	YES	iPad - WiFi + 3G	admin	18-09-2012 3:03 PM	b	07-12-2013 3
DashBoard - Out Status		5	Samsung Net Book 10" A35	YES	Samsung Net Book 10" A35	admin	18-09-2012 3:04 PM	b	07-12-2013 5
- E DashBoard		6	Laptop - HP	YES	Laptop - HP	admin	18-09-2012 3:04 PM	admin	18-09-2012 3
DashBoard OUT List	<								3
PRFID Settings	🚓 Da	ita Entry Form.							
Location Master		Device Type	Mobile - Samsung						
RFID Readers BEV									
🚯 Admin Tasks		Device Descriptio	n Mobile - Samsung						
		Device Moveable	YES v						
Export Session Data		System ID	2						
Inventory Transaction Post Inventory Data in AM		-,	-						
- Dashboardimage		⊘ <u>O</u> k	Cancel	✓ Clear	Export To Excel				
Masters									
🗐 Asset Category / Type									
Asset Location Master									
- S Employee Master									
Branch Master									
Add Sub Location									
🕼 User Management									
- 26 Role Master									
- Acknowledgment Dashboard									
DeviceIP: 192.168.123.147									
Status Time: 15:29:38									
Device IP : 192.168.123.147 is									
Not Connected									
null									





Asset Location Master: Here the user creates a hierarchical logical representation for asset locations. He then affixes METALLICA[™] tags at each of those locations and assigns them to their respective locations in the database.

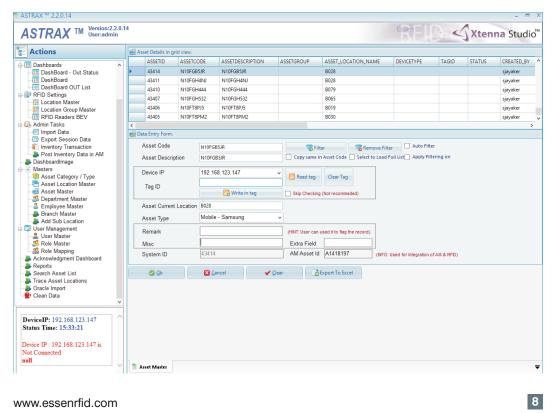


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STRAX TM Version:2.2.0.14 User:admin					Essen	Xtenn	
Actions	Asset Location Details in grid vi	ew.					
Dashboards	ASSET_LOCATION_ID	ASSET_LOCATION_NAME	ASSET_LOCAT	ION_IS_TAG	ASSET_LOCATION_TAG_ID	ASSET_LOCATION_CODE	ASSET_LOC
BashBoard - Out Status	1	INDIA.J	0			J	/India/INDI
	2	INDIA.J-005	1		0B03001C4C4F43000000000	J-005	/India/INDI
BashBoard OUT List	3	INDIA.J-005A	1		0B0541423435410000000000	J-005A	/India/INDI
RFID Settings	4	INDIA.J-005B	1		0B0443313233000021200000	J-005B	/India/INDI
Location Group Master	5	INDIA.J-030	1		0B0300464C4F43000000000	J-030	/India/INDI
RFID Readers BEV	6	INDIA.J-030A	1		0B0300314C4F43000000000	J-030A	/India/INDI
Masters ⊕ Asset Location Master ⊕ Asset Location Master ⊕ Asset Master ▲ Employee Master ➡ Erranch Master ➡ Branch Master ➡ Add Sub Location User Management ▲ User Master	Asset Location Full Name IS ASSET LOCATION HAVE TAG Sub Location of Asset Location Type Device IP Tag ID	/India/INDIAJ/INDIAJ/INDIAJ/ /India/INDIAJ/ OTHER 192-160-123-147 0803001C4C4F4300000000 BWite in Tag	✓ ► Read Ta	g Clear Tag			

Asset Master: A μ METALLICATM tag is affixed to each asset and registered to that particular asset in the database.





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CASE STUDY

Department Master: This adds company department details into the database.

Actions	😽 Device Details	in arid view	N.							
Bashboards	DEPTID	DEPTN			DEPTCODE	REMARK	CREATED_BY	CREATED_ON	MODIIFIED_BY	_
Dashboards All Status	7	Targe	t - Stability - 5323		5323	Target - Stability	admin	30-03-2013 4:22 PM		_
- III DashBoard	8		t - PL Commercialization	- 5422	5422	Target - PL Commercialization	admin	30-03-2013 4:22 PM		
DashBoard OUT List	9	-	Modem SW - UIM Smart		6368	QIPL Modem SW - UIM Smart Card	admin	30-03-2013 4:22 PM	b	
PRFID Settings	10	QIPL 1	Target - PL Commerciali	za - 6403	6403	QIPL Target - PL Commercializa	admin	30-03-2013 4:22 PM		
Location Master	11	QIPL I	MODEM SW - MULTIMO	DE - 6389	6389	QIPL MODEM SW - MULTIMODE	admin	30-03-2013 4:22 PM		
RFID Readers BEV	12	QIPL I	Modem System Test - 63	67	6367	QIPL Modem System Test	admin	30-03-2013 4:22 PM		
🚯 Admin Tasks	<									>
	💏 Data Entry For	m.								
Export Session Data	Departmen	t Name	Target - MPSS Power SW	. 5221						
Inventory Transaction Post Inventory Data in AM				- 3521						
Dashboardimage	Departmen	t Code	5321							
Masters	Remark	-	Target - MPSS Power SW	1						
19 Asset Category / Type 19 Asset Location Master	System ID		6							
- 🛃 Asset Master - 🥵 Department Master	🖉 Qk		Cancel	~	Jear	Export To Excel				
Add Sub Location User Management User Master										
v DeviceIP: 192.168.123.147										
Acknowledgment Dashboard Report Search Asset List Strace Asset Locations Oracle Import Clean Data Device IP: 192.168.123.147 Status Time: 15:35:6 Device IP: 192.168.123.147 is Not Connected	Person Depa		te							
Role Mapping Acknowledgment Dashboard Reports Search Asset List Trace Asset Locations	Person Depa	tment Mas	Ice							

Employee Master: This adds employee details into the database along with their department, manager and location information.

Actions	3 tr	ployee Details in	grid view.								
Alerts / Exception Management			EMP_NAME	EMP_CODE	DMP_DMAL	EMP_MOBILENO	DEPTNAME	MANAGER_NAME			
Werts / Exception Management		1	Kranthi Teja A	29993	isteja		QPL HID ADMIN - 6365	Ravindra Adapa			
- Alert Email Mapping		2	Mallikarjuna A	43990	Cmalika	91-86-8606-1648	QCA Hyd Apps Eng QPL - 7461	Raheem Baig			
Alert Viewer		3	Ramanjaneya Reddy A	37559	118	91-95-0263-7773	QIPL IPS HW - 6882	Anil Allada			
Asset Exception List		4	P. Sukumar A.	23347	sukumara		QIPL MODEM SW - AIR INTERFACES - 6387	Gepal (QPL LTE)			
DashBoard - Out Status		5	Suresh Kumar Aakula	41796	c_saskul	91-9985123378	QMC CoreESP APT HYD - 6433	Manish Garg			
- III DashBoard		6	Lokesh Kumar Aakulu	30500	Rumar	918106774653	QuIC Linux SW H1/D - 6419	Daneswara Tatak			
DashBoard OUT List	<	c >									
RFID Settings	Sr De	ta Entry Form.									
-III Location Group Master	6	Employee Nam	e Kranthi Teja A	Departm	ent Q	PL HYD ADMIN - 6365	*				
Admin Tasks		Employee Code	29991	Manager	Name R	alindra Adapa	~				
		Email Id	kteja	Location	Name IN	DIA L-910AS	*				
- Export Session Data		Viobile No	rede	Remark		dapa					
 Inventory Transaction Dashboardimage 				Remark		ospa					
Masters	-	System ID	1								
- On Asset Category / Type						_					
Asset Location Master		0 0x	Cencel	🖌 Qear	disport 3	lo Excel					
S Department Master											
Employee Master											
Diser Management											
User Management											
User Management Liser Master Skille Master											
User Management User Master Role Master Role Master											
User Management User Master Role Mapting Acknowledgment Dashboard											
User Management Luser Master Role Master											
User Management User Master Role Master Acknowledgment Dashboard Reports											
User Management User Master Role Master Acknowledgment Dashboard Reports											
User Management User Master Rise Master Rise Master Rise Master Rise Mapping Acknowledgemen Dashboard Repots Search Asset List											
User Management User Master Reib Master Acknowledgment Dashboard Search Asset Ust											
User Management User Master User Master Rike Master Rike Master Rike Mapping Acknowledgement Dashboard Reports Search Asset List											



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CASE STUDY

Dashboards:

These display the last location details of assets with a location-wise count.

Dashboard IN: This displays the location-wise status of assets inside the company premises.

Actions	Search Asset		¥		<i>p</i> .			
Alerts / Exception Management	ASSET STA	TUS :GATE1 IN		13	ASSET STA	TUS :GATE2 IN		7
- Alert Email Mapping	ASSET CODE	DESCRIPTION	CREATED_ON	LAST_LOCATION_ ^	ASSET CODE	DESCRIPTION	CREATED_ON	LAST_LOCATION_DE
- 🔮 Alert Viewer - 🚮 Asset Exception List	N10DW5VHT	N10DW5VHT	05-10-2013 1:42 PM	GATE1	N10DVDBDB	N10DVDBDB	05-10-2013 1:39 PM	GATE2
ashboards	N10DW5W07	N10DW5W07	05-10-2013 1:42 PM	GATE1	N10DVDBVV	N10DVDBVV	05-10-2013 1:39 PM	GATE2
DashBoard - Out Status	N10DW5VXD	N10DW5VXD	05-10-2013 1:42 PM	GATE1	N10DVDC2H	N10DVDC2H	05-10-2013 1:39 PM	GATE2
DashBoard	N10DW5VNL	N10DW5VNL	05-10-2013 1:42 PM	GATE1	N10DVN411	N10DVN411	05-10-2013 1:38 PM	GATE2
DashBoard OUT List	N10DW5XX6	N10DW5XX6	05-10-2013 1:42 PM	GATE1	N10DVDBYP	N10DVDBYP	05-10-2013 1:38 PM	GATE2
RFID Settings	N10DW5VGV	N10DW5VGV	05-10-2013 1:42 PM	GATE1	N10DW8M64	N10DW8M64	05-10-2013 1:38 PM	GATE2
Elecation Group Master	N10DW2FYM	N10DW2FYM	05-10-2013 1:41 PM	GATE1	6077086	6077086	05-10-2013 1:35 PM	GATE2
III RFID Readers BEV Admin Tasks				to the last				
Import Data	ASSET STA			0				
Export Session Data	ASSET CODE	DESCRIPTION	CREATED_ON	LAST_LOCATION_DI	1			
Aasters Asset Lacation Master Asset Lacation Master Asset Master Service Master Ser Management Kole Master Role Master Role Master Role Master Role Master Sole Mas								
riceIP: 192.168.123.147 tus Time: 13:43:26 s read: 1 124e313044505833323600 v	🖷 Dash Board	x						

Dashboard OUT Status: This shows assets that are moved out of their assigned location. This allows the user to determine the last location of the asset.

And Categories Asset code DESCRIPTION CREATED_ON LAST_LOCATION_A Asset Addet Kimali Mapping Asset code DESCRIPTION CREATED_ON LAST_LOCATION_A Asset Addet Kimali Mapping NIGOVDENP NIGOVDENP DS-ID-2013 2:01 PM GAE1 NIGO Dashboards NIGOVDENV NIGOVDENV NIGOVDENV DS-ID-2013 2:01 PM GAE1 NIGO	ET CODE DESCRIPTION DW9M4K N10DW9M4K DW2FYM N10DW2FYM	CREATED_ON 05-10-2013 1:37 PM	Z
Image: Construction Asset Code Description CREATED_ON Last_LOCATION_A Asset •/> Alert Viewer •// Asset Exception List •// Asset Exception List	DW9M4K N10DW9M4K		
Asset Exception List 1000/06/1/ 1000/06/1/ 1000/06/1/ 1000/06/1/ Dashboards 1000/06/1/ 1000/06/1/ 051/02/32 01 PM GATE1 1100/06/1/ Dashboards 1000/06/1/ 1100/06/1/ 100/06/1/ 051/02/32 01 PM GATE1 1100/06/1/		05-10-2013 1:37 PM	GATE2
DashBoard - Out Status N100V0844 N100V08464 05-10-2013 2:01 PM GATE1 N100V 11 DashBoard - Out Status	DW2FYM N10DW2FYM		
DashBoard - Out Status N10DVDBVV N10DVDBVV 05-10-2013 2:01 PM GATE1		05-10-2013 1:59 PM	GATE2
DashBoard N10DWR9CY N10DWR9CY 05-10-2013 2:00 PM GATE1			
DashBoard OUT List 6077086 6077086 05-10-2013 2:00 PM GATE1			
RFID Settings N10DW5VGV N10DW5VGV 05-10-2013 1:58 PM GATE1			
Location Master N100WSVXD N100WSVXD 05-10-2013 1:50 PM GATE1			
RFID Readers BEV			
Admin Tasks			
Export Session Data ASSET CODE DESCRIPTION CREATED_ON LAST_LOCATION_DE			
Inventory Transaction			
Dashboardimage Masters			
Asset Category / Type			
Asset Location Master			
a Asset Master			
S Department Master			
- 🚨 Employee Master			
User Management			
Leser Master			
Bole Master			
🥵 Role Mapping Acknowledgment Dashboard			
Reports			

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Dashboard OUT List: This displays a list of all assets which are outside their assigned locations with a location-wise count.

HandyScanna[™] Application:

The HandyScanna[™] is a hand-held wireless device with a built-in Asset Tracking application. It communicates with the SQL Server database through a Wi-Fi network. The HandyScanna[™] performs the following tasks:

- Synchronization
- Find Assets
- Inventory (Stock Checking)

Synchronization: Before using HandyScanna[™], the Wi-Fi network is switched on and the master data is downloaded into the HandyScanna[™] device using the synchronization application. After downloading the data, the user can find assets or take the Inventory.

Find Assets: When an asset is to be located, its code is entered into the Search box. This will display the last location details. After this, the operator scans the location with the HandyScanna[™] and if the asset is located, an Asset Found message is displayed on the device screen.









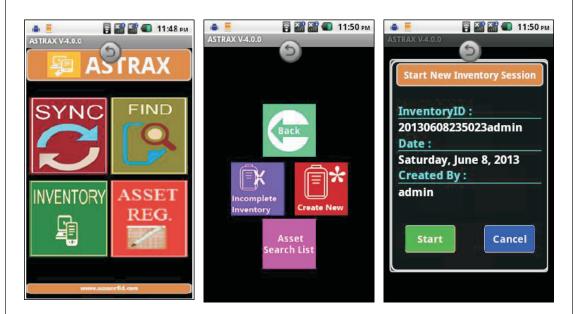
Inventory Checking:

- 1. Each location is scanned for assets through the Inventory option.
- 2. The company takes inventory on a weekly basis. To start taking inventory, the application first creates a new inventory session.

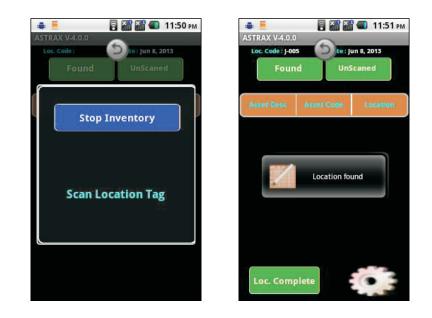
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3. Firstly the METALLICA[™] location tag is scanned and its details are displayed on the device screen.







4. After the location is scanned, the asset tags at that particular location are then scanned.

Four	nd Ur	Scaned	Fou	nd UnScaned
Asset Desc	Asset Code	Location		inish Inventory
SD247	Q00247	/India/INDIA.J/ INDIA.J-005/		initial intention y
SD249	Q00249	/India/INDIA.J/ INDIA.J-005/		
SD252	Q00252	/India/INDIA.J/ INDIA.J-005/		Power Setting
6077086	6077086	/India/INDIA.J/ INDIA.J-100A/		
FX75495	FX75495	/India/INDIA.J/ INDIA.J-005/		Cancel
N108PCG7H	N108PCG7H	/India/INDIA.J/ INDIA.J-005/		Andreas
N108VPK7H	N108VPK7H	/India/INDIA.J/ INDIA.I-005/	N108VPK7H	N108VPK7H /India/INDIA INDIA 1-005

- 5. When scanning at that location is completed, the inventory checking is moved to the next location. Similarly, the next location tag is scanned and then the asset tags at that location are scanned. When scanning of all locations is done, the inventory taking is completed.
- 6. When the operator wishes to complete a previous inventory session, he selects the Incomplete Inventory option instead of creating a new inventory session. He selects a previous inventory session from the session list and scans the locations and assets.
- 7. When inventory taking is completed, the transaction data is synchronized back into the server using the Synchronize application option. If the HandyScanna[™] device is not in Wi-Fi range, it is brought back into signal range and the data is then synchronized.

teader	Message:-		
	Synchronization Handy-Scanna		
	Handy Scanna P Address :	10 242 48 101	
	Handy Scene Fort	\$191	
	File Faith This System:	1	
	proventional file it can Manufy Scanna (Synchroed	ie dala on serve (liphod like in Hardy Scarea)	



Desktop Transaction Modules:

These consist of:

- Admin Tasks
- Alert/Exception Management
- User Management

Admin Tasks:

Export Session Data: The operator checks inventory using the HandyScanna[™] device and then synchronizes the updated inventory data with the server. After synchronization, he can export the session data into csv file format using this functionality.

Actions	Exporting RFID Inventory File in HP Asset Manager Format					
Alerts / Exception Management Alert Categories Alert Email Mapping P Alert Viewer	Inventory Data Select Inventory Session 20140214183128anoopa v (Sess		te Readers om Date 2014-	05-06 🔲 🔻 To D	ate 2014-05-06 🐨	💎 Filter
- 5 Asset Exception List	List of Assets found in the selected inventory session					
Dashboards	TSV_EXPORT_HP_AM_FORMAT	ASSETCODE	CREATED_BY	CREATED_ON	ASSET_LOCATION_DESC	INVENTORY_S
BashBoard	N108W44VTanoopa02/14/2014 06:32:11 PMIndialNDIA.JINDIA.J-100D	N108W44VT	anoopa	14-02-2014 6:32 PM	/India/INDIAJ/INDIAJ-100D/	1
DashBoard OUT List	6054815anoopa02/14/2014 06:32:11 PMIndiaINDIA.JINDIA.J-100D	6054815	anoopa	14-02-2014 6:32 PM	/India/INDIA.J/INDIA.J-100D/	1
RFID Settings	N1097X015anoopa02/14/2014 06:32:11 PMIndiaINDIA.JINDIA.J-100D	N1097X015	anoopa	14-02-2014 6:32 PM	/India/INDIA.J/INDIA.J-100D/	1
	6078645anoopa02/14/2014 06:32:11 PMIndiaINDIA.JINDIA.J-100D	6078645	anoopa	14-02-2014 6:32 PM	/India/INDIAJ/INDIAJ-100D/	1
Location Group Master	N108VCYCManoopa02/14/2014 06:32:11 PMIndialNDIA.JINDIA.J-100D	N108VCYCM	anoopa	14-02-2014 6:32 PM	/India/INDIA.J/INDIA.J-100D/	1
RFID Readers BEV	N108XKXXTanoopa02/14/2014 06:32:11 PMIndialNDIA.JINDIA.J-100D	N108XKXXT	anoopa	14-02-2014 6:32 PM	/India/INDIAJ/INDIAJ-100D/	1
Admin Tasks	N108WC5JPanoopa02/14/2014 06:32:11 PMIndialNDIA.JINDIA.J-100D	N108WC5JP	anoopa	14-02-2014 6:32 PM	/India/INDIAJ/INDIAJ-100D/	1
-B Export Session Data	N109B12F3anoopa02/14/2014 06:32:11 PMIndiaINDIA.JINDIA.J-100D	N109B12F3	anoopa	14-02-2014 6:32 PM	/India/INDIAJ/INDIAJ-100D/	
Inventory Transaction	N108VPW1Wanoopa02/14/2014 06:32:11 PMIndiaINDIAJINDIAJ-100D		anoopa	14-02-2014 6:32 PM	/India/INDIAJ/INDIAJ-100D/	
Bost Inventory Data in AM						
🐉 Dashboardimage	N109BCRR8anoopa02/14/2014 06:32:11 PMIndiaINDIA.JINDIA.J-100D	N109BCRR8	anoopa	14-02-2014 6:32 PM	,	1
Masters	N108VDYKDanoopa02/14/2014 06:32:11 PMIndiaINDIA.JINDIA.J-100D	N108VDYKD	anoopa	14-02-2014 6:32 PM	/India/INDIA.J/INDIA.J-100D/	1
	<					>
Soperatiment Master Employee Master Employee Master Branch Master Add Sub Location User Management User Master User Master	1. Select the file Band 2. Enter the Band 3. Save the File.					
Role Mapping Acknowledgment Dashboard						
Scole Mapping Acknowledgment Dashboard Acknowledgment Dashboard v Reports v DeviceIP: 192.168.123.147 Status Time: 15:47:20						
Acknowledgment Dashboard Acknowledgment Dashboard Reports DeviceIP: 192.168.123.147 Status Time: 15:47:20 Device IP: 192.168.123.147 is						
Acknowledgment Dashboard Acknowledgment Dashboard Reports OeviceIP: 192.168.123.147 Status Time: 15:47:20 Device IP: 192.168.123.147 is Soft Connected	Record count ;41					
Acknowledgment Dashboard Reports DeviceIP: 192.168.123.147 Attus Time: 15:47:20 Levice IP: 192.168.123.147 is for Connected	Record count :41					
Acknowledgment Dashboard Acknowledgment Dashboard Reports Oevice IP: 192.168.123.147 Status Time: 15:47:20 Device IP: 192.168.123.147 is Vot Connected	💀 Export Data 🛛 🗶					
Role Mapping Acknowledgment Dashboard Reports v DeviceIP: 192.168.123.147 Status Time: 15:47:20						

Inventory Transaction: Here the user can view session-wise scanned inventory details, along with locations and assets found/not found.

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CASE STUDY ASTRAX ™ 2.2.0.14 Essen ASTRAX TM Version:2.2.0.14 User:admin Actions 😽 Select Session Code Verts / Exception Management Session Code 20140214183128anoopa ✓ Multiple 🦂 Select Session Header row and click on Complete Inventory button INVENTORY_SESSION_ID INVENTORY_SESSION_CODE INVETORY_TAKEN_BY INVENTORY_STARTED_AT INVENTORY_COMPLETED_AT 1 20140214183128anoopa anoopa 14-02-2014 6:31 PM Alert Viewer Asset Exception List INVENTORY_S ► 1 Asser Exception Ess Admin Tasks Admin Tasks Post Inventory Transaction Post Inventory Data in AM Post Inventory Data in AM Adminstra Dashboards Scanned Location Details ASSEL COLORITION_NAME INVENTORY_TRN_ID INVENTORY_LOCATION_ID INDIA_1-100D 1 13 INDIA_1-030C 2 8 INDIA_1-005A 3 3 INDIA_1-005 4 2 Total Location Scanned 10 0 Oashboardimage Masters Asset Category / Type Asset Location Master Asset Location Master Banch Master Goudent Stater Add Sub Location Ouser Management Sole Master Acknowledgment Dashboard Reports Total Asset Scanned 41 0 B002 B001 375 Total asset not found 1 0 374 INDIA.J-030 5 INDIA.J-005B Total Asset 42 INDIA.I-030A 6 Complete Inventory DeviceIP: 192.168.123.147 Status Time: 15:48:1 Device IP : 192.168.123.147 is Not Connected null 🖷 Inventory Transaction 🛛 🗙 😽 Application Log Log

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Post Inventory Data in AM: Through this functionality, the user posts the Astrax[™] inventory session data to the company's pre-existing Oracle-based Asset Management.

0:Please Wait... - [Loading Employee Master]

Xtenna"

Actions		en Inventory Sess	ons - (Pending for P	losting in AMI							
		Confirmation	_		INVETORY_TA	INVENTORY S	INVENTORY C	INVENTORY S	CREATED BY	CREATED ON	MODIFIE
Alerts / Exception Management		v	5	2014021815211		18-02-2014 3:2		1		05-04-2014 1:0	
Alert Email Mapping		·	4	2014040512442	sjavaker	05-04-2014 12:		1	sjayaker	05-04-2014 1:0	
Alert Viewer	•		3	2014021420195	anoopa	14-02-2014 8:2		1	Joyana	14-02-2014 8:2	
Asset Exception List			2	2014021420130	anoopa	14-02-2014 8:1		2	anoopa	14-02-2014 8:2	anoopa
Dashboards			1	2014021418312		14-02-2014 6:3		3	anoopa	14-02-2014 6:4	
PashBoard OUT List FRID Settings Location Master Location Group Master FRID Readers BEV Markin Tasks Tomport Data Nentory Transaction Post Inventory Tata in AM											



Alert/Exception Management:

Alert Email Mapping: When an alert is generated, a notification email is sent to the concerned authorized person. Through this screen, the person to whom the alert has to be sent is mapped in the database for that particular alert, along with his email id and mobile number.

Actions	😽 Ale	ert Email Mapping in grid v							
👷 Alerts / Exception Ma 🔺		ALERT_EMAIL_MAP_ID	EMAIL_ID	EMAIL_DOMAIN_ADDRESS	ALERT_CAT_CODE	ALERT_MAP_DESC	EMAIL_ADDRESS	CREATED_BY	CREATED_O
- 7 Alert Categories		8	Select	@gmail.com	A002	147	Select@gmail.com	admin	13-03-2013
Alert Email Mappir		9	jaiengineer	@gmail.com	A001	fdgdf	jaiengineer@gmail.com	admin	13-03-2013
		10	darshanb.vyas		A001	fghfgh	darshanb.vyas@gmail.com		13-03-2013
Bashboards		11	shashim97	@gmail.com	A003	147	shashim97@gmail.com	admin	15-03-2013
- El DashBoard - Out S	Þ.	12	kkiran	@gmail.com	A003	985643366566	kkiran@gmail.com	admin	15-03-2013
		13	abhi	@gmail.com	A004	456	abhi@gmail.com	admin	30-03-2013
BashBoard OUT L	<								3
Location Master	😽 Dat	ta Entry Form.							
Location Group Ma	F	Email ID	kkiran	~					
RFID Readers BE									
🔂 Admin Tasks	E E	Email Domain Address	2gmail.com						
	F	Alert Category	A003	¥					
Trine Constant De									
Export Session Da		Mobile No	985643366566						
Export Session Da Inventory Transact Post Inventory Dat	N								
Inventory Transact Sort Inventory Dat DashboardImage	N		985643366566 kkiran@gmail.com						
Inventory Transact Post Inventory Dat DashboardImage Masters	N E	Email Address							
Inventory Transact Post Inventory Dat DashboardImage Masters Sest Category / 1	N E	Email Address	kkiran@gmail.com						
Inventory Transact Post Inventory Dat DashboardImage Masters Asset Category / 1 Asset Location Ma	N E	Email Address	kkiran@gmail.com	✓ <u>C</u> lear	Export To Excel				
Inventory Transact Post Inventory Dat DashboardImage Masters Sest Category / 1	N E	Email Address System ID	kkiran@gmail.com 12	✓ <u>C</u> lear	Export To Excel				
Inventory Transact Post Inventory Dat DashboardImage Masters Saset Category / 1 Asset Category / 1 Asset Master Soperative Master Department Maste Department Master	N E	Email Address System ID	kkiran@gmail.com 12	✓ Çlear	🚡 Export To Excel				
Inventory Transact Post Inventory Dat DashboardImage Masters Asset Category / 1 Asset Category / 1 Asset Asset Master Separtment Maste Employee Master Transach Master	N E	Email Address System ID	kkiran@gmail.com 12	✓ <u>C</u> lear	🕈 Export To Excel				
Inventory Transact Post Inventory Dat DashbardImage Masters Soset Category / 1 Asset Category / 1 Asset Location Ma Soset Master Sopartment Master Franch Master Add Sub Location	N E	Email Address System ID	kkiran@gmail.com 12	✓ Qear	출 Export To Excel				
Inventory Transact Post Inventory Dat DashboardImage Masters Asset Category / 1 Asset Category / 1 Asset Category / 1 Asset Master Sopartment Maste Branch Master DashboardImagement	N E	Email Address System ID	kkiran@gmail.com 12	✔ Qear	출 Export To Excel				
Inventory Transact Post Inventory Dat DashboardImage Masters Asset Category / 1 Asset Location Master Separtment Master Genarch Master Add Sub Location User Management Super Master	N E	Email Address System ID	kkiran@gmail.com 12	✔ Clear	출 Export To Excel				
Inventory Transact Post Inventory Dat DashboardImage Masters Asset Category / 1 Asset Category / 1 Asset Category / 1 Asset Master Sopartment Maste Branch Master DashboardImagement	N E	Email Address System ID	kkiran@gmail.com 12	√ Ωear	츐 Export To Excel				
Inventory Transact Post Inventory Dat DashboardImage Masters Asset Category / 1 Asset Asset Asset Category / 1 Asset Aset Asset Aset Asset Aset	N E	Email Address System ID	kkiran@gmail.com 12	✓ Gear	출 Export To Excel				
Inventory Transact Post Inventory Dat DashboardImage Masters Asset Category / 1 Asset Cat	N E	Email Address System ID	kkiran@gmail.com 12	✔ Clear	ਲੂੰ Export To Excel				
Inventory Transact Post Inventory Dat DashboardImage Masters Masters Asset Category / 1 Asset Category / 1 Asset Category / 1 Asset Location Me Asset Location Me Separtment Master Gende Master Add Sub Location User Management Sele Master Role Master Add Sub Location	N E	Email Address System ID	kkiran@gmail.com 12	✓ Gear	₫ Export To Excel				
Inventory Transact Post Inventory Dat DashboardImage Masters Asset Category /1 Asset Secondary Asset Secondary Asset Add Sub Location Secondary Asset Add Sub Location Asset Category Asset Acknowledgment Das > DeviceIP:	N E	Email Address System ID	kkiran@gmail.com 12	√ Gear	출 Export To Excel				
Inventory Transact Post Inventory Dat DashboardImage DashboardImage DashboardImage Masters Asset Category / 1 Asset Asset Asset Category / 1 Asset Aset Asset Asset Asset Asset	N E	Email Address System ID	kkiran@gmail.com 12	√ Qear	ਔ Export To Excel				

Alert Viewer: Here the user can view all alerts generated by the system and select those that need his acknowledgment.

Actions	Stop Refresh	🥝 Start Refre	shi							
P Alerts / Exception Ma A	Inv	entory Unscanned As	ssets	Missing A	ssets from Campus					
Alert Categories	🖌 🖌 Acknowl	edge 🗌	Select All							
Alert Viewer Asset Exception L	😭 Alerts - Unse	anned Inventory								
Dashboards	Select To Acknowledge	ALERT_MSG_ID	EXP_ASSET_ID	ALERT_TYPE	ALERT_DESC	ALERT_MSG	ASSETCODE	ASSETDESCRIPTIO	CREATED_ON	ALERT_
BashBoard	v	14	4	MISSING ASSETS LIST	Assests which are	MISSING ASSETS LIST	Q00197	SD197	31-10-2013 1:05	N
DashBoard OUT L	✓	15	2	MISSING ASSETS LIST	Assests which are	MISSING ASSETS LIST	Q00042	SD042	31-10-2013 1:06	N
PRFID Settings		16	1	MISSING ASSETS LIST	Assests which are	MISSING ASSETS LIST	P74767	BC2710	31-10-2013 1:06	N
Location Master		17	3	MISSING ASSETS LIST	Assests which are	MISSING ASSETS LIST	Q00190	SD190	17-01-2014 3:16	N
Masters Masters Masters Masters Asset Location Me Asset Master Separtment Master Branch Master Master Add Sub Location User Management Master	٤									

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Asset Exception List: When assets are officially out of the company premises for a particular time period, they should not trigger off missing asset alerts. For this purpose an exception list is created with 'from' and 'to' dates. During this period an alert is not generated for that particular asset. Once the exception period is exceeded, a missing asset alert will be sent to the authorized person.

Actions	😽 Asset Exception										
Alerts / Excel ^	EXP_ID	ASSETCODE	IS_EXCEPTION	EXP_FROM	I_DATE	EXP_TO_DATE	CREATED_BY	CREATED_ON	MODIIFIED_B	Y MODIIFIED_ON	
Alert Cate	1	P74767	С	22-03-201	3	22-03-2013	admin	22-03-2013	SYSTEM	24-02-2014 4:02 PM	
Alert Ema	2	Q00042	С	22-03-201	3	23-03-2013	admin	13-03-2013 4:58 PM	SYSTEM	24-02-2014 4:02 PM	
- Provident Alert View - Asset Exc	3	N108XKVW2	с	13-03-201	3	13-03-2013	admin	13-03-2013 6:54 PM	SYSTEM	24-02-2014 4:01 PM	
Dashboards	4	Q00197	с	22-03-201	3	23-03-2013	admin		SYSTEM	24-02-2014 4:02 PM	
E DashBoan	▶ 5	Q00190	С	15-04-201	3	15-04-2013	admin	15-04-2013 4:14 PM	SYSTEM	24-02-2014 4:02 PM	
🔡 DashBoan	6	Q00219	C	25-05-201	3	25-05-2013	2013-05-25	25-05-2013 12:48 PM	SYSTEM	24-02-2014 4:02 PM	
DashBoar	7	Q00247	С	25-05-201	3 12:45 PM	25-05-2013 12:45 PM	2013-05-25	25-05-2013 12:48 PM	SYSTEM	24-02-2014 4:02 PM	
RFID Settings	💏 Data Entry Form.										
Location C	Asset Code	Q0019	0		SSET LIST (I	Max. 500 characters includ	ing comma and sp	ace)		Select All Select Inverse	Clear
Export Se Inventory 1 Content of the second	To Date System ID	15-04-20 5	013 V Multiple Asset List		P7654321 Q00190, Q00219, Q00247,				3/3	Q00247	
E Asset Loc Asset Mas Departmer	2 <u>0</u> k	×	<u>C</u> ancel	√ <u>C</u> lear		📸 Export To Excel					
- & Employee - & Branch Ma - & Add Sub L User Manage - & User Mast											
Sole Mast Role Mapr Acknowledgrr ~ >											
viceIP:											

Acknowledgment Dashboard: This shows the list of alerts that have been acknowledged. The user takes personal responsibility for physically locating missing assets and then updates the status as either 'Resolved' or 'Pending'.

Actions	👷 Alerts - Missing	Assets from C	ampus								
Actions Aler Categories Aler Categories Aler Categories Aler Categories Aler Viewer Asset Cacegon III DashBoard DashBoard - Out Sta DashBoard Out Ist DashBoard Ist DashBoard Ist DashBoard Ist DashBoard Ist	C C C C C C C C C C C C C C C C C C C	ACK_ID 1	ACK_ASSET_ID 4 RESOLVED Found Cancel	ACK_ALERT_CAT_III	Pend Reso Total	ing Count lived Count Acknowlegn	06-05-2014-4-08	ACL_STATUS	CREATED_SY admin	CREATED_ON 06-05-2014 4:08	MODIFI

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User Management:

Search Asset List: Through this the user can create a search list for tracking particular assets. This list can then be downloaded by HandyScanna[™] and searched. After scanning is complete, the HandyScanna[™] is synchronized with the server, displaying as 'found' and 'not found'. The data can then be exported in csv file format.

R ASTRAX ™ 2.2.0.14	- 5 X
ASTRAX TM User:	on:2.2.0.14 adminin Essen Studio [™]
Actions Construction of the second s	ASSET LIST (Max. 250) Mo: 1. Data can be provided in the Command expended value (E.g. F1234567.P7654321) 2. Default of the 1. PTAG code in one E.g. P7654321 Q00190 Q00197 Q00030 Q00197 Q00034 Q00034 Q00034 Q00034 Q000352 Q00034 Q000352 Q00
Add Sub Location User Master Super Master Role Master Role Master Sole Master Sol	SRCH,ID SRCH,ASSET,TAGI SRCH,DEVICE,IP SRCH,STATUS SRCH,LOG,TIME SRCH,ASSET,LOG, SESSION,ID INVENTORY,TAKER CREATED,BY CREATED,ON MODIFIE
Device IP : 192.168.123.147 is Not Connected	د معدد النقل المعالي مع المعالي مع مع المعالي المعالي مع ال

Trace Asset Locations: This displays the movement of assets with location and date/time.

Actions	🤣 Search As	sset by Asset	Code							
DashBoard - Out Sta A	Search B	y Name	Q00042				Filter	Remove Filter	Export To Excel	
DashBoard OUT List	😚 Asset Las	t Location de	tails							
RFID Settings	ASSE	TID AS	SETCODE	ASSETDES	RIPTION	TAGID	STATUS	ASSET_LOCATION_NAME	ASSET_LOCATION_CODE	ASSET_LOCATION_I
Location Group Mast	▶ 2	Q	00042	SD042		01124E3130464D393436	5000 IN	INDIA.J-005	J-005	/India/INDIA.J/INDI
Admin Tasks										
Export Session Data	<									>
Inventory Transaction	Asset Tra	cing details,								
Post Inventory Data i	TRN	ASSETID	LOCATION_I	NAME	TRN_FLAG	CREATED_ON				
DashboardImage	▶ 2		INDIA.J-1000)	FOUND	14-02-2014 8:21 PM				
- Million Masters	2		INDIAJ-005/	A	FOUND	14-02-2014 8:17 PM				
Asset Location Mast	2		INDIAJ-100)	FOUND	14-02-2014 6:32 PM				
- 🛃 Asset Master										
- S Department Master										
Add Sub Location										
User Management										
- 🚨 User Master										
- 🥙 Role Master										
- 🖧 Role Mapping										
Acknowledgment Dasht B Reports										
- Bearch Asset List										
Trace Asset Locations										
2 Oracle Import										





Import Data: Through this the user can bulk insert asset and location data into the system. The data can be prepared in csv file format and then imported as new assets into the Astrax[™] application.

Oracle Import: Since the company has pre-existing Oracle-based Asset Management, each asset already has an Oracle asset ID. This screen allows the import of Oracle asset ID into SQL Server for the new assets.

Actions	Get Assets from Oracle Import Assets from Oracle	
DashBoard - Out Sta ^ DashBoard OUT List DashBoard OUT List RFID Settings Location Group Mast Location Group Mast RFID Readers BEV Admin Tasks	gig Record Set for viewing data	
	Get Asset Location from Oracle Import Asset Location from Oracle	
Post Inventory Data i DashboardImage Masters DashboardImage Masters Asset Category / Typ Asset Location Mast Asset Master Department Master Beranch Master Beranch Master Waster Gendament Master Stack Master Master Second Master Sec	별한 Record Set for viewing data	



tag to a new location.

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Old Asset Location ID	ASSET_LOCATION_NAME INDIAJ-0308 INDIAJ-030C INDIAJ-1 INDIAJ-100A INDIAJ-1008 INDIAJ-100C INDIAJ-030A 6		ASSET_LOCATIO	N_IS_TAG	0B070016424 0B0400024E4 0B06000AEF0 0B044331363 0B044131363	TION_TAG_ID 62D4A473131 342530000000 900000000000 400000000000 10000000000
7 8 9 10 11 12 Data Entry Form. Old Asset Location Name Old Asset Location ID	INDIAJ-0308 INDIAJ-030C INDIAJ-1 INDIAJ-100A INDIAJ-1008 INDIAJ-100C	1 1 1 1 1 1 1 1	1 1 0 1 1 1 1 set Location Name		0B070016424 0B0400024E4 0B06000AEF0 0B044331363 0B044131363	62D4A473131 342530000000 9900000000000 400000000000 10000000000
9 10 11 12 Data Entry Form. Old Asset Location Name Old Asset Location ID (INDIAJ-1 INDIAJ-100A INDIAJ-1008 INDIAJ-100C	1 1 1 1 1	0 1 1 1 1 set Location Name	INDIA.J-1	0B06000AEF0 0B044331363 0B044131363	99000000000 40000000000 10000000000 100000000
10 11 12 Data Entry Form. Old Asset Location Name Old Asset Location ID	INDIAJ-100A INDIAJ-100B INDIAJ-100C	1 1 1 1 New As:	1 1 1 1 set Location Name	INDIA.J-1	0B044331363 0B044131363	40000000000 10000000000 10000000000 >
11 12 Data Entry Form. Old Asset Location Name Old Asset Location ID	INDIAJ-1008 INDIAJ-100C	1 1 1 New As:	1 1 set Location Name	INDIA.J-1	0B044131363	1000000000
12 Data Entry Form. Old Asset Location Name I Old Asset Location ID	INDIAJ-100C	1 New As:	1 set Location Name	INDIA.J-1		1000000000
Data Entry Form. Old Asset Location Name 1 Old Asset Location ID	NDIAJ-030A	New As	set Location Name	INDIA.J-1	08044331323	>
Old Asset Location Name				INDIA.J-1		
Old Asset Location Name				INDIA.J-1		Filter
Old Asset Location ID				INDIA.J-1		😽 Filter
	0B0300314C4F43000000000C	New AS	set Location ID	9 Clear N	New Location	
Ø Qk	Cancel					
frmReplaceLocation ×						
	frmReplaceLocation ×	frmReplaceLocation × Application Log	frmReplaceLocation × Application Log	frmReplaceLocation × Application Log	frmReplaceLocation × Application Log	frmReplaceLocation × Application Log

Replace Location: This allows the administrator to transfer an existing location

BENEFITS:

- Efficient organization of assets at their proper location.
- Organization of accessories as sub-assets of a particular asset in a parentchild relationship.
- Quick match of accessories to their parent assets.
- Assigning asset location in database results in easy search for a particular asset within that location.
- Enables grouping of assets and asset inventory synchronization.
- Efficient data synchronisation between hand-held device and the server through Wi-Fi connectivity.
- Elimination of time wastage occurring due to visual search.
- Optimum usage of assets and streamlined functioning.
- Inventory data post to pre-existing Oracle-based system.
- Missing asset details promptly emailed to authorized management.
- Easy generation of asset reports.
- Greater transparency in entire asset tracking process.







LINKS:

Hardware:



Software:



Reference Example:

http://www.essenrfid.com/Mailer/Inventory-flash-demo.pdf