



RFID Deployment Packages: Pilot to Enterprise Rollout

IMPLEMENTING RFID TECHNOLOGY FROM
SMALL TESTS TO FULL SCALE

Deployment Package Framework



RFID Deployment Package Approach

Structured Scalable Implementation

The approach breaks RFID deployment into clear, scalable packages aligned with organizational readiness and budget.

Technology-Agnostic Flexibility

Deployment packages are platform-independent, supporting SaaS, on-premises, or hybrid models for flexibility.

Consistent Repeatable Process

Standardized deployment playbooks and governance ensure repeatability and auditability across sectors and sites.

Pragmatic Pathway to Scale

Organizations can start small, quickly prove value, and confidently expand RFID deployments operationally.

Why a Package-Based Approach Works

Aligns with Organizational Planning

Package-based RFID deployment matches how organizations plan, fund, and execute initiatives within constraints.

Reduced Risk Through Phases

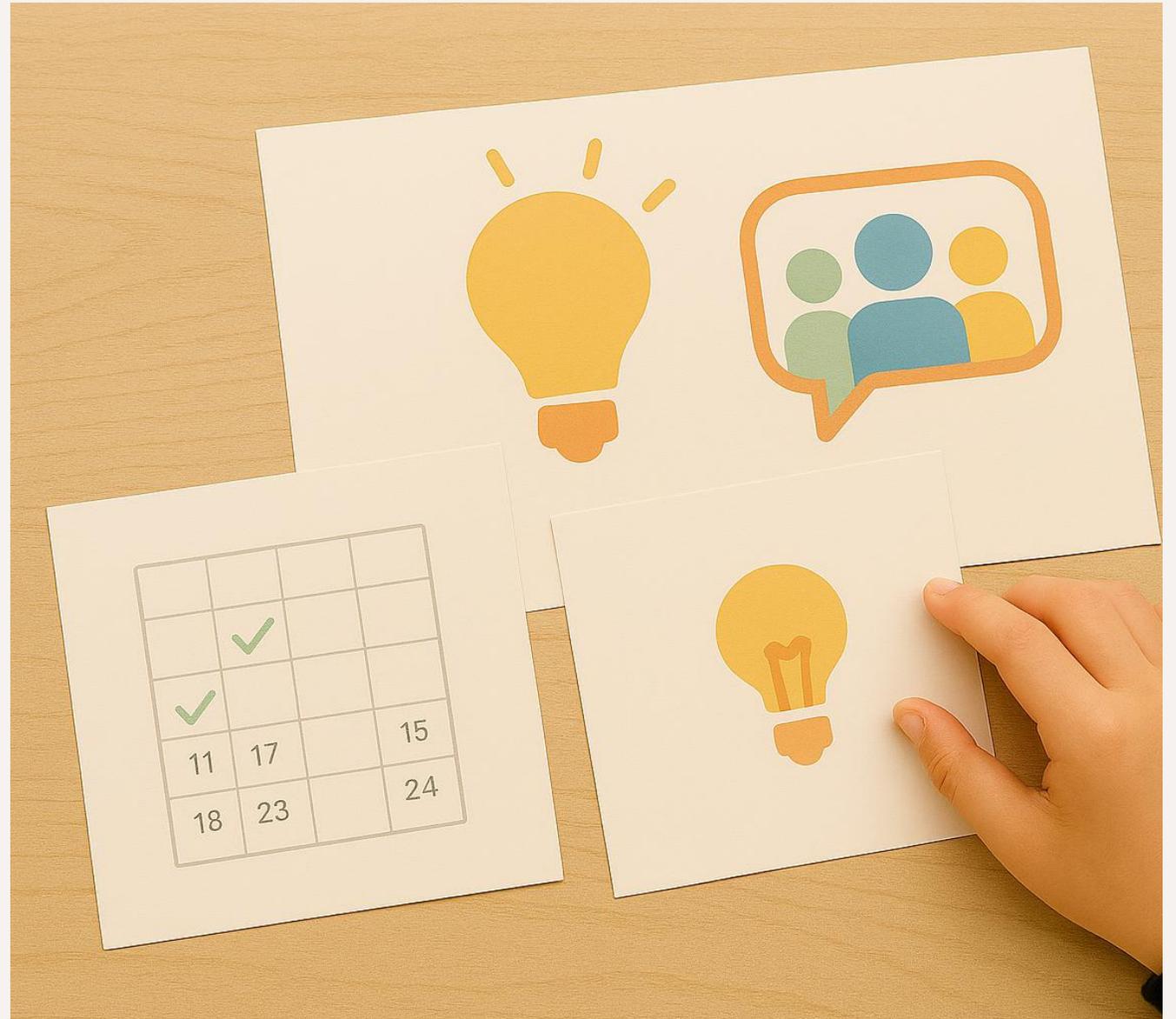
Deploying in small packages limits risk and allows validation before broader rollout.

Improved Predictability and Communication

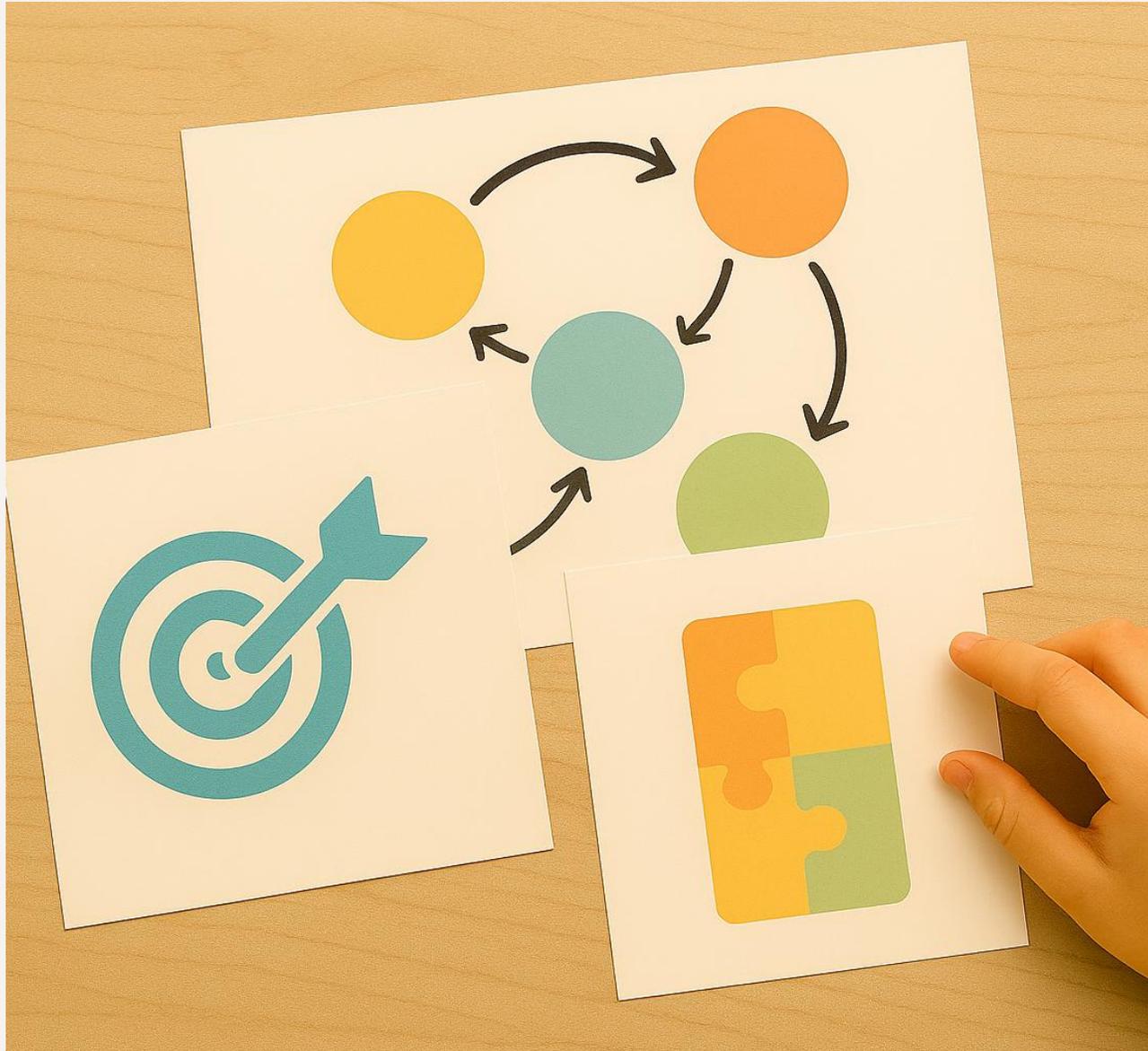
Clear deliverables and timelines make planning and internal communication easier across teams.

Supports Customer Understanding

Packages clarify scope and value for customers without focusing on pricing initially.



Deployment Package Tiers



Overview of Deployment Package Tiers

Pilot Tier Focus

Pilot tier validates assumptions on asset types, reader placement, workflows, and user interaction with limited scope.

Phase 1 Expansion

Phase 1 covers departmental or single site level enabling operational improvements and robust reporting capabilities.

Phase 2 Integration

Phase 2 extends visibility across multiple departments or campus with workflow automation and system integration.

Enterprise Scale

Enterprise tier delivers system-wide asset intelligence with analytics, governance, and multi-facility support.

Pilot Package: Scope and Outcomes

Targeted Operational Scope

The pilot targets a narrow but representative slice of operations to effectively measure RFID value.

Hardware and Software Components

The pilot uses minimal fixed and handheld RFID readers, passive tags, and basic software dashboards.

Comprehensive Services Included

Site surveys, reader installation, configuration, and initial training ensure successful pilot implementation.

Validated Pilot Outcomes

Confirmed read rates and asset movement insights prove RFID's value and support expansion decisions.



Phase 1 Package: Department or Single-Site Rollout

Expanded RFID Hardware

Phase 1 adds fixed and handheld RFID readers to cover more areas and support audits and workflows.

Enhanced Software Features

Dashboards, role-based access, and detailed reporting improve visibility and user management in Phase 1.

Integration and Services

Basic ERP or CMMS integrations streamline data flow; installation and training support wider adoption.

Operational Improvements

Phase 1 delivers reduced asset search time, improved inventory accuracy, and reliable audit data.



Phase 2 Package: Multi-Department or Campus Scale

Expanded Hardware Deployment

Phase 2 broadens RFID hardware with fixed readers and handheld devices across multiple departments or buildings.

Advanced Software Features

Multi-site dashboards, analytics, and workflow automation enhance operational visibility and efficiency.

Enterprise System Integrations

Deeper integrations with CMMS, ERP, and EHR enable automated status updates and data synchronization.

Operational Outcomes

Near real-time visibility improves coordination, reduces manual work, and supports organizational decision-making.



Enterprise Package: System-Wide Deployment

Enterprise-Scale Hardware

The package features an enterprise-wide RFID reader network and handheld devices for audits and mobile workflows.

Advanced Software Solutions

Includes advanced analytics, executive dashboards, and governance tools to support compliance and decision-making.

System-Wide Asset Tagging

Supports tagging thousands of assets across multiple categories within an organization-wide framework.

Integrated Data Ecosystem

RFID insights integrated into core business systems for continuous optimization and strategic asset management.





Common Elements Across Packages

Universal Deliverables Across All Packages

Site Survey and Readiness

Each package includes a site survey assessing layouts, RF conditions, and network needs to ensure deployment readiness.

Hardware Configuration

Hardware configuration and validation guarantee reliable operation of readers and tags in the deployment environment.

Platform Setup and Onboarding

Platform setup supports SaaS, on-premises, or hybrid models with standardized tag commissioning and user onboarding.

Training and Go-Live Support

Training tailored to user roles and go-live validation ensure smooth deployment and initial operational support.



Execution, Metrics, and Scale

Implementation Timeline Structure

Assessment and Readiness

Initial activities involve site surveys and stakeholder alignment to prepare for deployment effectively.

Hardware Installation

Deployment of readers and antennas follows the validated design to ensure proper hardware setup.

Platform Setup and Integration

Platform configuration and necessary system integrations prepare for data capture and testing phases.

Testing, Training, and Go-Live

User acceptance testing, training, and transition to operational use ensure system readiness and adoption.



KPIs and Success Metrics for Package Progression

Asset Tracking Accuracy

Asset read-rate accuracy measures RFID reliability, ensuring dependable tracking of assets in real-time.

Operational Efficiency Gains

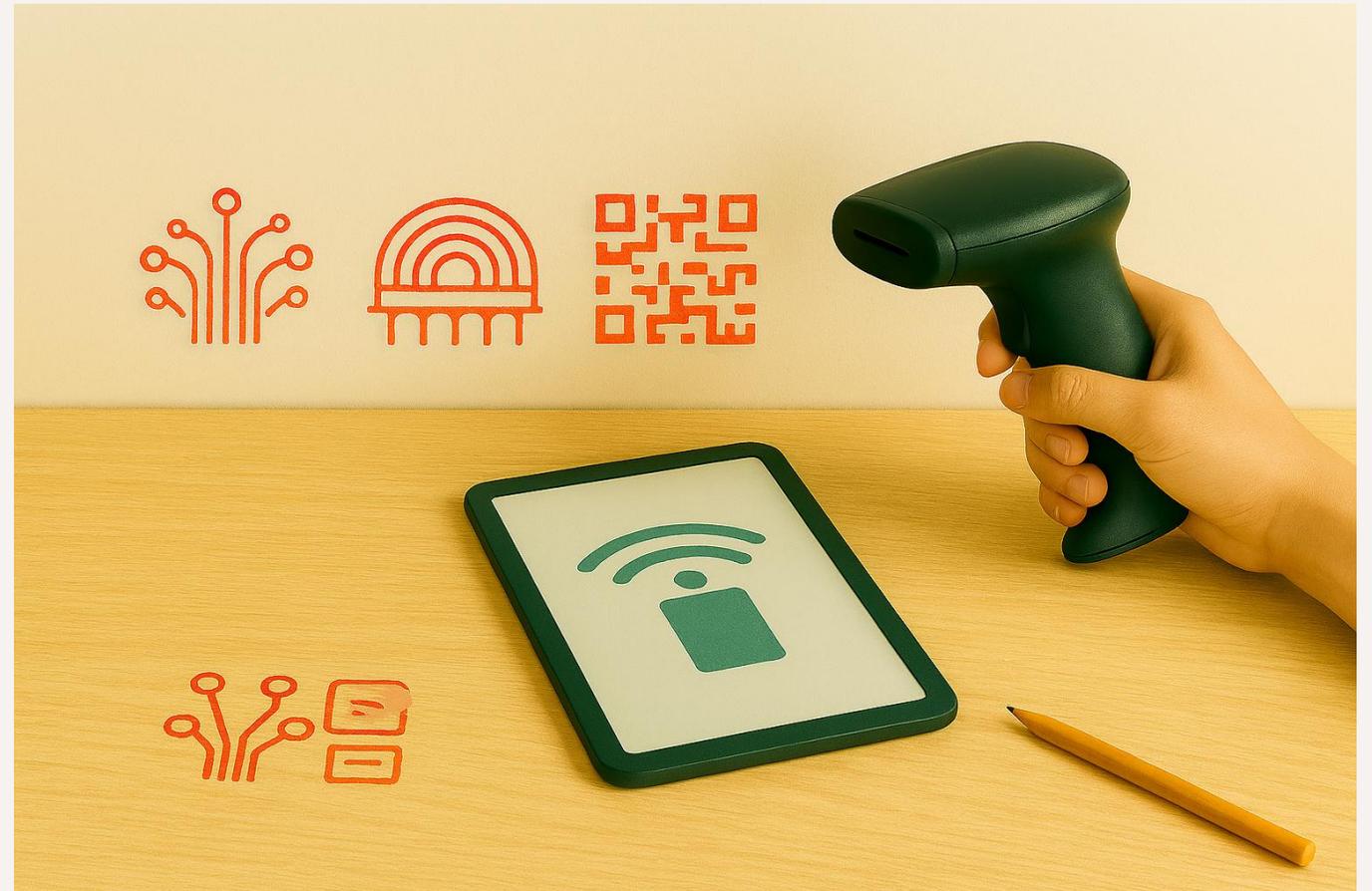
Reducing time spent locating assets demonstrates improved operational workflows and efficiency.

Inventory Accuracy and Loss Reduction

Enhanced inventory accuracy and lower shrinkage rates provide measurable value to asset management.

Audit and Compliance Efficiency

Faster audit cycles and streamlined compliance reporting are vital for regulated industries.



Scalability Path from Pilot to Enterprise

Pilot Phase Foundations

The pilot phase confirms technical feasibility and ensures RFID fits workflow needs within a limited scope.

Phase 1 Operational Embedding

Phase 1 integrates RFID into daily operations within a defined area, delivering standalone value.

Phase 2 Extended Visibility

Phase 2 expands RFID visibility and coordination across wider environments for improved management.

Enterprise Scale Unification

Enterprise phase unifies capabilities at scale with standardized deliverables and governance for smooth growth.





Package Tables: Hardware and Scope by Tier

Organizing hardware components and scope across tiers

Hardware Quantities and Scaling Assumptions



TIER	FIXED READERS	HANDHELDS	PASSIVE TAGS (APPROX.)
Pilot	1	1	200–300
Phase 1	~3	2	~1,000
Phase 2	~6	3	~3,000
Enterprise	~12–20	5–8	~8,000–15,000

Software, Services and Progression

TIER	SOFTWARE	SERVICES	MILESTONES
Pilot	Core dashboards, asset registry, movement alerts	Site survey, install & configuration, training, UAT	Read-rate baseline; training complete; sign-off
Phase 1	Multi-area dashboards, reporting, role-based access	Reader deployment, tagging support, workflow refinement	Stable operations; integration quality met
Phase 2	Multi-site analytics, automation, deeper integrations	Large-scale tagging, commissioning, monitoring	Dashboards adopted; automation tuned
Enterprise	Executive dashboards, analytics, governance tools	ERP/CMMS/EHR integration, lifecycle support	Governance approved; steady-state ops



Summary & Contact

Horizon IoT offers flexible deployment models—SaaS, On-Premises, and Hybrid—designed to meet the security, compliance, and operational requirements of agencies across Washington and Oregon under DES Contract 04618. Each model supports scalable RFID asset and inventory management while allowing organizations to choose the level of control, customization, and IT responsibility that aligns with their environment.

We are happy to walk through deployment options with our clients and help determine the best path based on their workflows, data governance policies, and operational goals.

Please feel free to reach out at any time.



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