

Searching NoradIds

De Opera

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La version imprimable n'est plus prise en charge et peut comporter des erreurs de génération. Veuillez mettre à jour les signets de votre navigateur et utiliser à la place la fonction d'impression par défaut de celui-ci.

Apart from the reentry estimation process, it is also possible to call some methods in order to filter Norad Ids. As with the [GUI](#) or the Batch mode (see [here](#) or [here](#)), two solutions are available:

Search by Sat

This is done using the `OperaTleManager.searchObjectsBySat()` method:

```
// Opera properties configuration
final OperaAppConfigurationProperties operaAppConfigurationProperties =
OperaAppConfigurationProperties.getInstance();
operaAppConfigurationProperties.load("data/operaapp-
configuration.properties");

final String filterNoradId = "*479";
final String filterCosparId = "*";
final String filterName = "DEL*";
final String filterCountry = "US";
final ArrayList<OperaTLESatSizes> validSizes = new
ArrayList<OperaTLESatSizes>();
validSizes.add(OperaTLESatSizes.MEDIUM);
validSizes.add(OperaTLESatSizes.SMALL);

final ArrayList<ObjTLESearch> list =
OperaTleManager.searchObjectsBySat(filterNoradId, filterCosparId, filterName,
filterCountry, validSizes, DecayChoice.REENTERED, null);

for ( ObjTLESearch obj : list ) {
    System.out.println(obj.getNoradId());
    System.out.println(obj.getCriteria());
}
```

Search by orbital criteriae

This is done using the `OperaTleManager.searchObjectsByDay()` method:

```
// Opera properties configuration
final OperaAppConfigurationProperties operaAppConfigurationProperties =
OperaAppConfigurationProperties.getInstance();
operaAppConfigurationProperties.load("data/operaapp-
configuration.properties");
```

```

// Adding the PATRIUS_DATASET
OperaReadUtils.iniPatriusDataset(null);
final TimeScale TUC = TimeScalesFactory.getUTC();

final boolean filterOnInc = false;
final boolean convertIToDeg = true;
final double filterIncMin = 0.;
final double filterIncMax = 0.;

final boolean isAEOrbit = false;

final boolean filterOnA = false;
final boolean convertAToKm = true;
final double filterAMin = 0.;
final double filterAMax = 0.;
final boolean filterOnEcc = false;
final double filterEccMin = 0.;
final double filterEccMax = 0.;

final boolean filterOnHp = false;
final boolean convertHpToKm = true;
final double filterHpMin = 0.;
final double filterHpMax = 0.;
final boolean filterOnHa = true;
final boolean convertHaToKm = true;
final double filterHaMin = 250.;
final double filterHaMax = 300.;
final AbsoluteDate filterDateMin = new
AbsoluteDate("1950-01-01T00:00:00.000", TUC);
final AbsoluteDate filterDateMax = new
AbsoluteDate("2019-09-02T00:00:00.000", TUC);
final ArrayList<ObjTLESearch> list = OperaTleManager.searchObjectsByOrb(
    filterOnInc, convertIToDeg, filterIncMin, filterIncMax,
    isAEOrbit,
    filterOnA, convertAToKm, filterAMin, filterAMax,
    filterOnEcc, filterEccMin, filterEccMax,
    filterOnHa, convertHaToKm, filterHaMin, filterHaMax,
    filterOnHp, convertHpToKm, filterHpMin, filterHpMax,
    filterDateMin, filterDateMax, null);
for ( ObjTLESearch obj : list ) {
    System.out.println(obj.getNoradId());
    System.out.println(obj.getCriteria());
}

```

Global search

This is done using the [OperaTleManager.searchObjectsBySatAndOrb\(...\)](#) method using all the previous arguments described above.

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