ICT Applications in Library Services
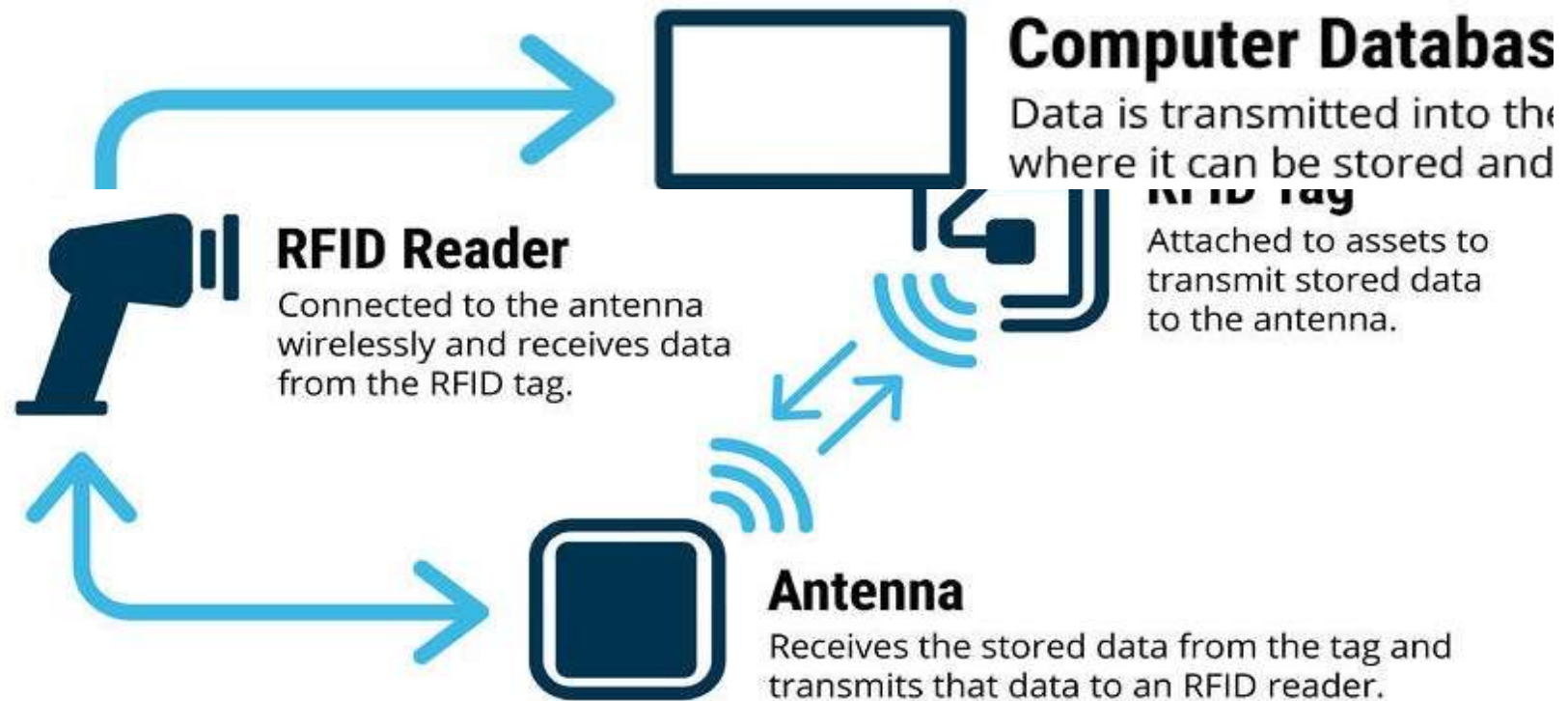
Unit 4
RFID- Meaning, Need and Components
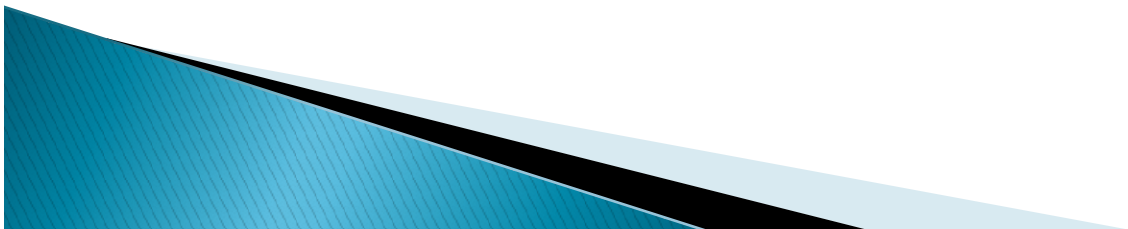
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Basic RFID System

Computer Databas

Data is transmitted into the
where it can be stored and

RFID Reader

Connected to the antenna
wirelessly and receives data
from the RFID tag.

RFID Tag

Attached to assets to
transmit stored data
to the antenna.

Antenna

Receives the stored data from the tag and
transmits that data to an RFID reader.

RFID

RADIO FREQUENCY IDENTIFICATION

- RFID is a combination of radio frequency based technology and microchip technology. The information contained on microchips in the tags affixed to library material is read using radio frequency technology.

Components of RFID system

- A RFID system for environment consists of following components

- Tags

- Readers

- Middleware

- Host computer

- Application software

Need of RFID in Libraries

- Fastest, easiest, most efficient way to track, locate and manage library materials.

- Efficient book circulation management.

- Automatic check-in and check-out.

- Library inventory.

- Multiple books can be read simultaneously.

- Avoid duplication

- Facilitate inter library and intra library borrowing.

THANKS