

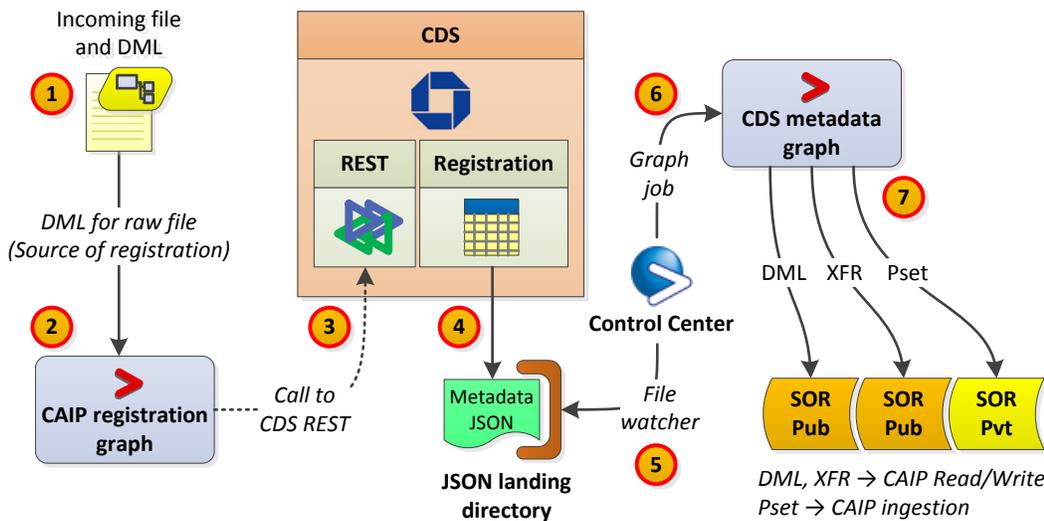
1. CAIP Metadata Exchange Overview

The CAIP metadata exchange workflow provides the means to register input files as CDS entities. Once the entities have been registered in CDS, they can be ingested into CAIP, and subsequently processed using CAIP Read and CAIP Write graph components.

To register an entity in CDS, you need two files:

- **Input data file** — The raw input data file that will be registered as an entity in CDS.
- **DML record format file** — For each raw input data file, you must provide a corresponding DML record format file. Note that, in most cases, if you have an input file, you will already have a record format.

The following illustration provides an overview of the CAIP metadata exchange workflow:



In the preceding illustration:

Step	Description
1	An incoming raw data file and a corresponding DML record format file are prepared for registration.
2	The CAIP registration graph (CAIP_registration.mp) reads the input DML, and then generates a registration JSON.
3	The CAIP registration graph uses a CDS REST call to transmit the registration JSON to CDS.
4	CDS Metadata Registration drops a metadata JSON in an entity-specific JSON landing directory. This metadata JSON contains all the information necessary to generate a CDS registration entry.
5	A Control Center file watcher job detects the incoming metadata JSON.
6	The Control Center file watcher triggers a CDS metadata graph (cde_metadata.mp) job.
7	The CDS metadata graph performs all necessary transformations, and then writes DML, XFR, and PSET SORs into corresponding public and private project directories. The DML and XFR SORs are used for CAIP Read and CAIP Write actions. The Pset SORs are used for CAIP ingestion.