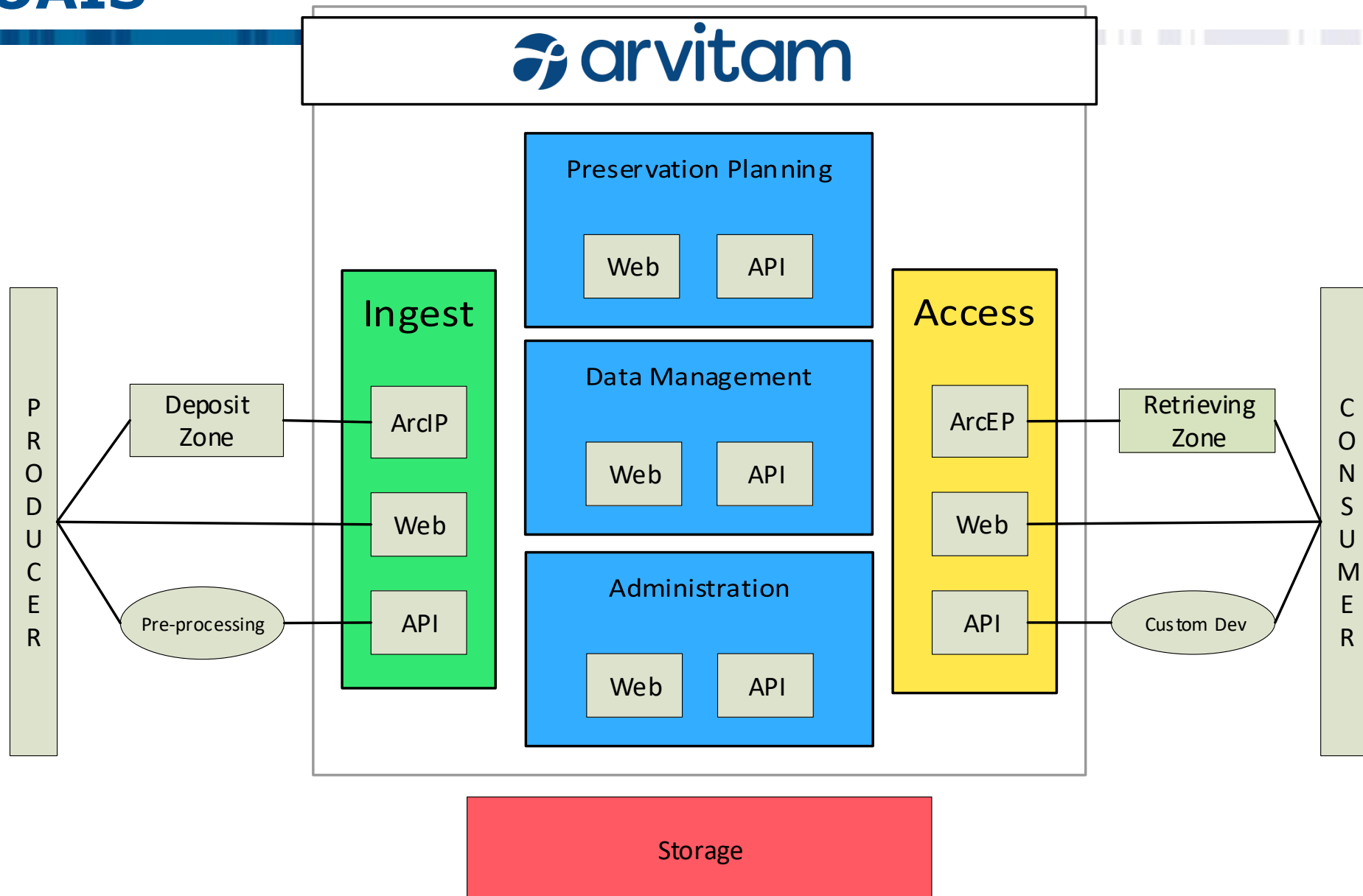




**Architecture**



# Core Components

## Database

- Hold configuration, metadata, storage policies, indexation policies, permissions

## Engine

- Commands the other components and handles the requests

## Transfer Server

- Handles access to storage and low level operations

## Application Agent

- Handles file processing, integrity checks, compression, etc...

## API

- Set of methods used internally and externally to pilot and use the system

## Web Agent

- Main interface for archiving, retrieval, configuration (stockage, indexation), end-user interactions

## Auto-archive Agent

- Logs and trace archiving tool to ensure the chaining of actions (evidentiary value)

# Additional Components

## File Format Server

- Handles file characterization and validation

## Proof Folder

- Generates proof folder via batch

## Arcsys FS Comparator

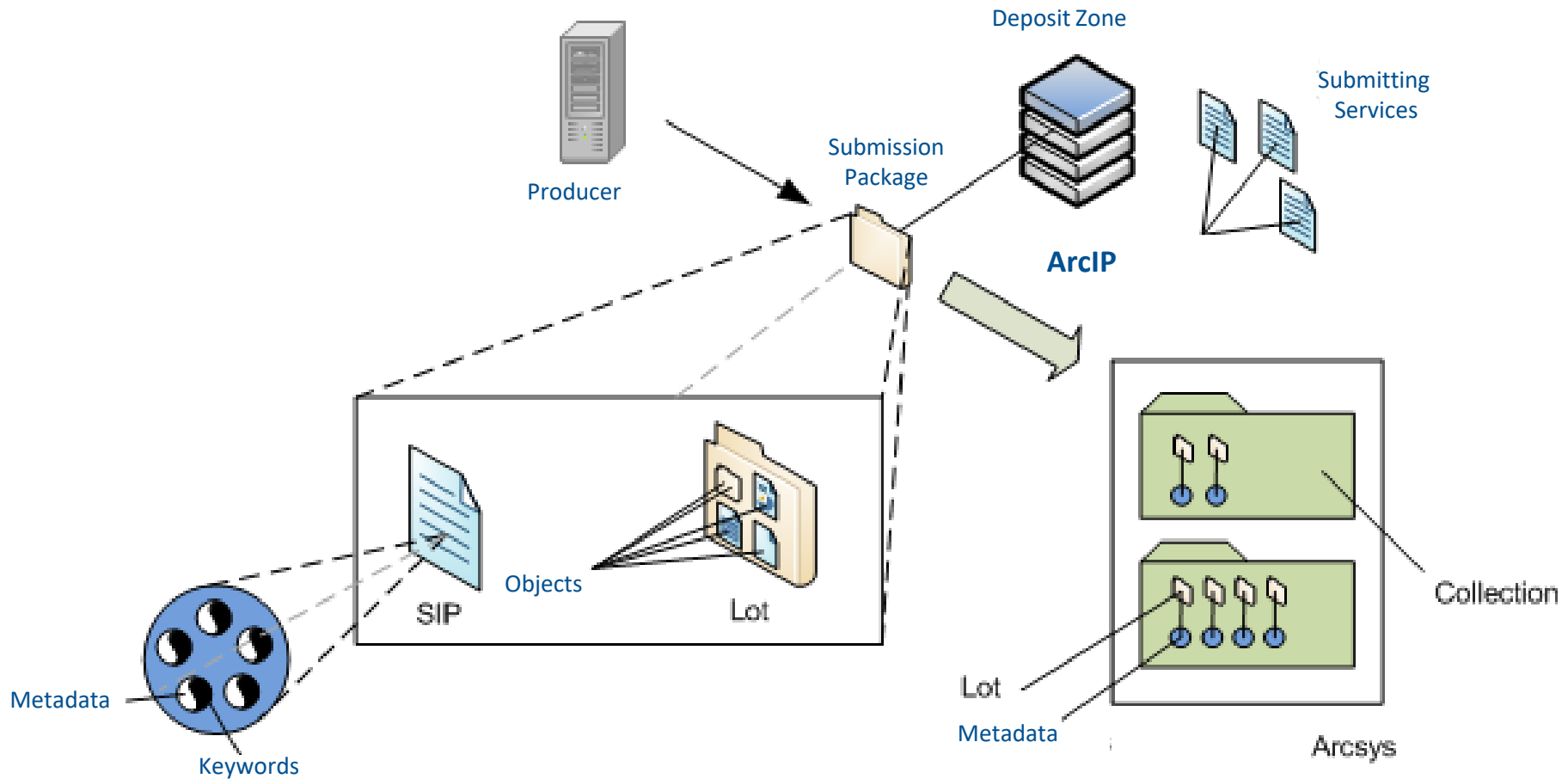
- Checks archive integrity

## ArcIP

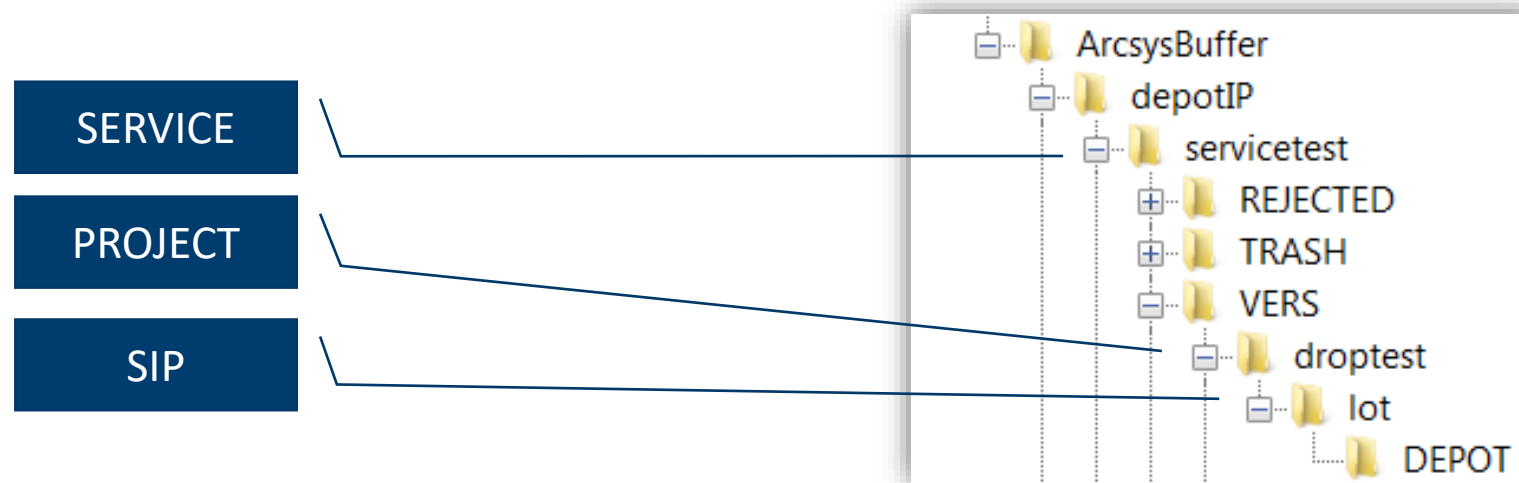
- Ingest utility

## ArcEP

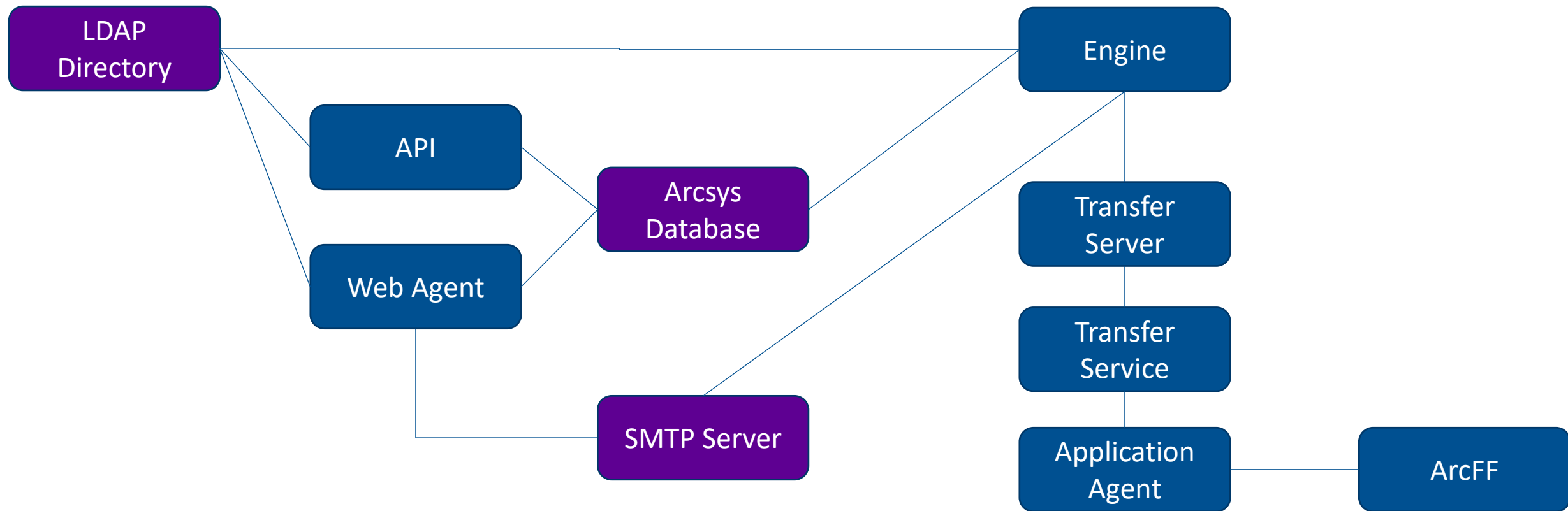
- Extract utility



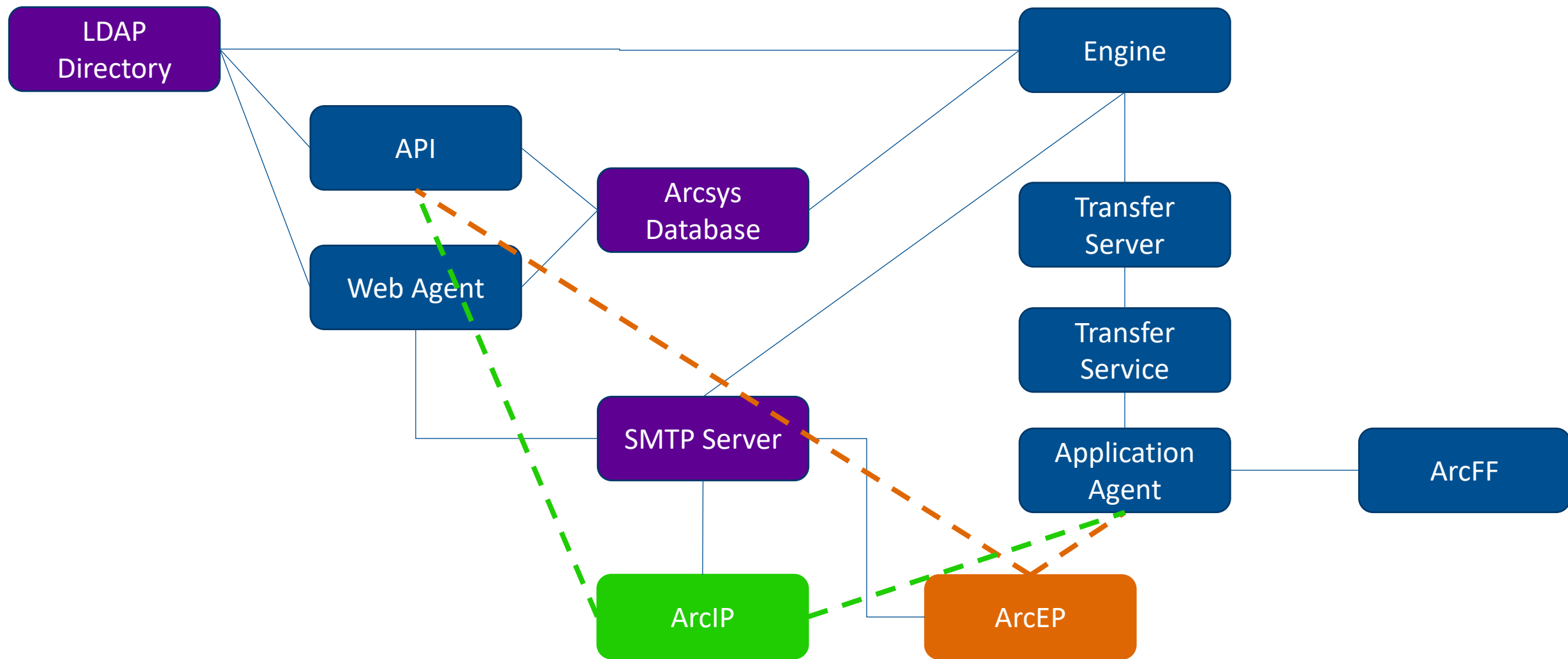
# ArcIP Deposit Zone Structure



# Arvitam Components



# Arvitam Components



# Arvitam data replication and disaster recovery

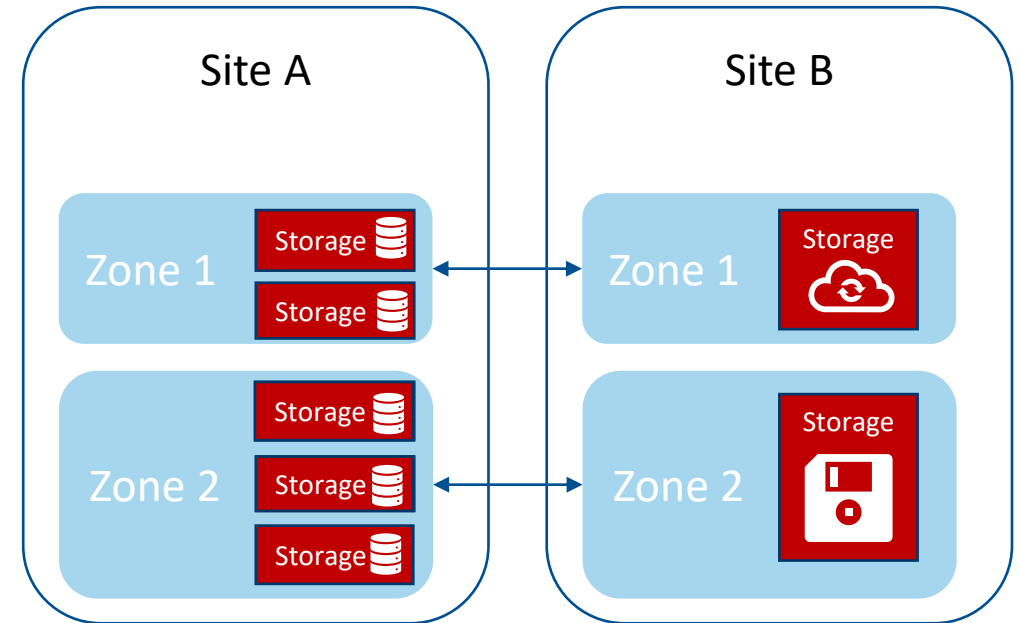
- Type of storage:

- Local
- NAS
- Tape Library
- Object storage (S3)

- Degraded mode

- ALL\_ZONES\_REQUIRED : true | false
- ALL\_SITES\_REQUIRED : true | false

- Manually allow archiving to continue (Risk assessment)
- Retrievals stay operational



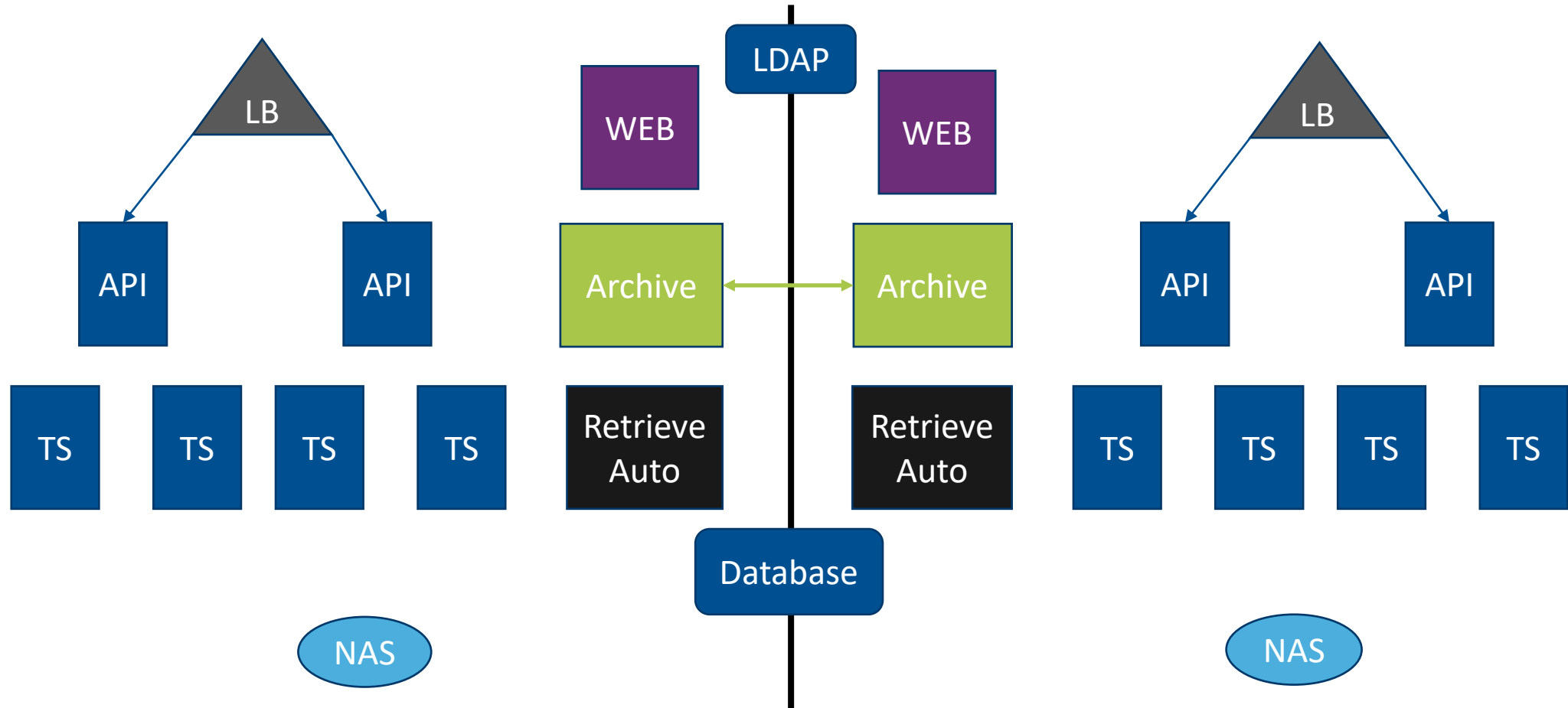
## ■ Function Specialization

- Use engine for specific tasks (ARCHIVE, RETRIEVE, AUTOMATED)
- Clustering of engines
- Function specialization allows to reduce the impact of one function over the others

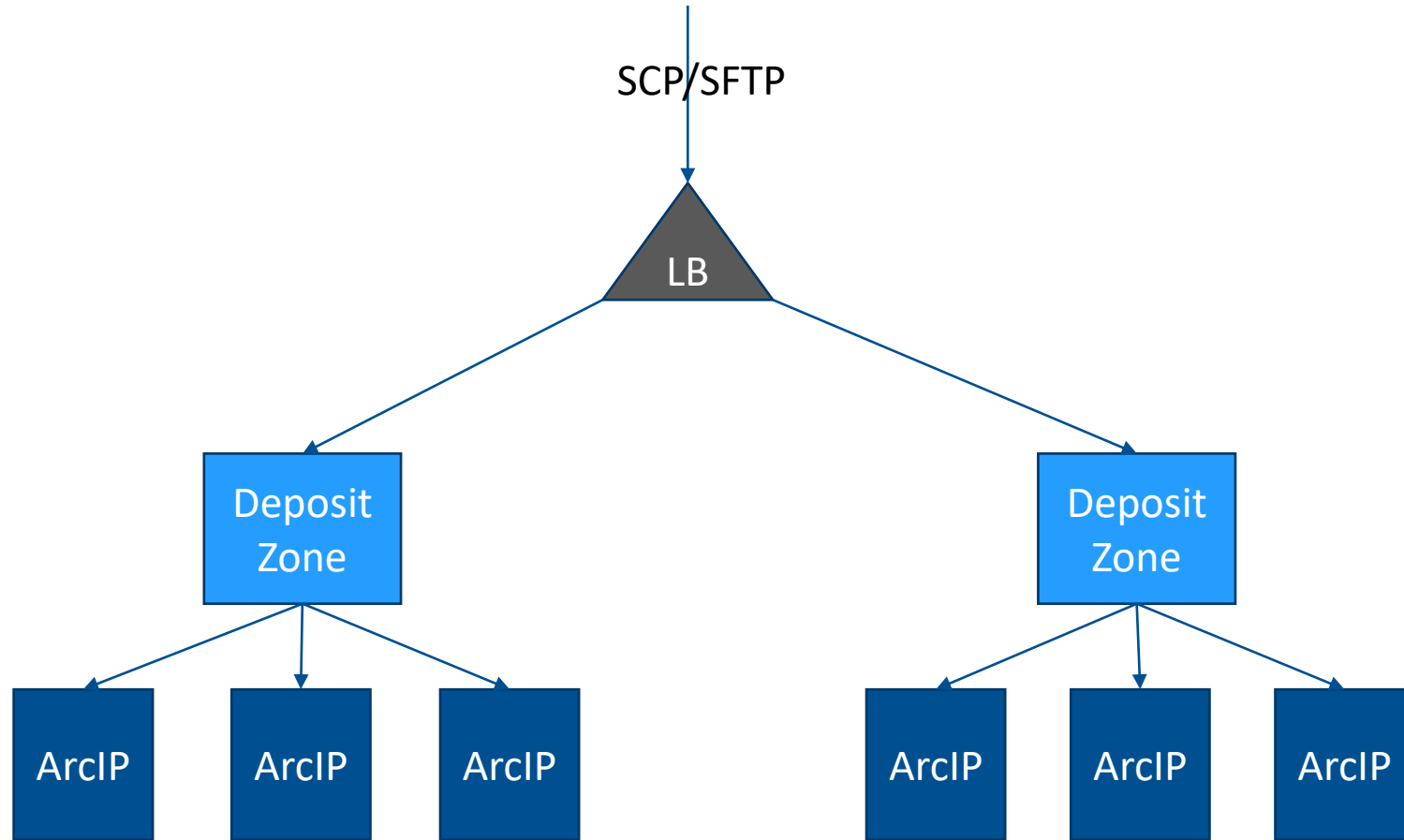
# Sample Architecture (function specialization – dual site)

Site A

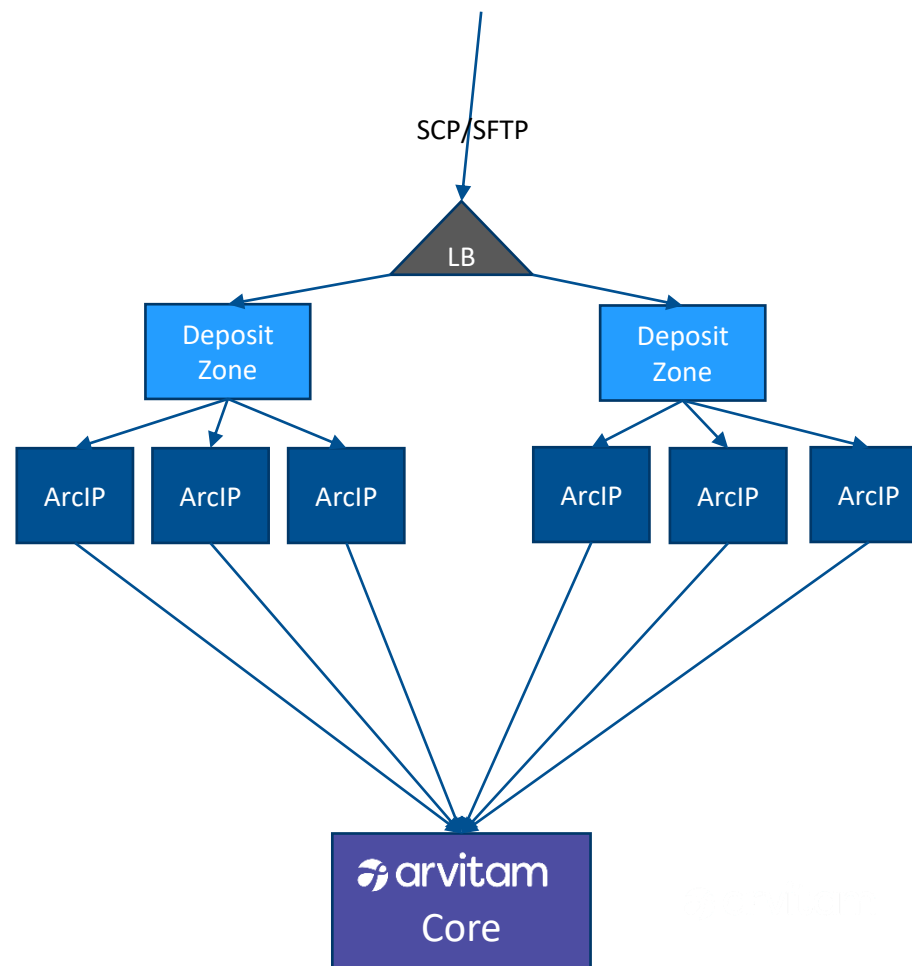
Site B



# Load balancing Ingest via ArcIP

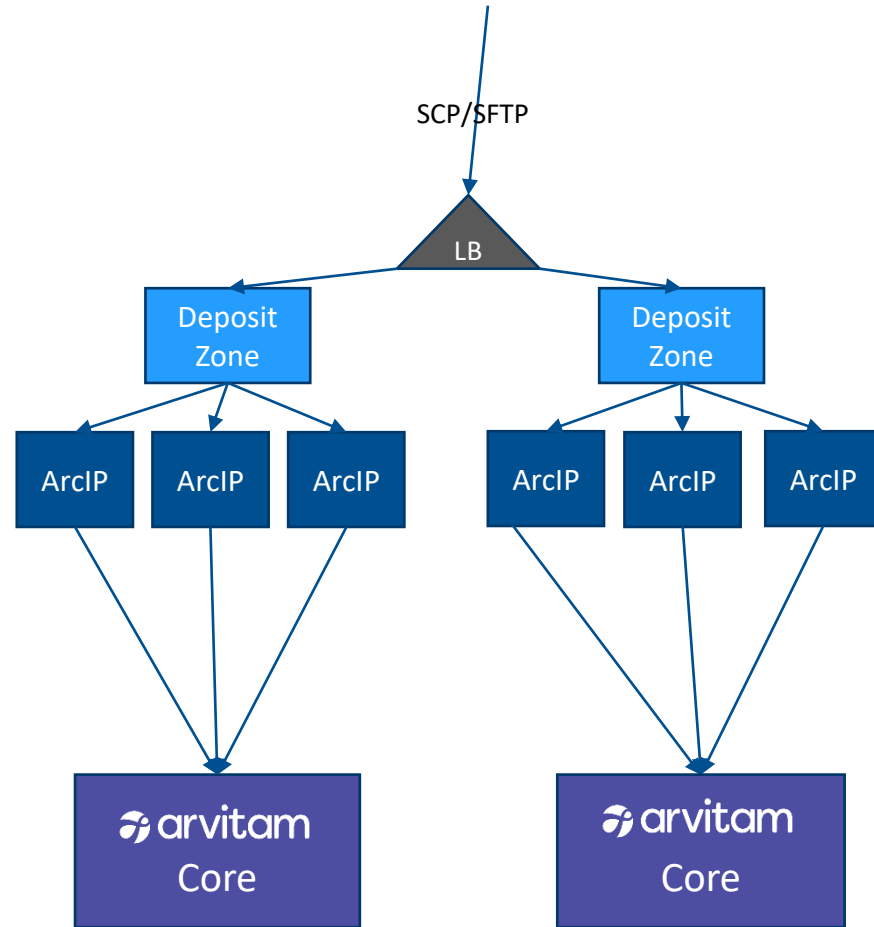


# Sent to Arvitam

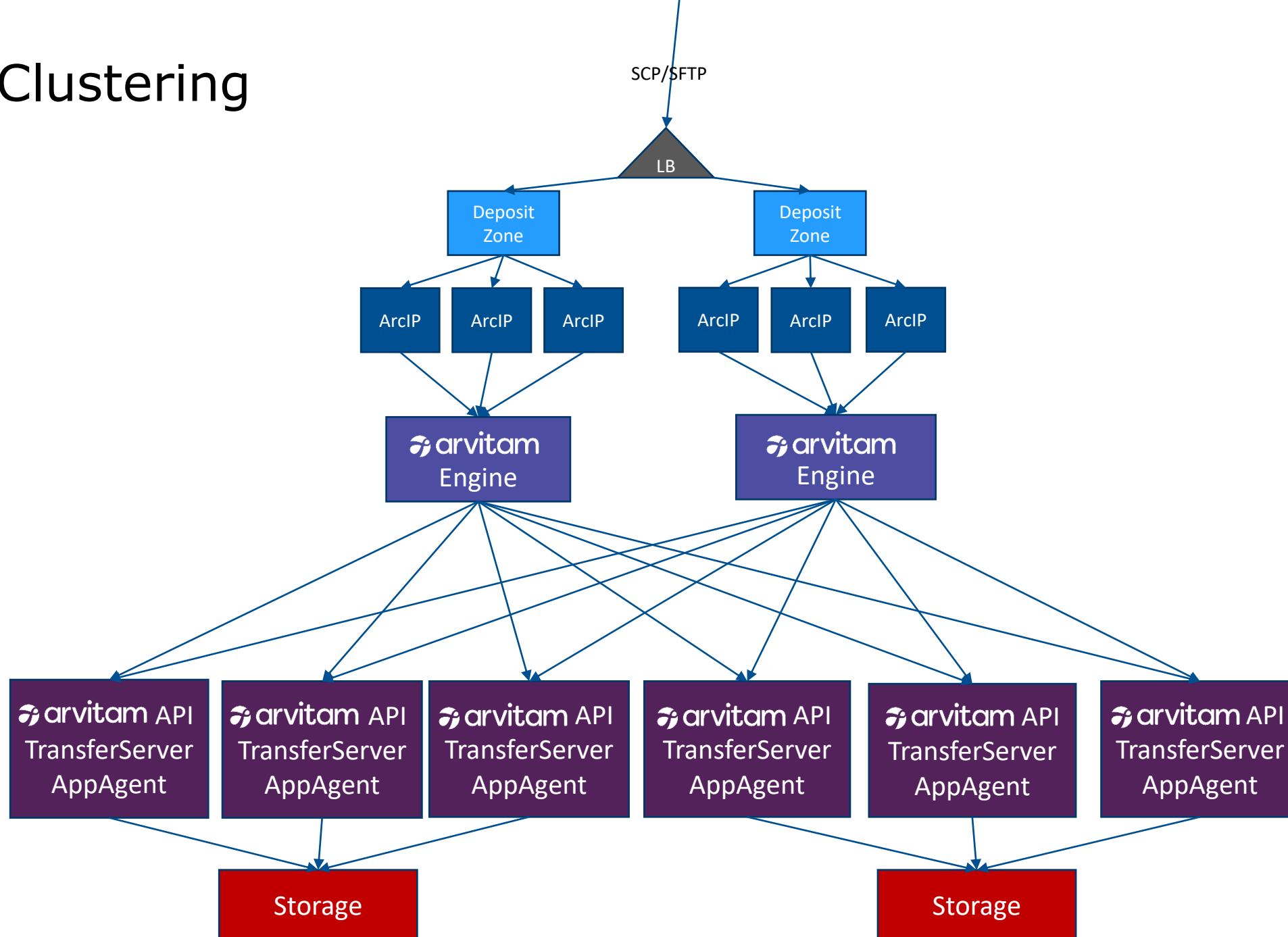


© Arvitam

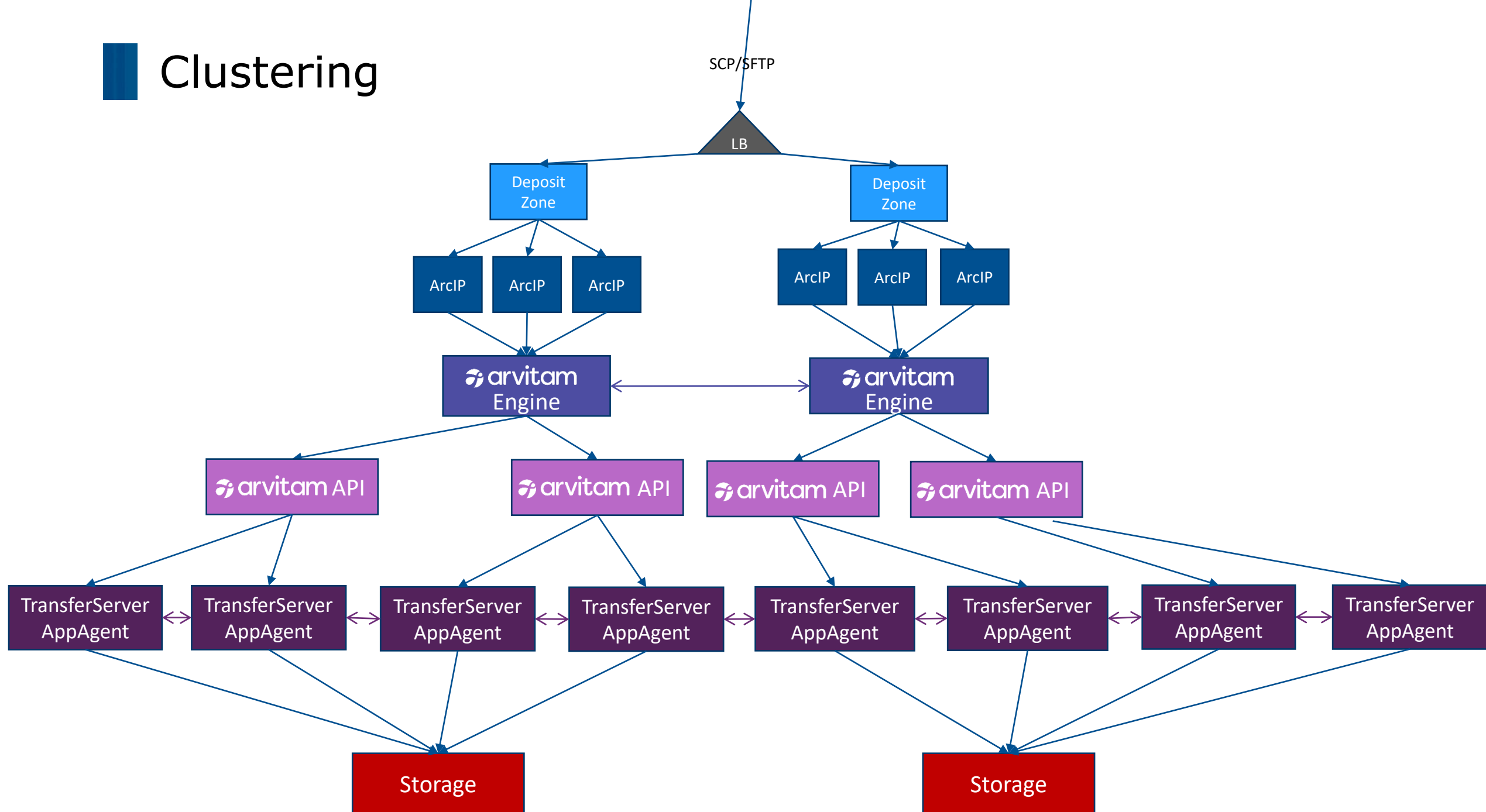
# Dual site (active/active or active/passive)



# Clustering



# Clustering



# Silos

