


Ingest: 4. The version history of the Ingest API

Version numbers

 Please, note that the versioning mechanism presented here applies to **both** the metadata services (the `REST API`) **and** the loading tools. Changes in any would result in a change in the version number reported by the metadata service.

The current version of the API could be fetched using a special metadata service documented in the section [Obtaining the current version of the API](#). The current documentation expects the service to return (upon successful completion of a request as explained in [Error reporting in the REST API](#)) the `JSON` object which has the following value of the attribute `version`:

```
{ ...
  "version":17
}
```

Since workflow implementations would be written with some specific version of the API in mind, they (the workflows) are *expected* to call this service to see if the implementation is compatible with the current version of the Ingest system of a given Qserv deployment. Formally, both versions should match. Otherwise, it would be hard to predict how the application will behave while attempting to ingest data into Qserv. In some cases, failure caused by version incompatibility may happen at some later stage of the campaign, which may result in wasting time and resources.

As of version **12**, the API is offering a more advanced (flexible) mechanism for working with the versions. Please, see details in the [JIRA ticket](#) linked from the section [Optional version numbers in calls to the REST API](#).

The summary info on the versions

| Version | Info |
|---------|--|
| 1 | The initial implementation |
| 2 | Added support for ingesting contributions "by reference" from object stores and distributed file systems |
| 3 | Changes in the location service for the fully-replicated tables |
| 4 | Refined control of the desired CSV dialect when ingesting contributions |
| 5 | Better error handling in the table index creation REST service |
| 6 | Asynchronous protocol for ingesting contributions |
| 7 | Added support for many director tables per catalog |
| 8 | Minor changes to the REST services that do not affect the Ingest API |
| 9 | Added support for ingesting the RefMatch tables |
| 10 | Added the FQDN names to the worker registration records |
| 11 | Ingesting catalogs into Qserv via HTTP(S) proxies |
| 12 | Optional version numbers in calls to the REST API |
| 13 | Process and report MySQL warnings when ingesting table contributions |
| 14 | Concurrency control when processing async contribution requests |
| 15 | Specifying character sets when ingesting contributions |
| 16 | Automatic retries for the failed contribution requests |
| 17 | Display info on the table indexes at the Qserv Web Dashboard |
| 18 | Minor changes to the REST services that do not affect the Ingest API |
| 19 | Minor changes to the REST services that do not affect the Ingest API |
| 20 | Eliminate non-local director index ingest option in the Qserv Replication/Ingest system |
| 21 | Configuring non-unique primary keys of the director tables in Qserv Ingest API |
| 22 | The director index creation service requires the director tables to be published |

| | |
|----|--|
| 23 | Minor changes to the REST services that do not affect the Ingest API |
| 24 | Minor changes to the REST services that do not affect the Ingest API |
| 25 | The Replication Controller has an additional command-line parameter <code>--qserv-czar-proxy=<url></code> that allows the Controller to interact with Qserv via the front-end interface. ⚠ The default value <code>"mysql://qsmaster@localhost:4040/"</code> of the parameter will not work in deployments where Controller and Qserv Czar run on different hosts (Kubernetes <i>pods</i>). |
| 26 | Minor changes to the REST services that do not affect the Ingest API |
| 27 | HTTP-based worker management control plane |
| 28 | Extended work management REST API. See HTTP-based management protocol for Qserv workers . The change does not affect the Ingest API. |
| 29 | TBC... |
| 30 | Added HTTP-based frontend for Qserv. The change does not affect the Ingest API. |