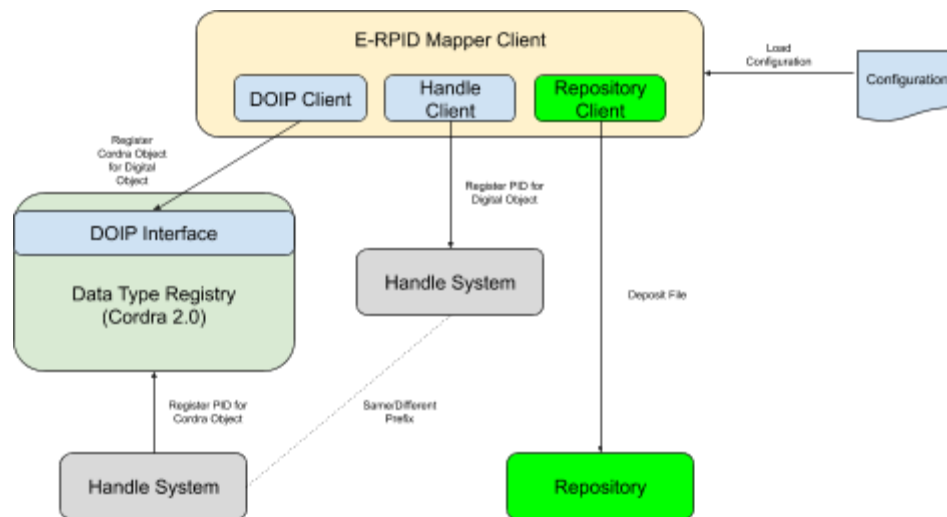


E-RPID Service Installation Document

1. E-RPID High-Level Architecture

a. Components:

- i. E-RPID Mapper Client
- ii. Handle System
- iii. Data Type Registry (Cordra)
- iv. Repository (Fedora repository)



2. Installation Guidance

a. Handle System

There are major three steps in using Handle Net service:

i) Prefix registration

Below link shows how to request an allocation of prefix:

<https://www.handle.net/prefix.html>

ii) Installation of Handle server

Detailed installation manual can be found at:

http://www.handle.net/tech_manual/HN_Tech_Manual_9.pdf

Please pay particular attention to Section 3.6 on how to set up your allocated prefix

If you encounter issues during the setup, please refer to below FAQ page that contain solutions for many common issues are answered

<https://www.handle.net/faq.html>

iii) Upload information about your handle service to CNRI

b. Data Type Registry (Cordra)

There are a number of options to install Cordra. The most straightforward way is to do a single-instance installation, as a locally-run instance or within Docker.

Detailed instructions can be found in below link:

<https://www.cordra.org/documentation/configuration/single-instance-deployment.html>

Since Docker has become a popular platform for service deployment, for users who are interested in Docker deployment, please refer to below link:

<https://www.cordra.org/documentation/configuration/single-instance-deployment.html#docker-single-deploy>

Sample Docker files including “Dockerfile”, “docker-compose.yml” can be found in below github repository:

<https://gitlab.com/cnri/cordra/cordra/-/tree/master/cordra-startup/src/main/dist/docker>

In particular, please note that here are four environment variables that can be set for the Docker image:

- **CORDRA_ADMIN_PASS** (REQUIRED) - password for the admin user
- **CORDRA_BASE_URI** - base uri for this Cordra
- **CORDRA_PREFIX** - Handle prefix to use
- **CORDRA_HDL_ADMIN** - Handle admin for the prefix

These variables can be set on the command line (see example from Cordra docker deployment link), or in the variables.env (see example in the github repo)

c. Optional: Fedora Repository

ERPID by design is loosely coupled and it can integrate with different repositories based on user's specific need. Fedora Commons, as a flexible, modular, and open source repository platform, can be integrated into ERPID easily. One advantage of using Fedora Commons is its simple installation process. Similar to Cordra, both local and Docker based deployment options are available. Below are some of useful links:

Instructions for local installation:

<https://wiki.lyrasis.org/display/FEDORA4x/Quick+Start>

Instructions for Docker based deployment:

<https://github.com/fcrepo4-labs/fcrepo4-docker>