National Animal Identification System (NAIS)

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USDA

Animal Tracking Component

Private and State Animal Tracking Databases (ATD)

Animal Trace Processing System (ATPS)

NAIS Guiding Principles

The system must be able to allow tracking of animals from point of origin to processing within **48 hours** without unnecessary burden to producers and other stakeholders.

The system's architecture must be developed without unduly increasing the **size and role of government.**

The system must be flexible enough to utilize existing technologies and incorporate new identification technologies as they are developed.

Animal movement data should be maintained in **private systems** that can be readily accessed when necessary by State and Federal animal health authorities.

Objective

To successfully integrate private and State Animal Tracking Databases with NAIS while supporting its goals to provide animal health officials with timely, complete and accurate traceback information.

Animal ID and Information Systems *are not* new to APHIS VS

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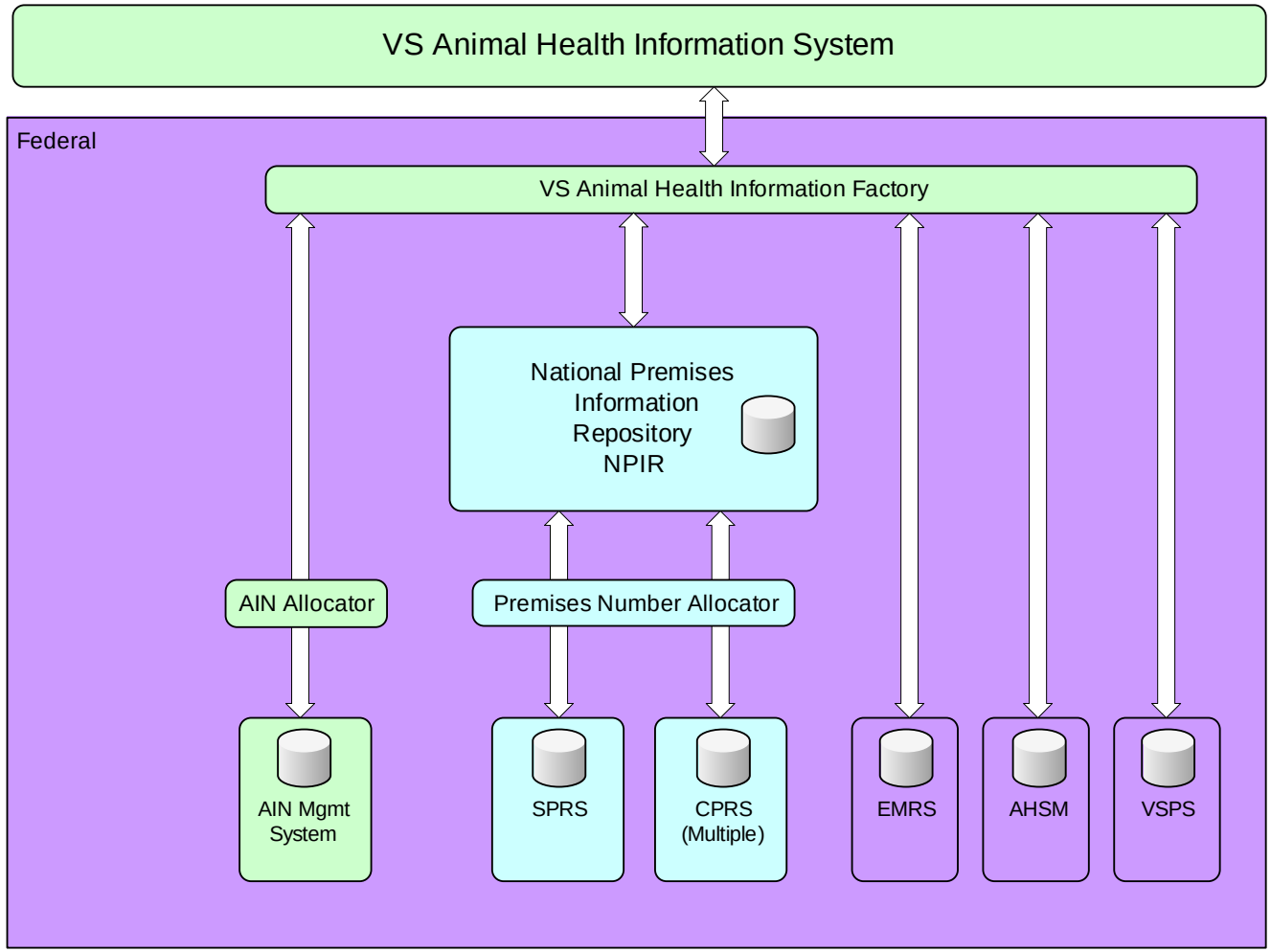
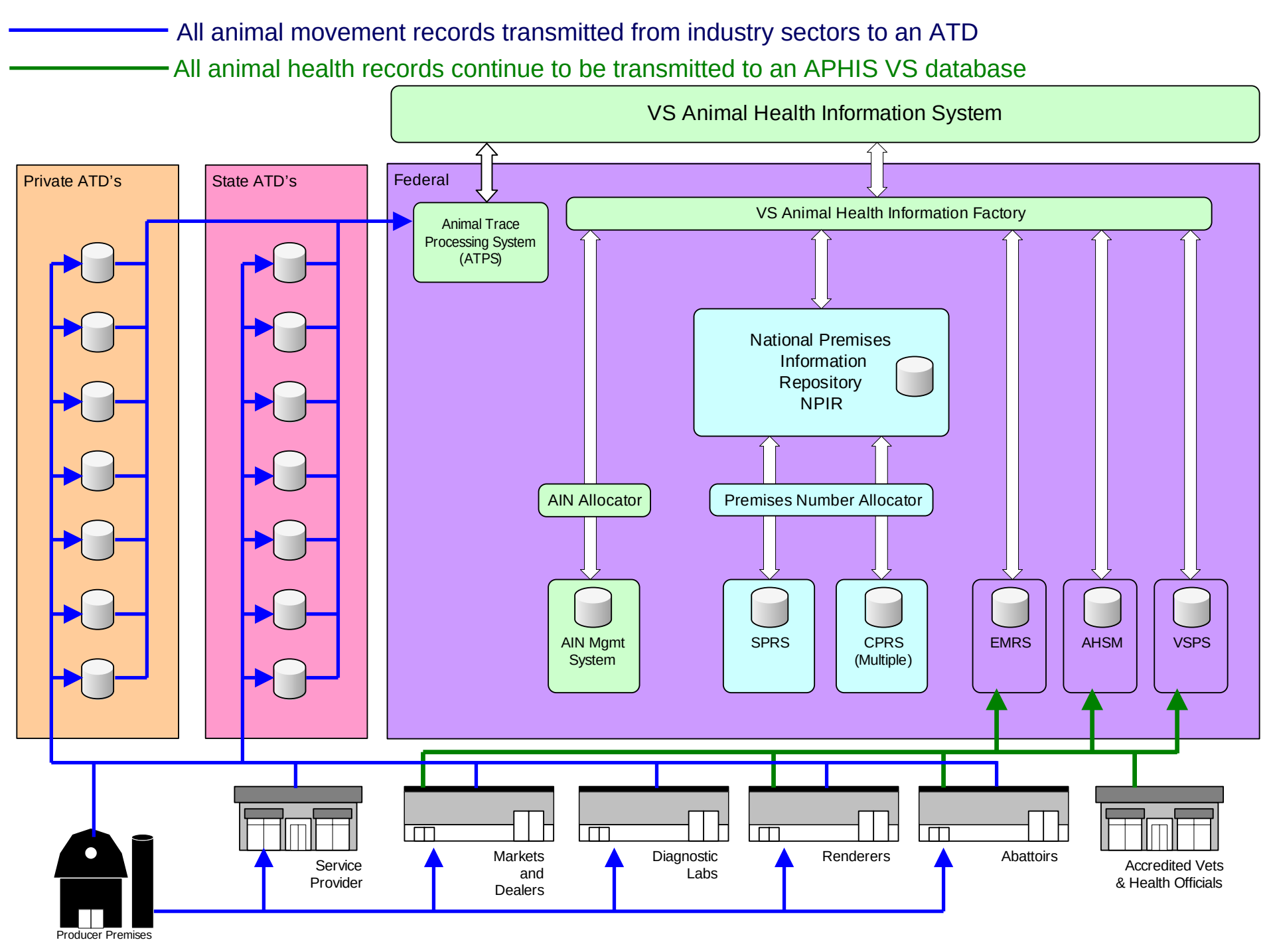
Existing Animal Health Databases in APHIS VS

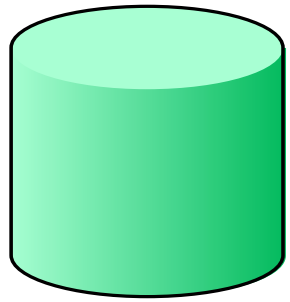


How VS Animal Health Systems "fit" with the Private and State Animal Tracking Database

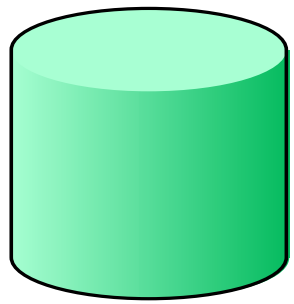

All animal movement records transmitted from industry sectors to an ATD
All animal health records continue to be transmitted to an APHIS VS database
VS Animal Health Information System
Private ATD's
State ATD's
Federal
Animal Trace Processing System (ATPS)
VS Animal Health Information Factory
National Premises Information Repository NPIR
AIN Allocator
Premises Number Allocator
AIN Mgmt System
SPRS
CPRS (Multiple)
EMRS
AHSM
VSPS
Service Provider
Markets and Dealers
Diagnostic Labs
Renderers
Abattoirs
Accredited Vets & Health Officials
Producer Premises

Animal Tracking

- **Animal Tracking Databases (ATDs)**
  - ❑ Maintained and operated by industry and States
  - ❑ Records and stores animal movement information



- **Animal Trace Processing System (ATPS)**
  - ❑ Known/referred to as the ATPS “portal”
  - ❑ Developed and maintained by USDA



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Critical Roles of the ATPS “Portal”

- Integrates Animal Tracking Databases with NAIS.
- Establishes communication link with ATD’s.
- Receives data from ATD’s during an animal health event (a regulatory or emergency disease).
- Limits use of the system to authorized State and Federal animal health officials.

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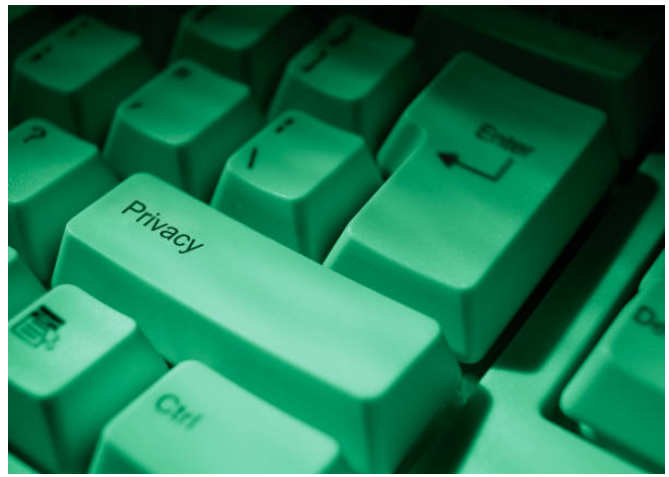
Security Concerns Addressed



- Secured system
  - Firewall
- Secured access
  - USDA Authorizes users
  - Animal health officials must have USDA Level 2 eAuthentication
  - Data encrypted (unreadable) during transmission
- All activity audited
  - Logging allows APHIS to oversee/monitor

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Data received from ATD's during a traceback

- **Mandatory data**
  - Animal identification number (AIN)
  - Premises identification number (PIN)
  - Event (move in / move out)
  - Date of event
- **Optional data**
  - Species
  - Date of birth
  - Gender
  - Other official ID numbers

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Animal Trace Processing System
Private/State Databases

- Interim/Development Phase
  - Organizations with systems that meet interim requirements may enter into agreement with USDA
    - Collaborate to define full IT requirements and design

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Interim Phase
Evaluation Process

- Download and complete application for a system evaluation
- Third party vendor is under a USDA contract to perform evaluations
  - ATD completes a detailed evaluation application
  - An onsite review and evaluation will be scheduled
    - IT System security
    - IT technical operational standards
    - Technical infrastructure
    - Data administration
  - Report with recommendation is sent to USDA:APHIS:VS
- VS forwards recommendation to Under Secretary
- Under Secretary will send an invitation to enter into a cooperative agreement

*Third party remediation plan for organizations that don't pass the evaluation

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Interim Phase
Evaluation Process Numbers

- 17 ATDs have completed the request to participate
- 14 ATDs have completed the detailed application
- 4 have been approved to date

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Interim Phase
Collaborative Design and Development

- Meeting regularly with ATDs
  - Combination of business and technical
  - Face to face at this conference
- Collaborative effort
  - Requirements and design document
  - Next stage (production)

*February 2007

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What is an Event

- A confirmed positive test for a foreign animal disease or emerging disease of concern
- An animal disease emergency as determined by the Secretary of Agriculture and/or State Departments of Agriculture
- A need to conduct a trace-back / trace-forward to determine the origin of infection for a program disease (brucellosis, tuberculosis, etc.).

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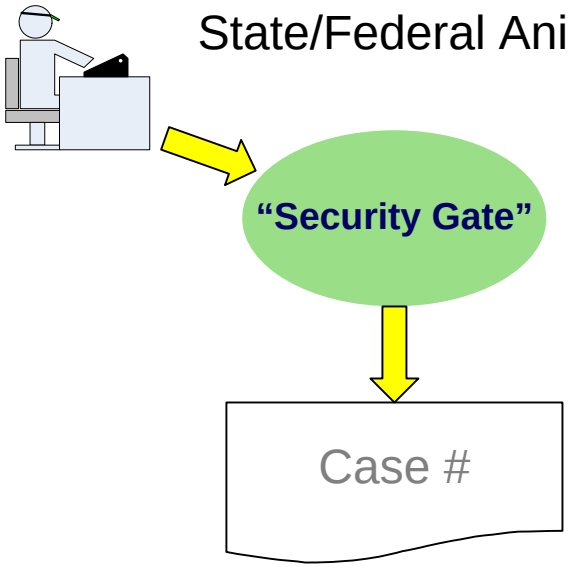
How the ATPS “Portal” operates

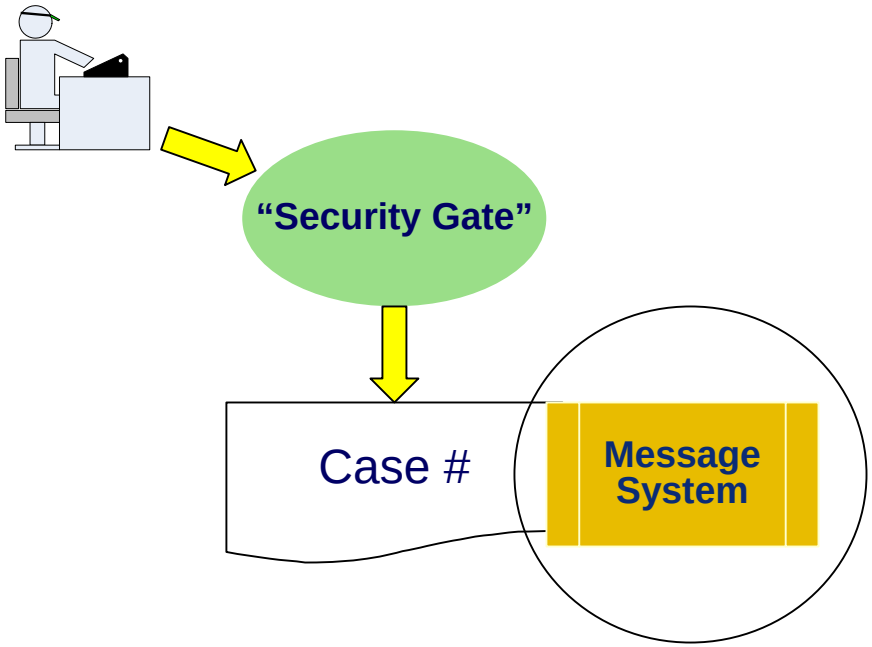
(query submitted for an EVENT)

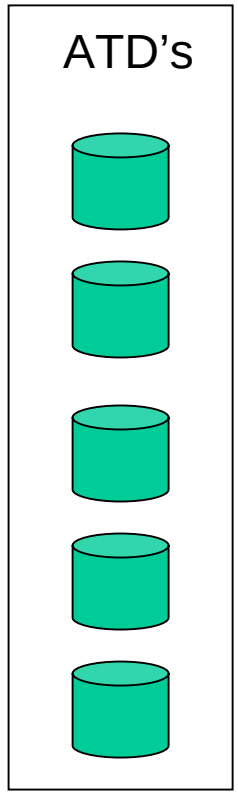


- Animal health official enters information request (disease event, animal and/or premises IDs, date intervals, etc.)
- System assigns a case number
- All investigation info stored by case number

How the ATPS “Portal” operates

(during an EVENT)

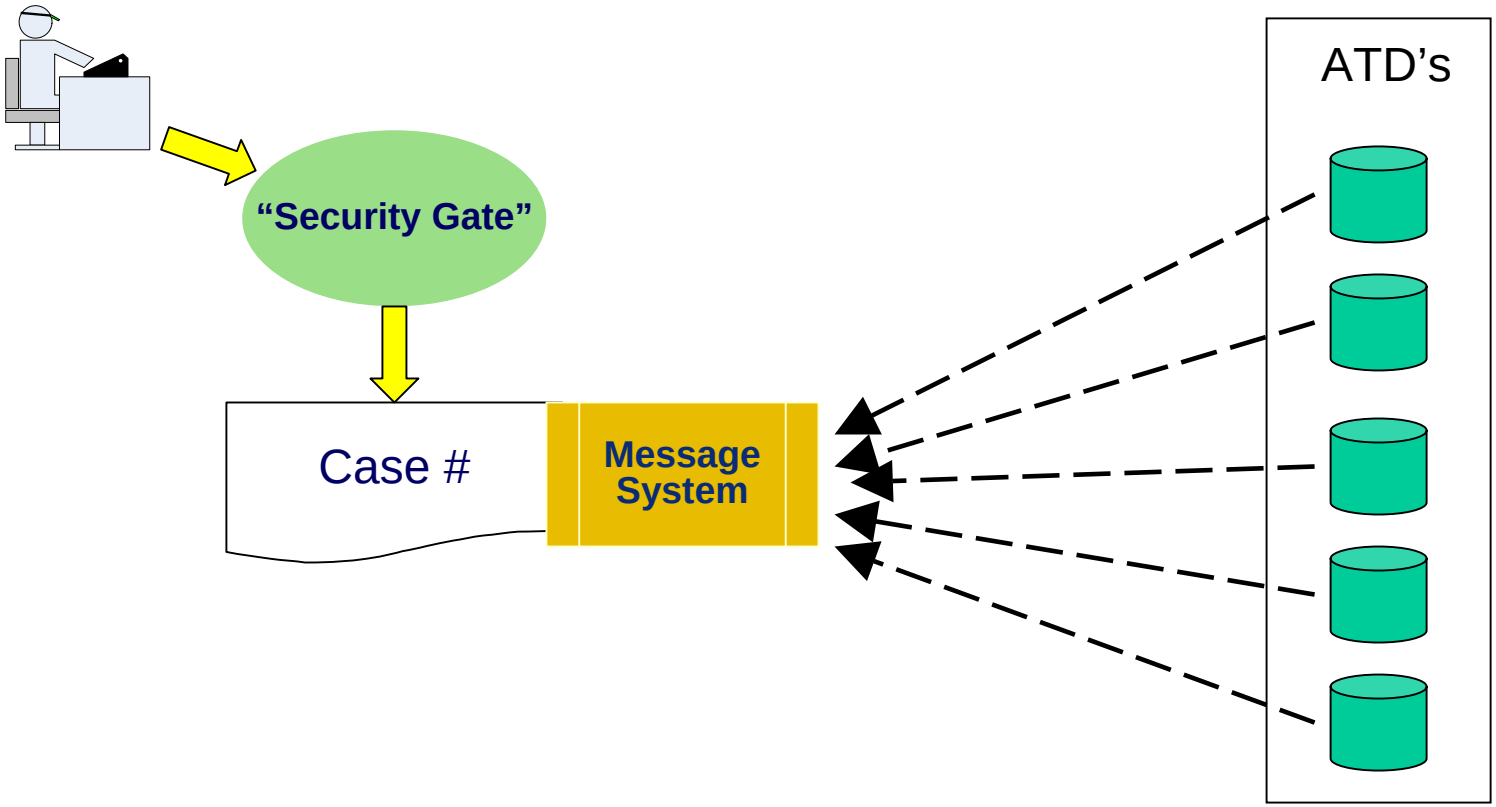




- The ATPS “Portal” posts requests for information to the messaging system
- **All** messages are for **all** ATD’s

How the ATPS “Portal” operates

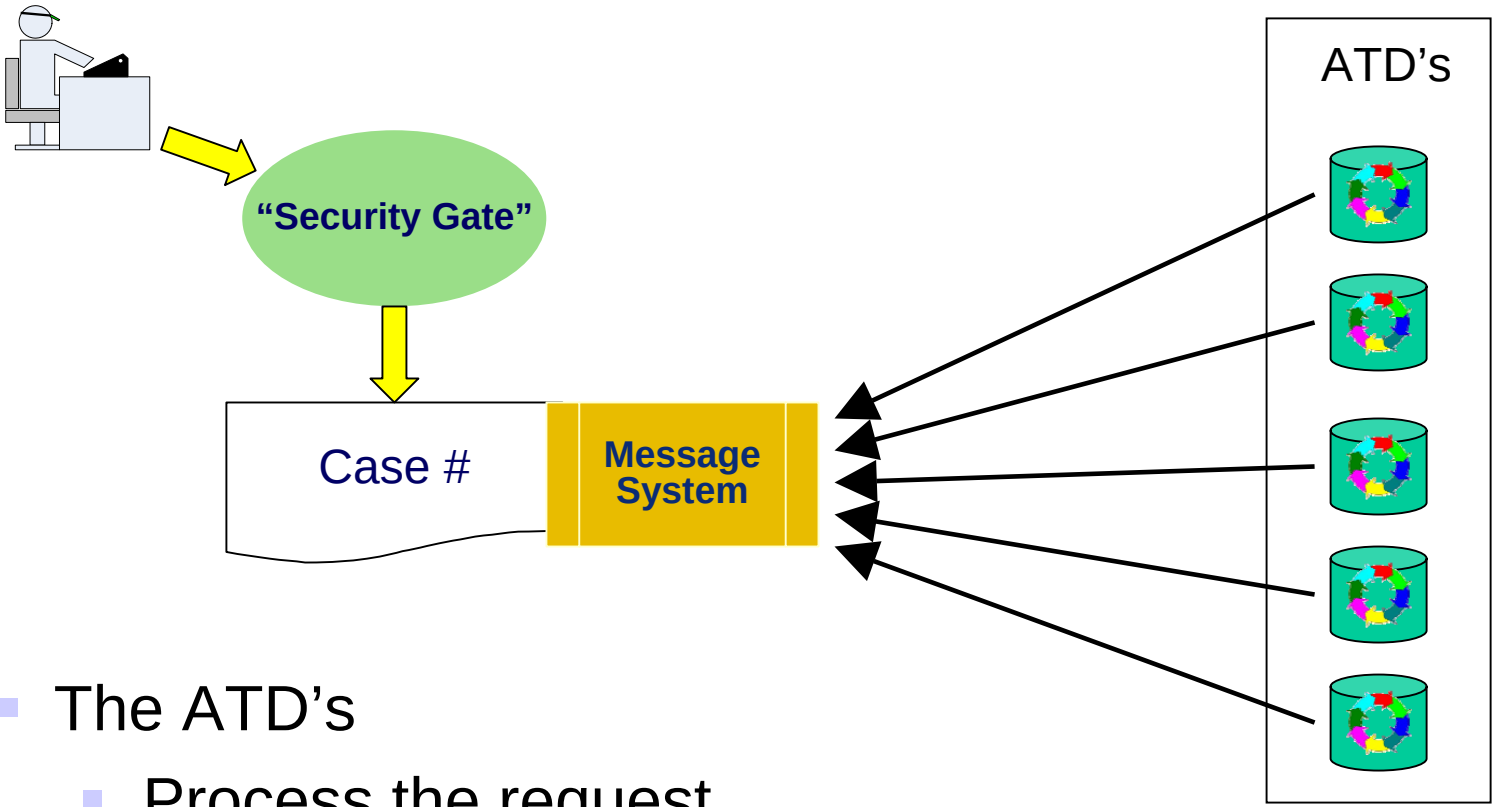
(during an EVENT)



- The ATD’s check Message System for requests for information every 15 minutes

How the ATPS “Portal” operates

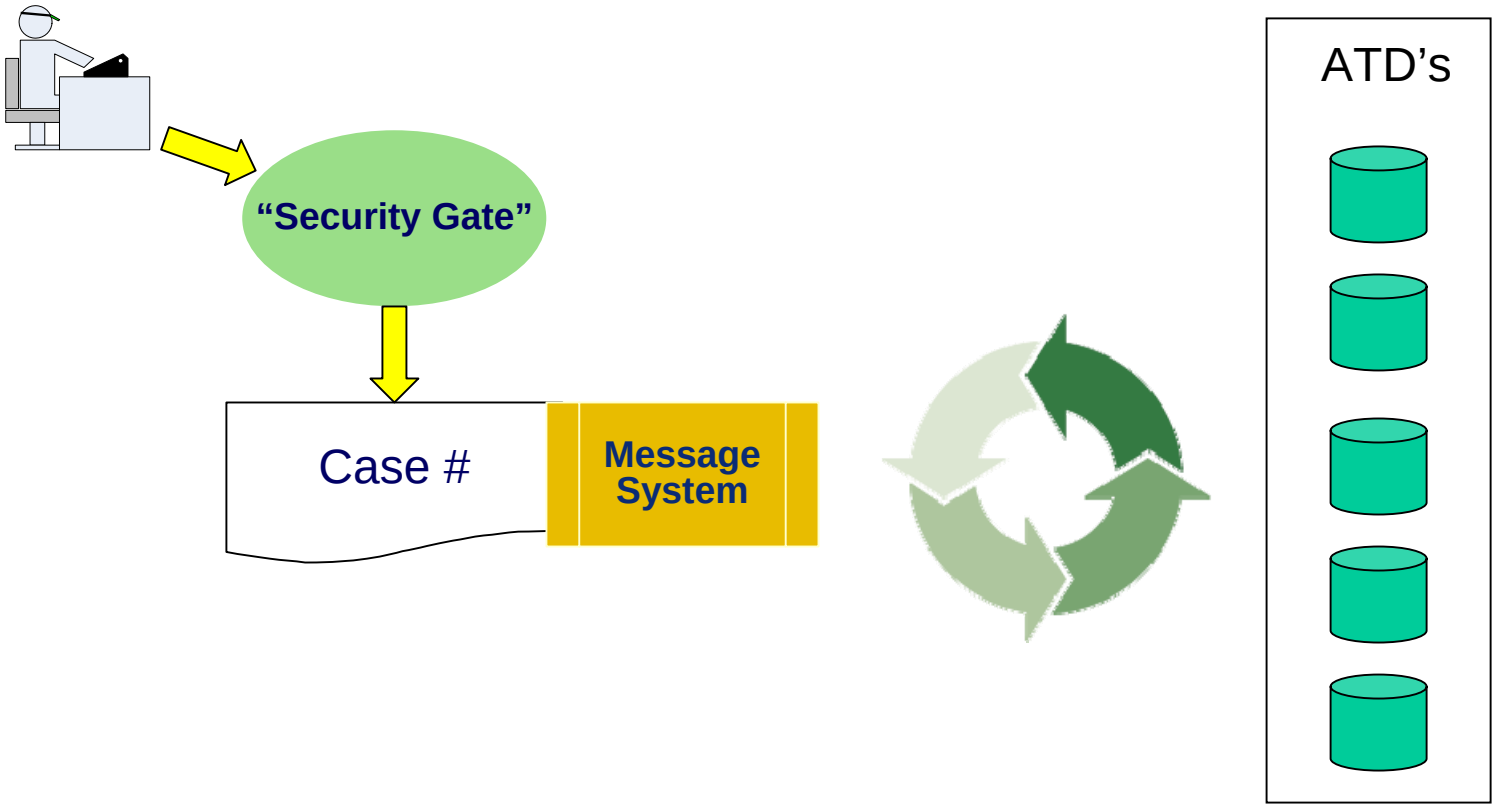
(during an EVENT)



- The ATD’s
  - Process the request
  - Post the requested information (or lack thereof) to the message system

How the ATPS “Portal” operates

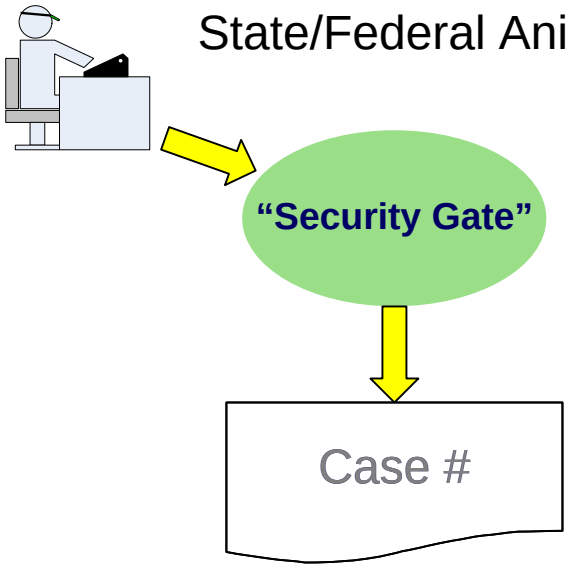
(during an EVENT)

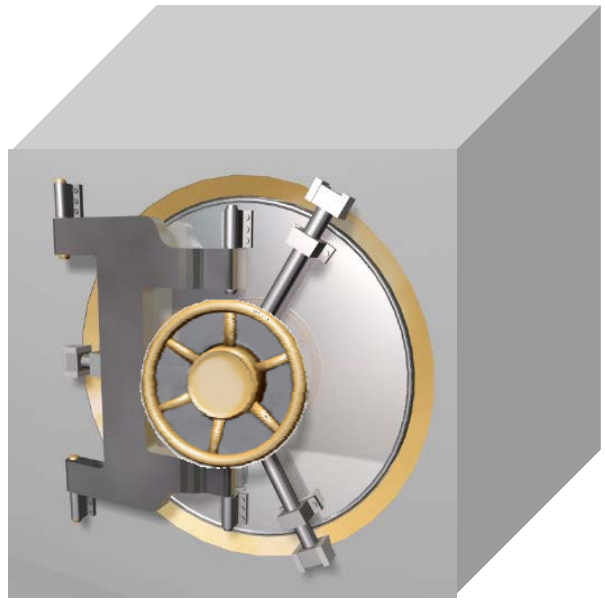


- Many repeated cycles will occur to build a complete case data set

How the ATPS “Portal” operates

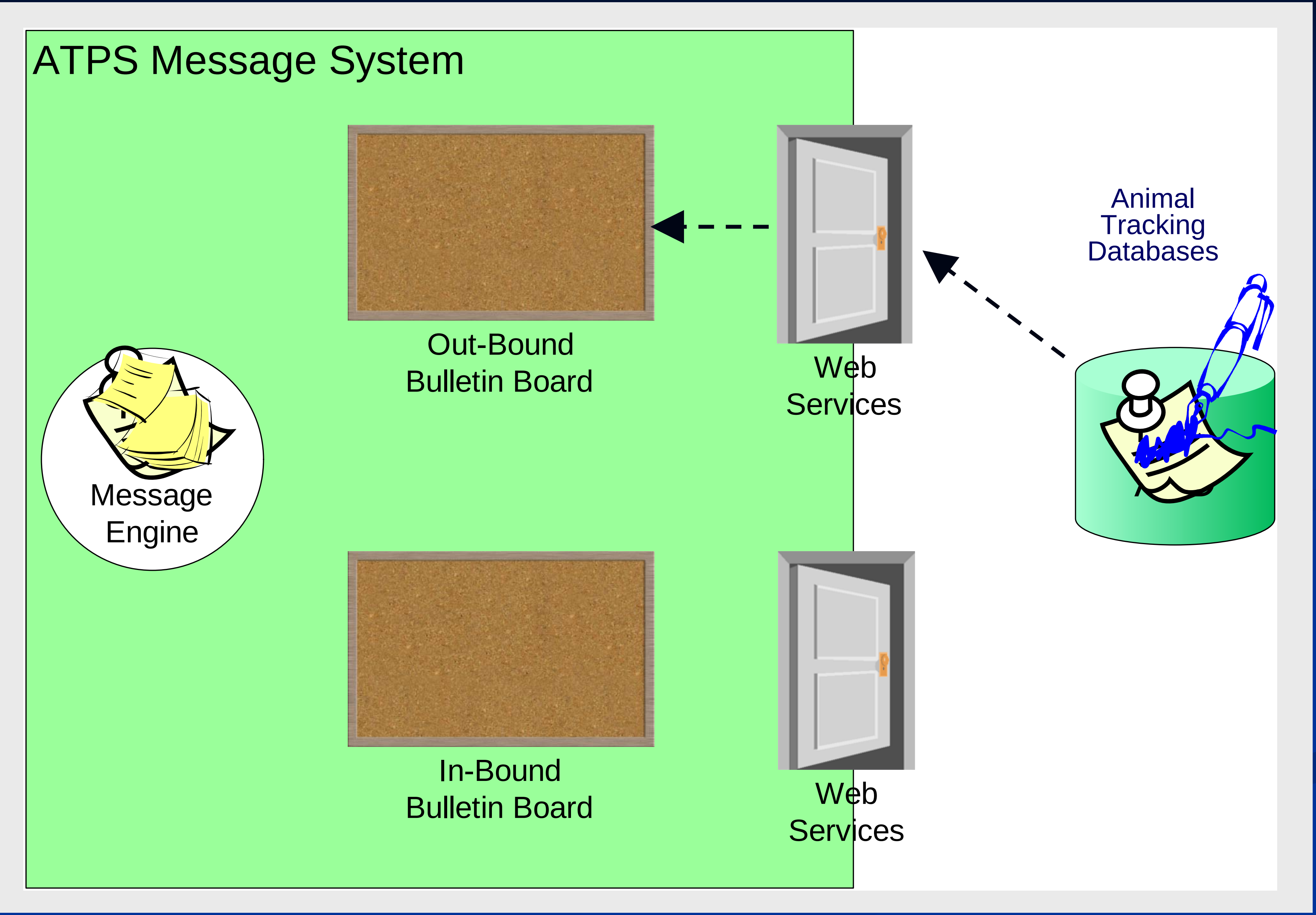
(during an EVENT)





- Upon completion of an EVENT
  - AHO will log on to ATPS
  - Case will be examined and evaluated
  - Case data set will be archived when case is closed

1. Animal Tracking Databases sends message
2. Message is posted by ATPS Services



ATPS / ATD Interface advantages

- Messaging
  - Robust
  - Low Maintenance
  - Efficient
- Web Services
  - Security
  - Interoperability
  - Independence

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ATPS

A project designed to deliver the third component of NAIS (animal tracking)

- Cooperative between private and government
- Access to system limited
  - Audit system
- Limited data set requested
- Data requested only if there is an event

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Questions ?

Thank you

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