

10 Step Implementation Strategy for RTI Tracking

- 1 Determine whether RTIs stay internal or move externally.**

If RTIs remain inside one facility, your read zones may focus on production areas, storage locations, wash stations, or dock doors. If RTIs leave your building, talk with logistics partners, suppliers, distributors, or customers about how RFID data can be captured across the
- 2 Map how RTIs move.**

Identify where containers enter the building, where they exit, where they dwell, and where they are most likely to be lost or delayed. These movement points help determine the best read zones, such as dock doors, receiving areas, production line transitions, staging areas,
- 3 Select the right RFID tag for the asset.**

Consider the RTI material, surface type, environment, and handling conditions. Many RTIs are plastic, but some may be exposed to moisture, sunlight, chemicals, outdoor storage, high temperatures, or rough handling. If containers are stacked, nested, tossed, washed,
- 4 Design the read zones carefully.**

Fixed readers and antennas need to be positioned based on the desired read area, traffic flow, tag orientation, and surrounding materials. A dock door portal may require a different antenna setup than a conveyor, doorway, storage area, or work cell.
- 5 Plan how the data will be used.**

RFID data only becomes valuable when it supports a business process. Determine whether the data needs to flow into an ERP, WMS, asset management system, inventory platform, or custom dashboard. Teams should define what events matter, such as checked in, checked
- 6 Evaluate software and integration needs.**

If your team does not have internal software engineering resources, a software provider like Avancir can help define how RFID data should be collected, processed, and integrated into existing systems. This step is especially important when RTI tracking needs to connect
- 7 Start small and scale.**

Begin with one high-value read zone, such as a dock door, receiving area, or facility entrance. Tag a small group of RTIs, test read performance, validate the data, and refine the workflow before expanding to additional assets, locations, or partners.
- 8 Test before standardizing.**

Run a pilot that includes real RTIs, real movement patterns, and real environmental conditions. Confirm that tags remain attached, reads are consistent, data is accurate, and employees can follow the process without added friction.
- 9 Create a process for exceptions.**

Even strong RFID systems need a plan for missed reads, damaged tags, untagged containers, duplicate records, or assets that leave the expected workflow. Defining exception handling early makes the system more reliable as it scales.
- 10 Roll out in stages and measure results over time.**

Create a phased implementation strategy and track improvements in RTI recovery, utilization, replacement spend, dwell time, and reporting accuracy. These metrics help prove ROI and identify where the next phase of the deployment should go.