

[DISCUSS] Domains



This page contains topics supporting ongoing discussion at dev@syncope.apache.org.

- 1 [Entity changes](#)
- 2 [REST API changes](#)

Tracked as [SYNCOPE-652](#).

The purpose of this new feature is to provide the possibility of defining separated "containers" for all entities currently managed by Syncope in order to allow the execution in [multitenant environments](#).

Additional requirements:

1. Physical separation: data for different domains MUST reside on different database instances
2. Heterogeneity: data for different domains MAY be hosted on different database engines (domain A on MySQL, domain B on Oracle, ...)

Entity changes

Each and every entity will need to refer to a new **Domain** entity; all relationships among entities will require to be in the same domain.

~~The idea is to empower [OpenJPA slices](#) to achieve physical separation of SQL tables related to different domains (each domain will require a dedicated slice). An additional slice, the master slice, will always be available for working without domains or to hold domain information related to all domains.~~

The idea is to allow the definition of multiple `EntityManagerFactory` instances via Spring's [LocalContainerEntityManagerFactoryBean](#): being each `EntityManagerFactory` related to a different `DataSource` and `DBDictionary`, this will permit to achieve physical separation of SQL tables related to different domains.

REST API changes

Each REST endpoint will check for the availability of a new HTTP header `X-Syncope-Domain` containing the domain in which the requested operation will take place; absence of such header will imply that operation is to be performed on master domain.