RFID
File Identification &
Tracking System

Presentation Outline

ID Tech Solutions Pvt. Ltd.

ABOUT US

ID Tech Solutions Private Limited an **ISO 9001:2015** certified company formerly known as **ID Solutions was founded in April 2004** to cater to the needs of Plastic Cards and Smart Cards in the Indian subcontinent.

We are the leaders in the "next generation" of Smart Cards, Plastic Cards, RFID products, Card Printers, Handheld Devices, Time Recorders, Entrance Automation Products Access Control Systems, IT and other customized solutions.

Over the past 19 years, we have grown from a company primarily providing plastic cards to **Smart Cards, RFID products, Entrance Automation Products, Track & Trace Solution & Services**, one with the capability, experience, and expertise to provide customized electronic security management focused solutions and services.
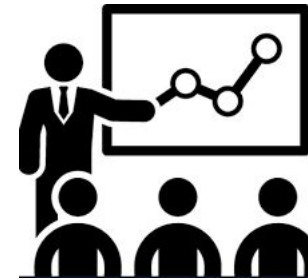
Our experience and strong mission-first work ethic has helped us develop capabilities, insights, and skills that few, system integrators can match.

360°RFID SOLUTION PROVIDER
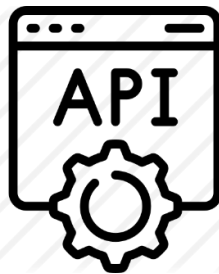
❖ RFID Tags
❖ RFID Labels
❖ RFID Readers
❖ RFID Antennas
❖ RFID Printers

Hardware

❖ Solutions Architecture
❖ Installation
❖ Hardware Selection
❖ POC

Training

❖ Asset Management
❖ Inventory Tracking
❖ WMS
❖ RTLS

Software
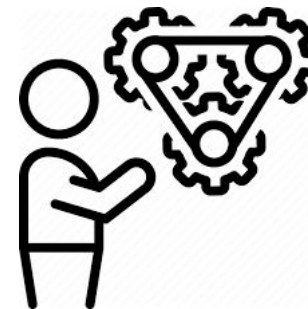
❖ Technical Support
❖ Warranty Spare management
❖ Extended Warranty Contracts
❖ AMCs/CMCs

Support

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CERTIFICATIONS/MEMBERSHIPS

Manufacturing under
MSME Licenses

ISO Certified

NABL Accredited
Test Certificates For
All Major Products

Registered With Small
Scale Industries

RFID Products
Global Certification

ID Tech Solutions Pvt. Ltd.

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Project Scope

A well known, Bank Branches handle a good quantity of Files and Packets for all its Property Loans and Gold Loan Dispersals.

For Gold Loans

Bank employee will weigh the Gold and Count the No. of item an put them in a packet. One will manually write the gold loan no, date and unique no, weight on the packet and will putt the gold loan packet in a plastic tray.

In one tray around 10-20 Gold Loan Packets will be placed. Bank personnel will count them manually and put them in a compactor or an Almira. All the data is updated manually in Flex 2 MIS.

For Property Loans

The Loan files are issued a barcode from the RMS Software. The files are put inside the Compactors/ Racks / Box. The Box is also issued a barcode. In certain cases the Property loan files are transferred from the branch to CPU and vice versa. The records are entered manually into the MIS.

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Pain Areas / Challenges

Manual Data Entry & Count

Time Taking Reconciliation Process

No Physical Identity of the Packet/File

No Data on The Life Cycle of the Packet/File

Prone to Manual Errors

ID Tech File Tracker Solution

ID Tech RFID solutions assist the BFSI Sector in tracking, tracing and counting of documents, files and folders within a facility and across different locations

Our Solution provides organizations with an automated way of identifying and counting Files/Documents in their Branches and HQs, Search for and transfer Files, Conduct Audit checks and expedite inventory checks, leading to improved efficiency, productivity and enhanced customer service

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| Reconciliation in Minutes | Shelf/Racks Management | Locate Misplaced Files | Auditing | Theft Protection |

Need of RFID

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Increase Efficiency

Reduce Data Entry Error
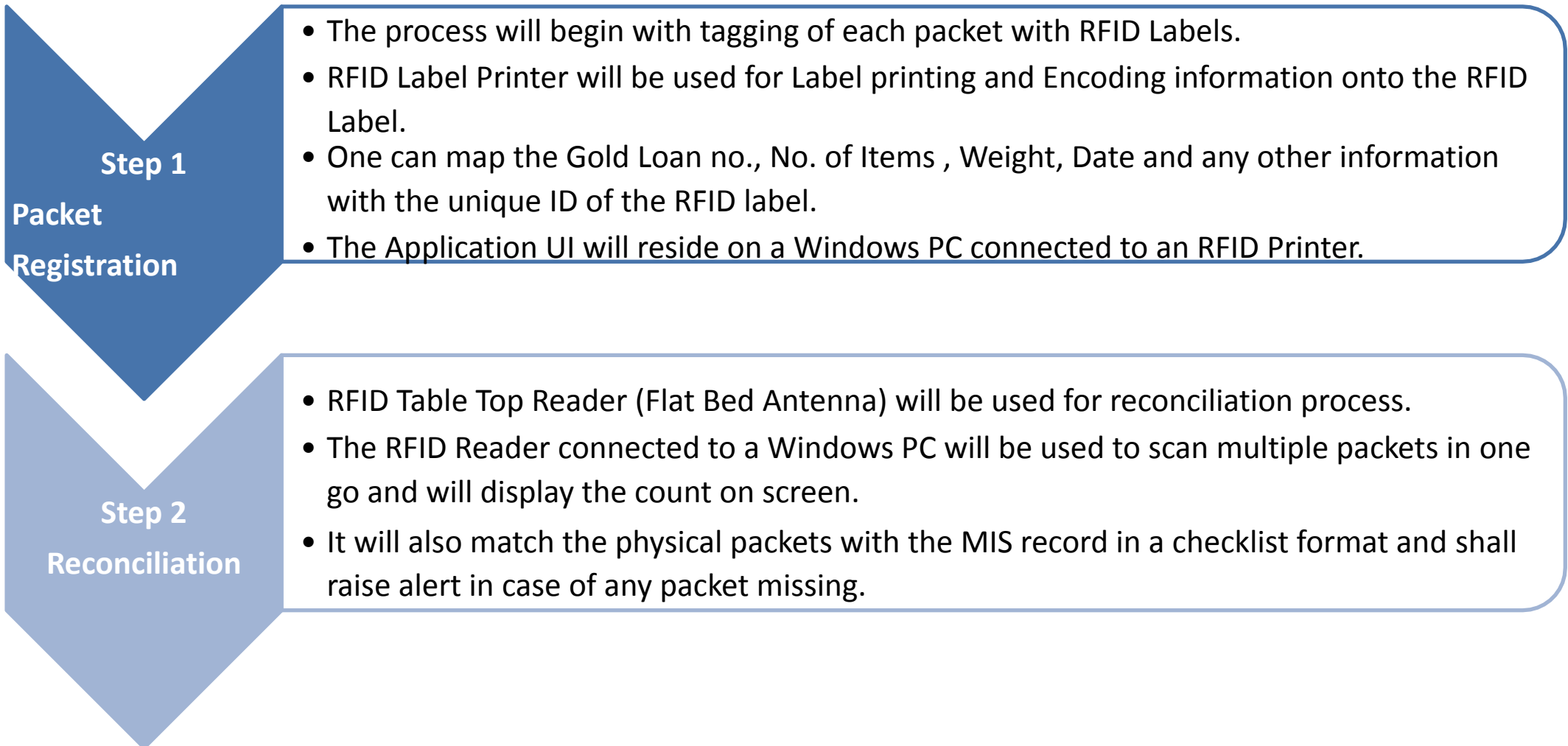
Decrease Manual Labour

Free staff to perform more value added functions

Advantages of RFID Over Barcode

Sr. no	RFID	Barcode
1	RFID does not require line of sight.	It require line of sight because scanner must have oriented properly.
2	Once RFID tags are set up; it can be run with minimal human participation.	They are very labor intensive; as they must be scanned individually
3	Memory storage is possible in RFID with assist of tags.	Memory storage is not possible in barcodes.
4	Several RFID tags can be examined simultaneously i.e. multiple read is allowed in RFID	Only a single barcode can be scanned at a time i.e. one card can be read at a time.
5	RFID contain high levels of security; data can be encrypted, password protected.	Barcodes have less security than RFID; as they can be more easily reproduced or forged.
6	RFID tags are more reusable and rugged as they are protected by a plastic/paper cover.	If a barcode is ripped or damaged there is no way to scan the product

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Solution Proposed

Step 1

Packet Registration

- The process will begin with tagging of each packet with RFID Labels.
- RFID Label Printer will be used for Label printing and Encoding information onto the RFID Label.
- One can map the Gold Loan no., No. of Items , Weight, Date and any other information with the unique ID of the RFID label.
- The Application UI will reside on a Windows PC connected to an RFID Printer.

Step 2

Reconciliation

- RFID Table Top Reader (Flat Bed Antenna) will be used for reconciliation process.
- The RFID Reader connected to a Windows PC will be used to scan multiple packets in one go and will display the count on screen.
- It will also match the physical packets with the MIS record in a checklist format and shall raise alert in case of any packet missing.

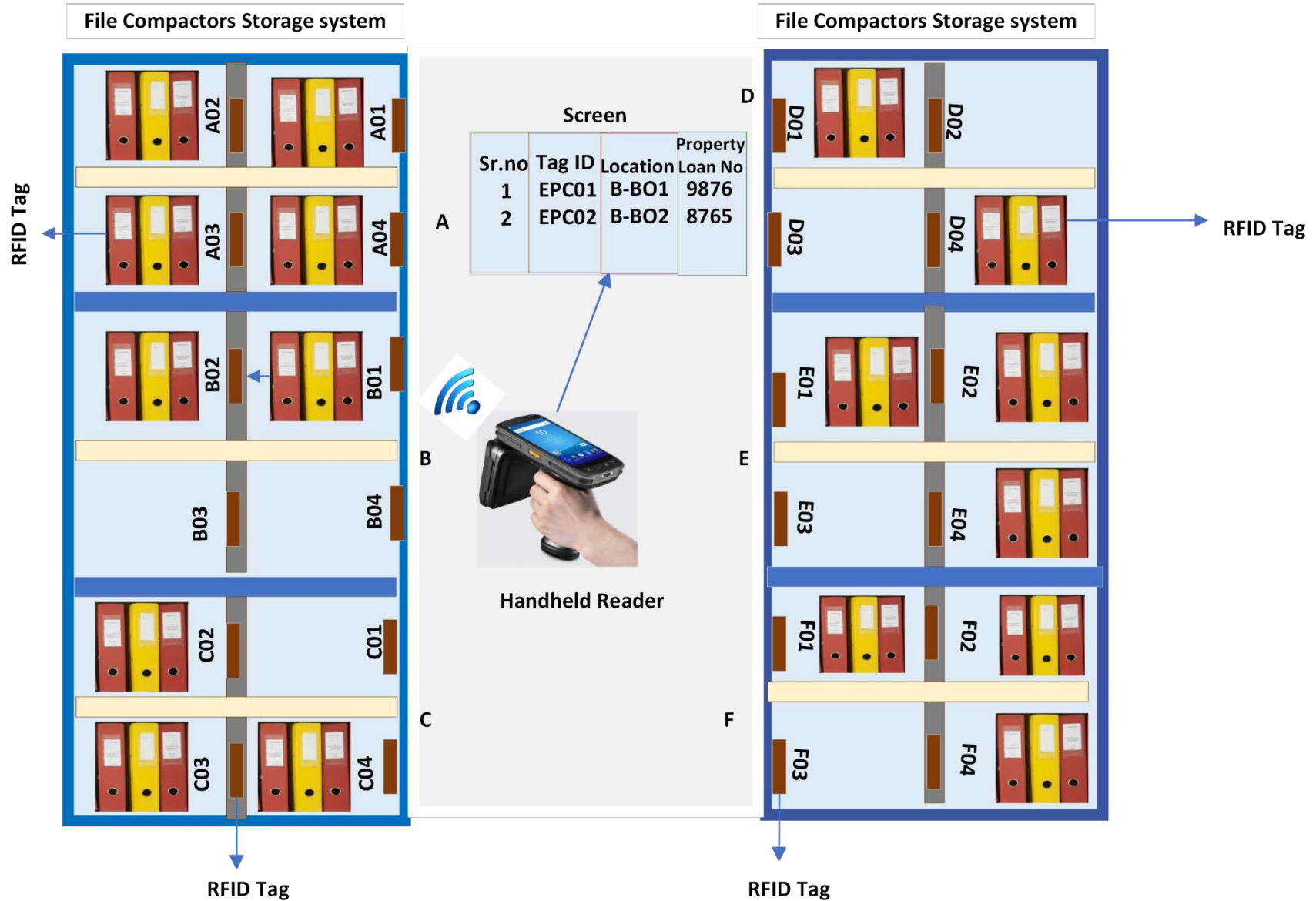ID Tech Solutions Pvt. Ltd.

Solution Proposed - Contd.

Step 3
Searching

- RFID Handheld reader will be used when in need of a particular Gold loan packet in particular location.
- The search function allows search through loan number or unique no. by which the packet can be identified
- The RFID Handheld Reader is an Portable Mobile connected wirelessly to the Application System which can scan the packets from a distance & help you find out a packet.
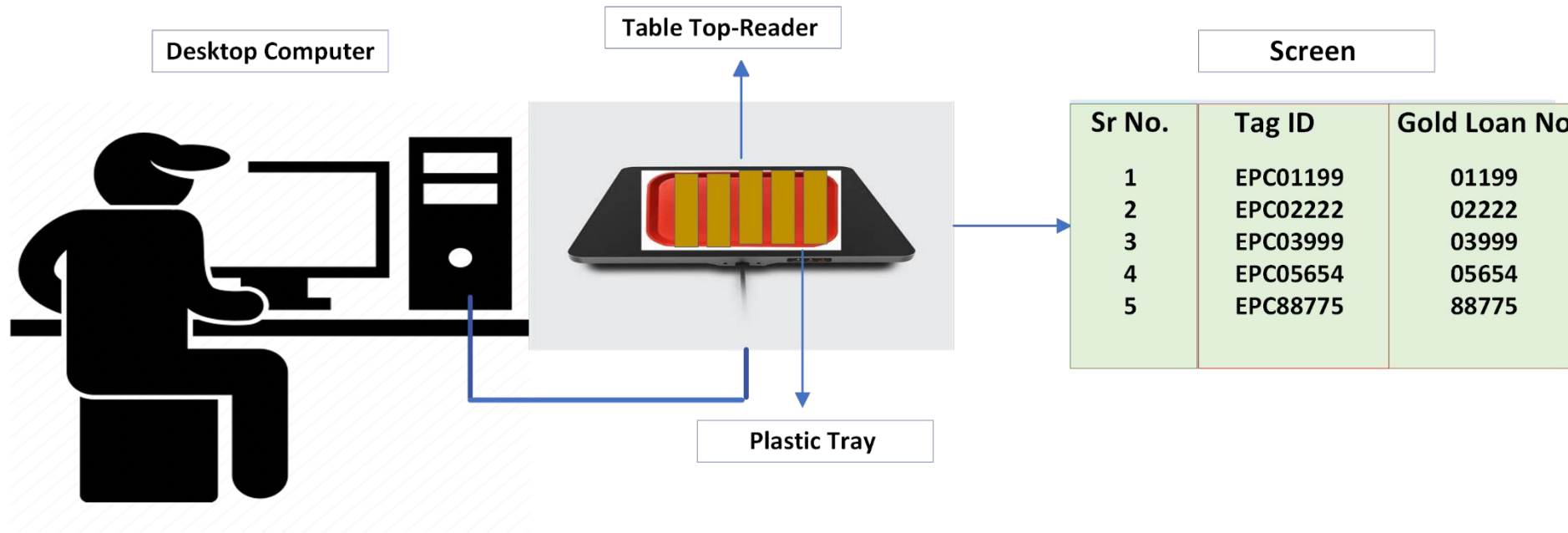
Step 4

Identify &

Tray

Mapping

- As an Optional Step, the system can also map Trays and Almira/Defenders with the Gold Loan packets.
- This shall offer more precise data in terms of the location of Gold Loans Packets and its storage location.
- A combination of RFID Handheld Reader and Table Top RFID Reader will be used for this process.

Representation - Property

Representation – Gold Loan

Desktop Computer

Table Top-Reader

Plastic Tray

Screen

Sr No.	Tag ID	Gold Loan No
1	EPC01199	01199
2	EPC02222	02222
3	EPC03999	03999
4	EPC05654	05654
5	EPC88775	88775

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Key Components

RFID Labels

RFID Polyester Labels
White Face stock
Size: Customizable
(4 * 1 inches)
Permanent Printing

Tagging of Files

RFID Handheld Readers

RFID Android Device
Touch Screen
5.5 inch Display
Wi-Fi / GPRS Inbuilt

Identify , Search ,
Inventory Operations

RFID Table

RFID Table
Top Reader
Wide Surface
Area Multiple Tag
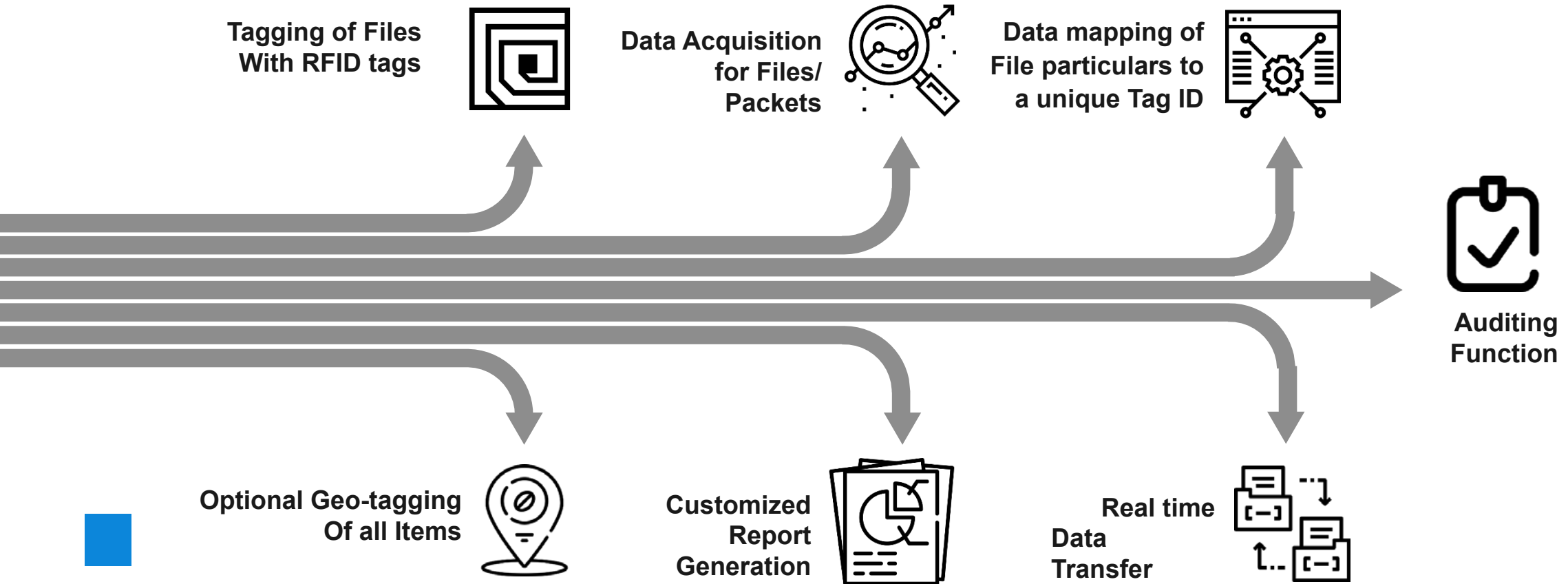Scanning
Wired/ Bluetooth

Reconciliation

RFID Location Tags

RFID Hard Tags
For Trays,
Almira,
Defenders,
Compactors
Location
Identification &
File Mapping

Features *Application Software*

Tagging of Files With RFID tags

Data Acquisition for Files/ Packets

Data mapping of File particulars to a unique Tag ID

Auditing Function

Optional Geo-tagging Of all Items

Customized Report Generation

Real time Data Transfer

Advantages

Efficient

RFID tags can be read at a faster rate than barcodes; as approximately 40 RFID tags can be read at the same time. Also, it can be run with minimal human participation.

Fast and time saving

Whether annually, monthly semi-annually, or technology can speed audit time allowing staff to focus on higher-priority tasks.

Secure

RFID contain high levels of security; data can be encrypted, password protected or set to include a 'kill' feature to remove data permanently.

Line of Sight not required

A Line of Sight is generally not required for an RFID Reader to read a tag unlike a Barcode.

Error free

Using a Tag and Reader is a simpler, more accurate method of conducting audits and maintaining inventory. It reduces human error by removing the number of steps involved in cataloging assets.

Duplicity is not possible

Applicable In Inventory, Searching, Management, Identification

Whether annually, semi-annually, monthly or weekly, using technology can speed audit time allowing data center staff to focus on higher-priority tasks

TOP CUSTOMERS

ID Tech Solutions Pvt. Ltd.

THANK YOU

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