



ACUBE INFOTECH



RFID ASSET TRACKING SYSTEM

INTRODUCTION



ACUBE INFOTECH is the leading provider of business solutions in the field of UHF (Ultra High Frequency) RFID technology in the UAE & the GCC Region. Our core services include the development, implementation, and maintenance of customized business solutions that leverage advanced RFID technology.

Our business objective is to become a pioneer in the field of AIDC (Automatic Identification and Data Collection).

We currently serve customers all across the GCC and MENA region.



ACUBE INFOTECH



Asset Tracking |

Uniform & Linen Tracking |

Laundry Tracking |

People Tracking |

Jewelry Inventory Tracking |

Vehicle Tracking |

Event Tracking |

Retail Inventory Tracking |

Event Tracking |

Anti Theft Solution |

Parking Access Control |

Warehouse Tracking |

RFID Access control |

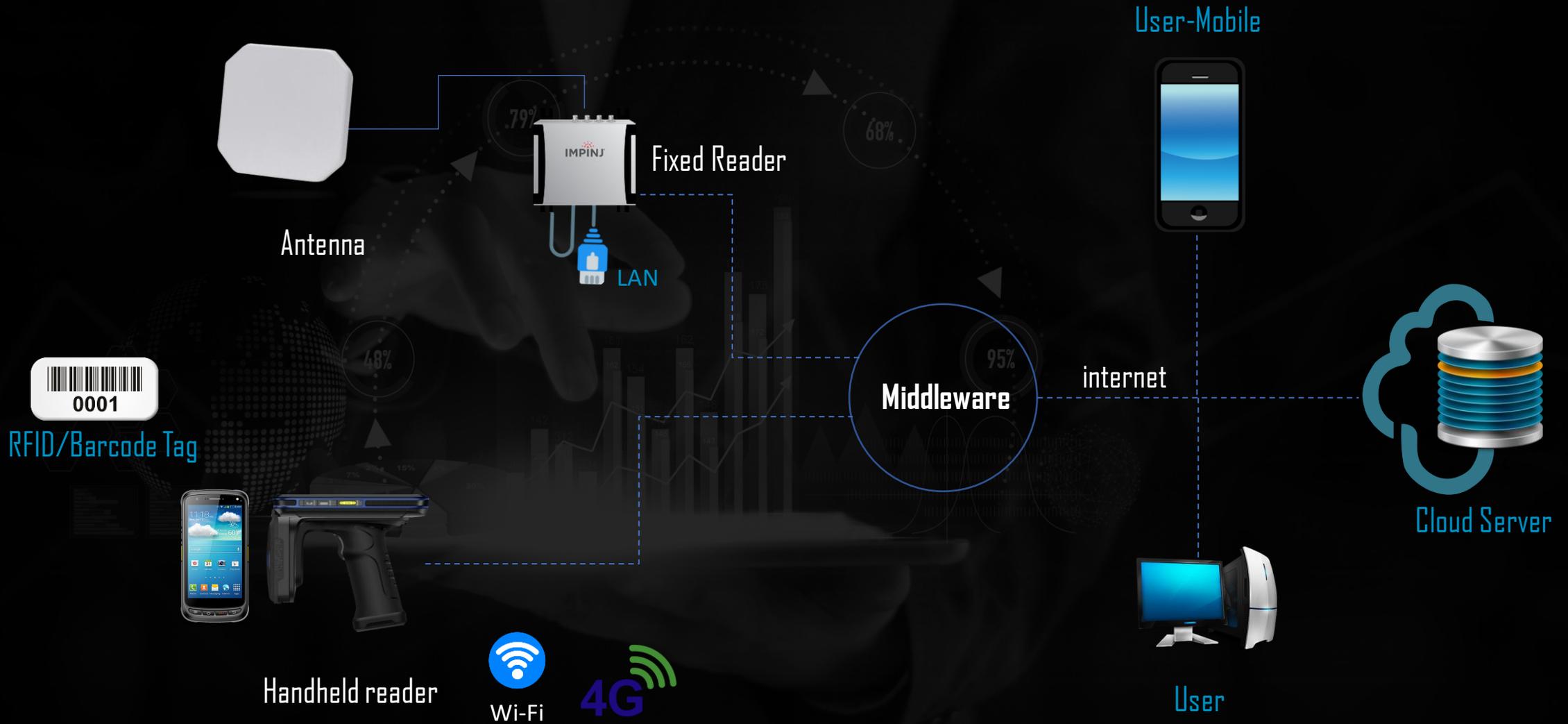
440+
Projects

15+
Countries
Serving



12+
solutions

230+
Clients





Traccia takes care of your assets in 360 degrees, the integrated system comes with a centralized platform, hardware, and accessories to form total management in asset control and monitoring. With the solution in place, every piece of your assets in your company will be kept in appropriate conditions and maintain its worth. **Traccia** maximizes the reliability and stability of assets, predicts equipment failure, and moves your preventative maintenance to the next level. **Traccia** overcomes the risks of theft, inaccurate records, outdated reports, auditing issues, failure in tracking assets in transfer, and human error.



Healthcare | Educational | Manufacturing | Hospitality | Aviation |
Government | Construction | Banking |



COMPONENTS

RFID Encoder



RFID hard tags cannot be printed or encoded with a Printer. In that case, RFID encoders are used. It's a compact device usually connecting to the USB of the computer.

RFID Printer



RFID Printer is used to print and program the tags. Depending on the use there are a variety of printers available. For normal usage, printers like ZD500R are used, which is capable of loading around 500 tags at a time. For bulk printing, ZT411R can be used which is faster and can hold up to 2000+ tags in a single load.

Fixed readers



Used for automated movement tracking of assets by mounting the reader and antenna in entry/exit points.

Handheld reader

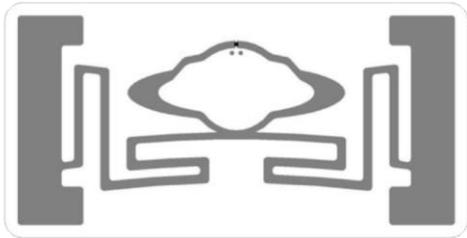


The Android-based device with the mobile application is used for remote operations. It comes with 4G and WIFI connectivity.



- The RFID Tags are enabled with Electronic Product Code (EPC) that identifies specific items as they travel between locations to share information more effectively. It also increases the speed of operations as items are recognized quickly and easily. When a reader scans the tag, it transmits back the unique EPC code. This is done with little to no manual effort required, compared to the work needed to open boxes and scan barcodes. This will offer significant operational benefits.

EPC global UHF Class1 Gen 2 (ISO 18000-6C)
Operating Frequency: Global 840-960 MHz
Memory: EPC 128 bits



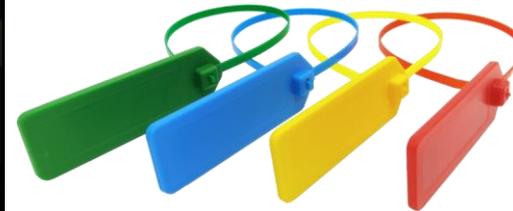
Non Metal Label

Paper or Synthetic RFID labels are used for all non metal assets like furniture and fixtures.



Metal RFID Labels

For metal and electronic assets, specialized RFID labels can be used.



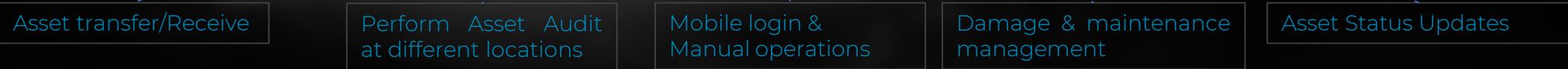
Cable Tie Tag

Cable tie tags are used for pipe or any assets where the tags cannot be stuck or welded.



RFID Hard Tag

Hard tags are used for heavy and outdoor assets especially when the environment is challenging.



RFID Handheld and Mobile application

- Customized RFID based application
- RFID tagged items captured using the application



RFID READERS



ANTENNA



1

Portal readers at Inbound & Outbound Area of Warehouses/ Stores enables Automated Tracking.

2

Anti-Theft System: Unauthorized movements from Store / Warehouse can be identified & notified through emails & Alarms

3

Audiovisual alarm for unauthorized asset movements.

For tracking, assets movement within the premises fixed RFID readers is used. Entry/exit gates are equipped with antennas as shown in fig. The system provides live monitoring and hence all the movements are tracked and updated.



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ACUBE
REDEFINING INNOVATION

RFID Asset Tracking System





Cloud Central Server



Location 1



Location 2



Mobile Application



Remote Devices





PURCHASE ENTRY

An asset is tracked from the purchase until it is disposed of. The purchase bulk entries are made into the system via importing in excel or CSV file or can be recorded manually. Automated synchronization is possible through integration with ERPs



ERP Integration



PO can be downloaded from the ERP through integration. The data will be automatically synchronized with the Acube system.

1

For a standalone system, PO entry can be done manually, or direct asset registration can be done.

2





The screenshot shows the 'Asset Register' form with the following sections:

- Asset Receipt:** Product Code, Purchase Price, Purchase Date (9/30/2021), Supplier Code, Is Depreciation Required (checked), Attach Image (Choose File), Product Description, Category Code, Sub Category Code.
- Asset Attributes:** Brand Code, Model Code, Asset Status, Asset Condition, Department, Employee, Supplier Part No, Location.
- Finance Details:** Warranty Start Date, Warranty End Date, Warranty Value, Insurance Company, Insurance Start Date, Insurance End Date, Insurance Value, Salvage Value.

The purchased Assets are now registered in the system with all required information including the Images of the assets. RFID/Barcode data are assigned to the assets. For machinery and Equipment warranty details, AMC details, and Maintenance details can be entered if required.

1

Masters like location, category, subcategory will be created. Users can select the parameters from the drop-down.

2

RFID number is automatically generated from the software.

3

Alternatively, the handheld device can be used for registration. The pre-printed tag is scanned and registered.



Asset tagging is carried out by trained executives. All assets are verified and appropriate tags are selected considering the material and the environment. The printed tag is pasted to the respective assets.

Furniture & Fixtures are tagged using normal RFID labels. Tags are customizable as per requirements.

On-metal RFID labels are used for tagging metal assets and IT assets.

Hard tags are used for outdoor assets in a rugged environment. These tags are either welded, riveted, or tied using a cable tie.

1

2

3



OPERATIONS



Asset operations include the transfer of assets between locations and custodians, maintenance tasks like damage reporting, periodic servicing, periodic audit of assets, asset disposal, etc.

1

Handheld or desktop applications are used for transferring assets between any locations or custodians.

2

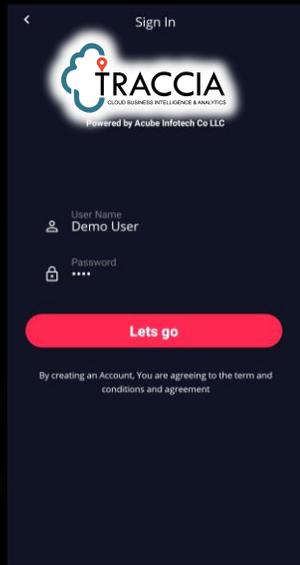
Asset audit can be performed location-wise, room, building, etc. Assets are counted using an RFID handheld reader at 200+ items per second.

3

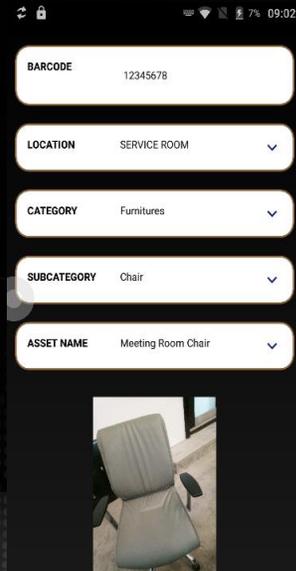
AMS Application will notify the depreciation value of assets. The disposal can be done from a desktop application or handheld application.



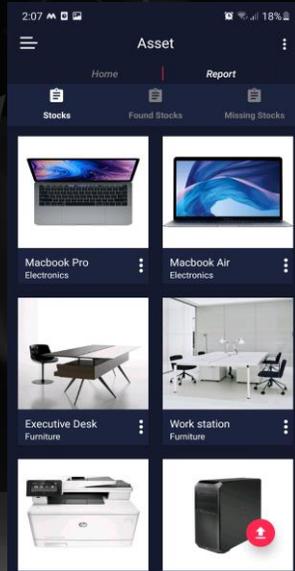
HANDHELD APPLICATION



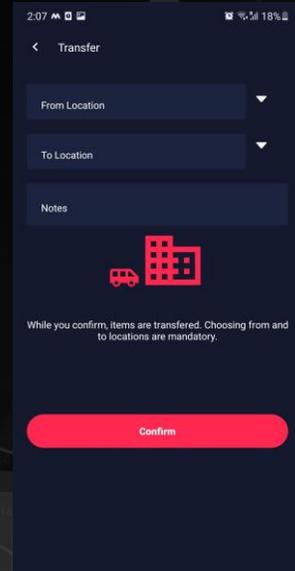
Remote Login



Asset Registration on the go



Instant Audit Result Preview



Asset Transfer option



Traccia handheld application enables to perform asset operations on the go. 4G/Wi-Fi connectivity enables the device to communicate with the central server from remote locations. With a dedicated registration module, add new assets and register them instantly. Update asset status and report damage with ease.

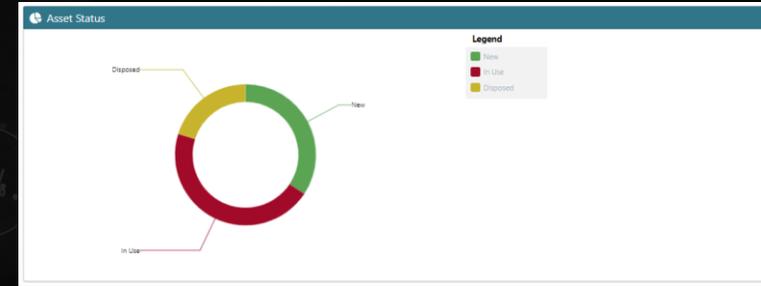


DASHBOARD



Total asset count, assigned & unassigned asset count, asset count by location etc.

Asset status details



Dashboard



Asset by Location



Asset Name & Count

Never miss a maintenance schedule

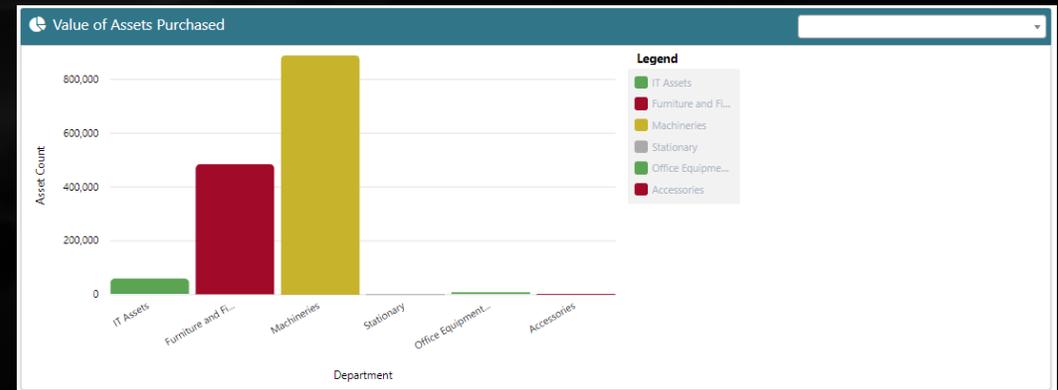
Serial No	Product Code	Product Name	Employee Name	Department Name	Location Name
AcSOAc000001	PS	Paper Shredder	Libin	Information Technology	Glb Testing
OEPRJ0000002	PRJSA	Projector	Libin	Information Technology	Glb Testing
STYNTB000995	NTBA4	Notebook A4 Size 200 P...	Libin	Information Technology	Tag Location
FURCR0000151	P001	High Back Chair	Libin	Information Technology	Board Members Meeting

Recent asset transactions

Last 10 Transactions

Type	Number	Date	User Name
Receipt	RCPT-9834567	Sun Nov 07 2021 12:08:2...	Libin
Direct Tranfer	DRTR-58745	Tue Nov 09 2021 12:08:2...	Arun
Transfer	TR-2587	Thu Nov 11 2021 12:08:2...	Balu
Disposal	DD-6598	Sun Nov 14 2021 12:08:2...	Balu

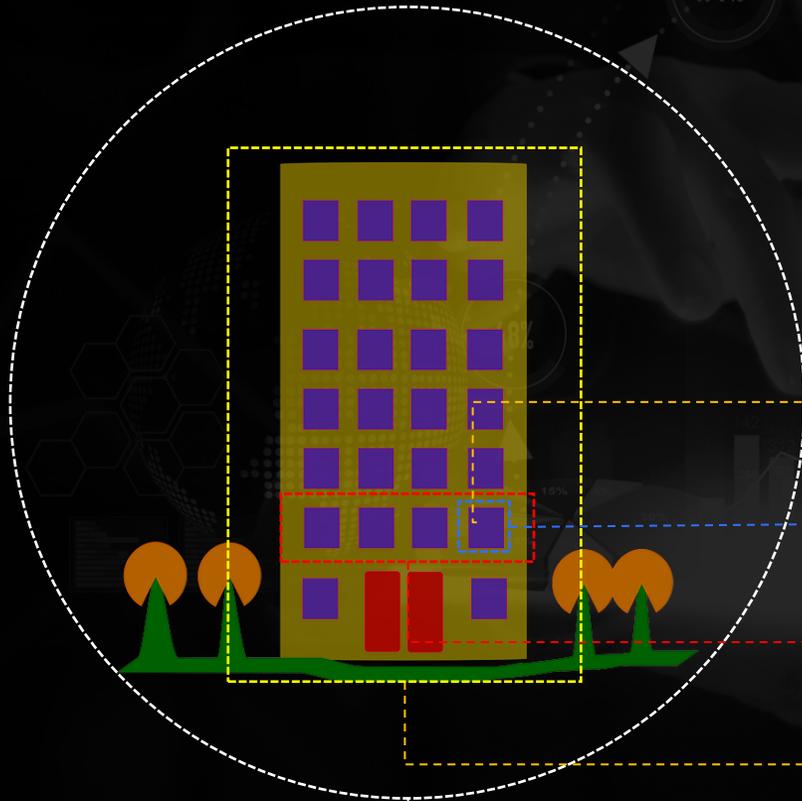
Category wise value of asset purchase



Get a real-time birds eye view of everything happening related to your assets with the advanced dashboard feature.



LOCATION SET UP



Location: Create Multiple Location In a Room

Room: Create Multiple Rooms In a floor

Floor: Create Multiple Floors For a Building

Building: Create Multiple Building within a site

Site: Create Multiple Sites





ASSET ATTRIBUTES



Category: IT Assets

Brand: Apple



Sub Category: All in one Desktop Computer



Model: I mac 2020

Product: Apple I Mac 4K All in one PC

Employee: John



Warranty Start: 11.11.2020
Warranty End: 11.11.2021



Department: Marketing

Supplier: Digitech Computers

Status: Active

Maintenance Due Date: 10.10.2021

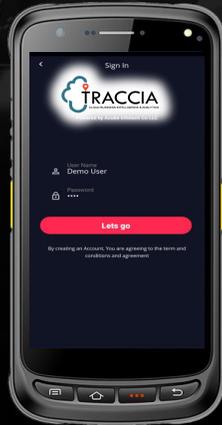




ASSET TRANSFERS



Location 1



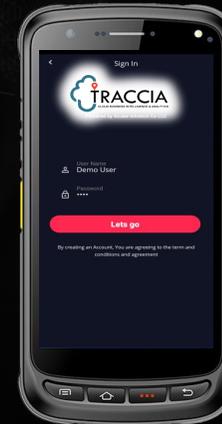
Asset Transfer Between Locations



Location 2



Custodian 1



Asset Transfer Between Custodians

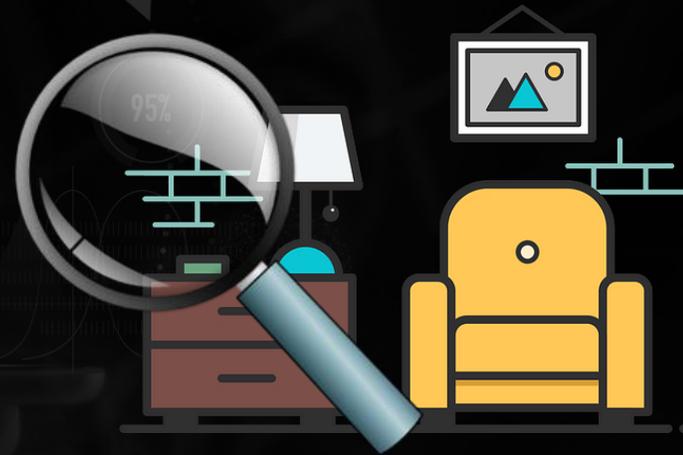


Custodian 2



ASSET LOAN

ASSET AUDIT



Asset Loan Module

Asset With RFID/Barcode



ASSET RECEIPT



Asset Purchase

ASSET MAINTENANCE

Last Maintenance was on 17.4.2020

Next Maintenance Due on 22.10.2020



Periodic Maintenance of Assets

INSURANCE

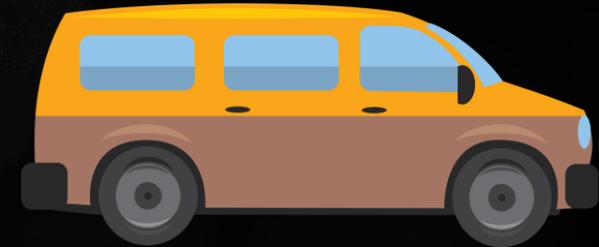
Insurance Expired

on 1.10.2021

HYUNDAI H1

14 Seater

Plate :DUBAI 12345



View and manage insurance



NOTIFICATIONS

79%

68%

AMC Renewal
Due on 1.10.2021
HAVAC
Si No: HV12345

Warranty
Ending on 20.09.2021
Sony LED TV 65"
Si: BRV12345



DEPRECIATION



95%
Category/Subcategory wise

2020



2021



2022





SYSTEM BENEFITS

- Quickly locate critical equipment when it's needed and avoid purchasing new, redundant assets.
- Maintain more accurate physical inventories with less manual labor (labor savings can be reduced by 90%).
- Reduce shrinkage and lost assets.
- Improve security for critical assets.
- Improve the capital expenditure process.
- Increase productivity with automated business processes.
- Increase the utilization of the assets (30-70% on average).
- Simplify audits.





Professional Services: Verification Tagging & Reconciliation

Asset VTR is the most integral part of an asset management solution. Due to high capital and revenue expenditure and increasing compliance requirements, it is vital to maintain proper records of fixed assets. It ensures to avoid any misappropriation of assets and maintain organizations operation seamlessly. Identification, tracking, and controlling of assets with RFID tags become of utmost importance. ACUBE Professionals provide the complete VTR sessions to the clients or if needed training can be provided too.

1

Asset counting & Verification: All the assets are physically counted and verified. If an asset register is not available then it is created based on location, category, and sub-category. Details like brand, model, serial number, warranty details, and price are recorded.



2

Asset Registration: The recorded asset details are now entered in **Traccia**. Alternatively, the android mobile application can be used for faster registration.



3

Tag Printing: Asset tags with all required fields are printed using Barcode/RFID printers. Print design can be customized. The selection of tags depends upon the surface of the material and environment it is used.



4

Asset Tagging: The printed tags are pasted on the assets. Specialized tags are used for metal surfaces and harsh environments. Our professionals make sure all assets are tagged.



5

Report: After the tagging process is completed, a final audit is conducted using RFID/Barcode readers. The advantage of an RFID reader over a barcode scanner is that all assets can be scanned without line-of-sight during an audit. Reports can be generated on the same.





CLIENTS



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Thank You



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