

# Variant Storage Operations

## Operations

**Variant Storage Operations** are responsible for leaving variant data ready for querying and analysis, for instance *VCF loading*, *integrity checks*, *sample genotype aggregation*, *indexing*, or *variant annotation* are examples of operations. Operations can only be executed by *admin* users. Many operations write and update indexed data, this will significantly improve the quality and performance of different queries and analysis.

The OpenCGA Variant Storage Engine supports several operations to work with variant datasets:

- [Sample Genotype Aggregation](#)
- [Variant Annotation](#)
- [Secondary Index](#)
- [Export / Import](#)

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## Index Pipeline

