

SEC Yield Customer API Code Challenge

Revision History

Author	Revision Number	Date
TCSDEVELOPER	1.0	2016-08-20

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1. Organization of Submission

customerapi

The customer REST API module.

docs

Contains deployment guides and Postman collection files.

seccommons

The common code module.

secyieldapi

The SEC Yield REST API module.

test_data

Contains sql scripts that populate the db with test data.

README.md

The project documentation in Markdown format.

2. Prerequisites

Java 8 <http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>

Tomcat 8 <https://tomcat.apache.org/download-80.cgi>

Maven <https://maven.apache.org/download.cgi>

MySQL <https://www.mysql.com/>

3. Configuration

secyieldapi module

These are the most important variables that can be configured for **secyieldapi** module:

Name	Location	Description	Example value
secyieldserviceimpl.maxNumberOfSecurityData	secyieldapi/src/main/resources/constants.properties	The maximum number of security data to be returned by the API	100

customerapi module

These are the most important variables that can be configured for **customerapi** module:

Name	Location	Description	Example value
operationScale	customerapi/src/main/resources/constants.properties	The operation scale used by calculator	7

	rties	engines	
roundingMode	customerapi/src/main/resources/constants.properties	The rounding mode used by calculator engines	4
mysql.url	customerapi/src/main/resources/db.properties	The MySQL url	jdbc:mysql://localhost:3306/secyield
mysql.username	customerapi/src/main/resources/db.properties	The MySQL username	root
mysql.password	customerapi/src/main/resources/db.properties	The MySQL password	passwd

For tests, make sure you provide the correct db credentials in customerapi/src/main/resources/applicationContext-test.xml:

```
<!-- dataSource configuration -->
```

```
<bean id="dataSource"
```

```
    class="org.springframework.jdbc.datasource.DriverManagerDataSource">
```

```
    <property name="driverClassName" value="com.mysql.jdbc.Driver" />
```

```
    <property name="url" value="jdbc:mysql://localhost:3306/test-secyield" />
```

```
    <property name="username" value="root" />
```

```
    <property name="password" value="root" />
```

```
</bean>
```

4. Application Setup

Follow these steps to get the APIs running:

Connect to MySQL:

```
$ mysql -u root -p
```

Create “secyield” and “test-secyield” dbs if they doesn't exist (“test-secyield” db is used for integration tests):

```
mysql> CREATE SCHEMA `secyield`;
mysql> CREATE SCHEMA `test-secyield`;
```

In seccommons folder, run the following command:

```
$ mvn clean install
```

In customerapi folder, run the following commands:

```
$ mvn clean install
$ mvn spring-boot:run
```

In the mysql command line, switch to “secyield” db:

```
mysql> use secyield;
```

Populate the db with test data:

```
mysql> source <path_to_test_data>;
```

where <path_to_test_data> is the absolute path to test_data/test_data.sql.

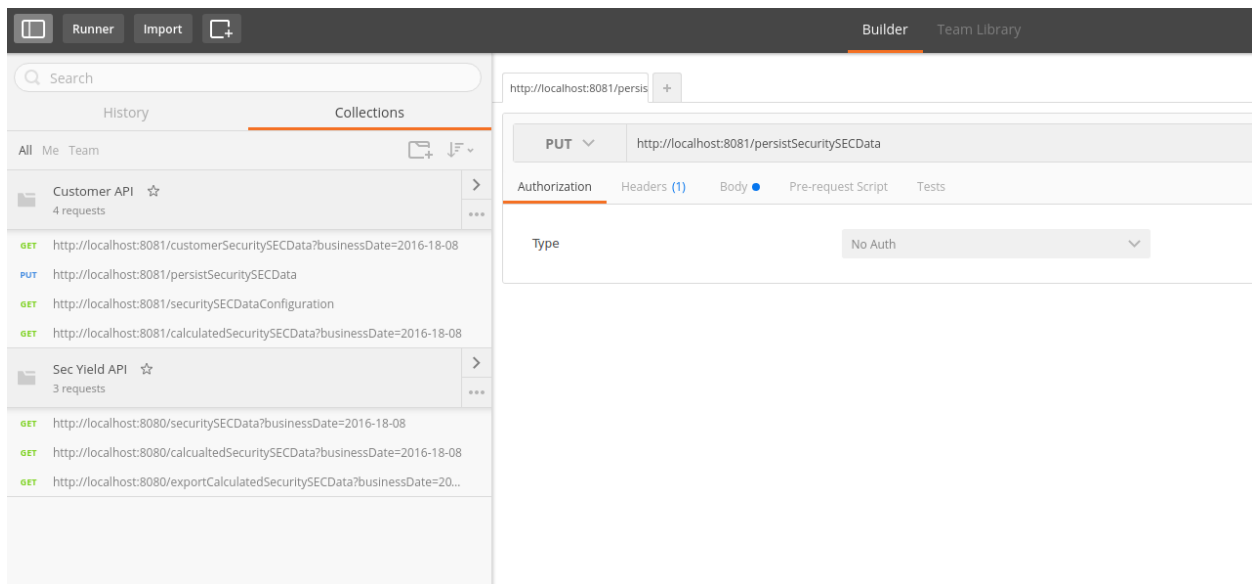
In secyieldapi folder, run the following commands:

```
$ mvn clean install
$ mvn spring-boot:run
```

5. Verification

All input dates for the 2 REST APIs must follow this format: yyyy-dd-MM (see `com.csa.apex.secyield.utility.Constants.API_DATE_FORMAT`).

Open `docs/sec_yield_api_postman_collection.json` and `docs/customer_api_postman_collection.json` in Postman application

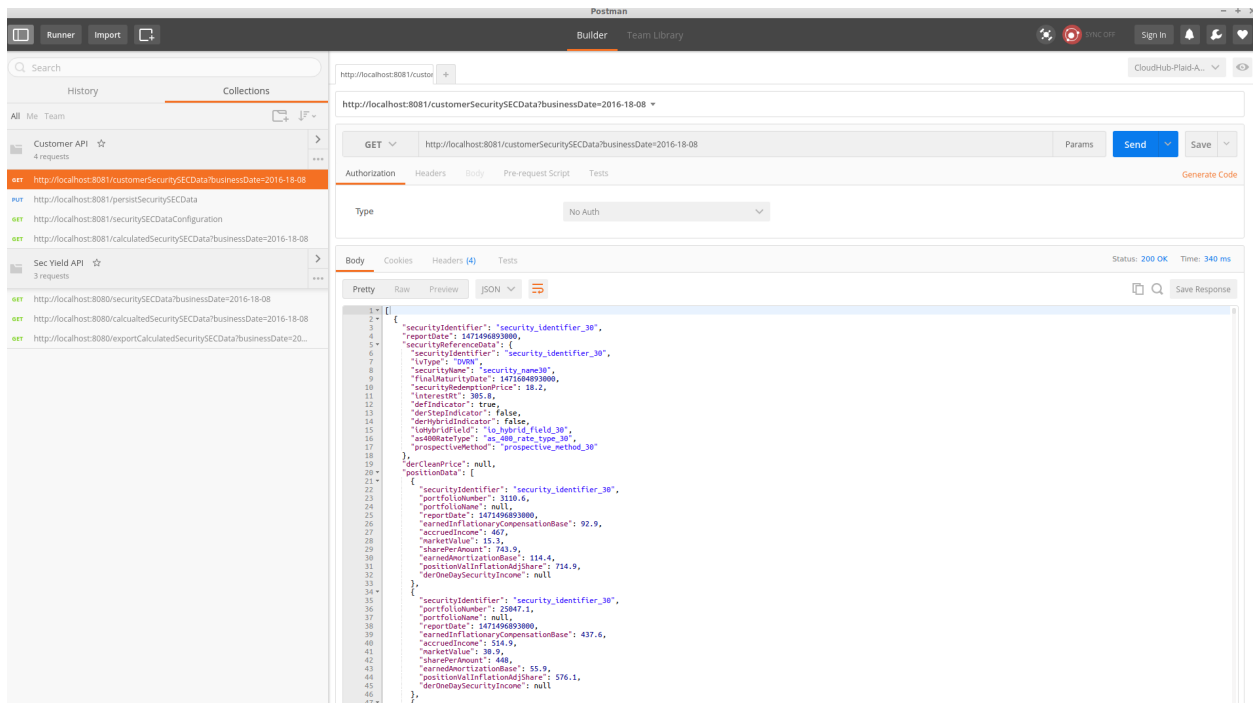


FYI, the test data contains data between 2016-15-08 and 2016-19-08.

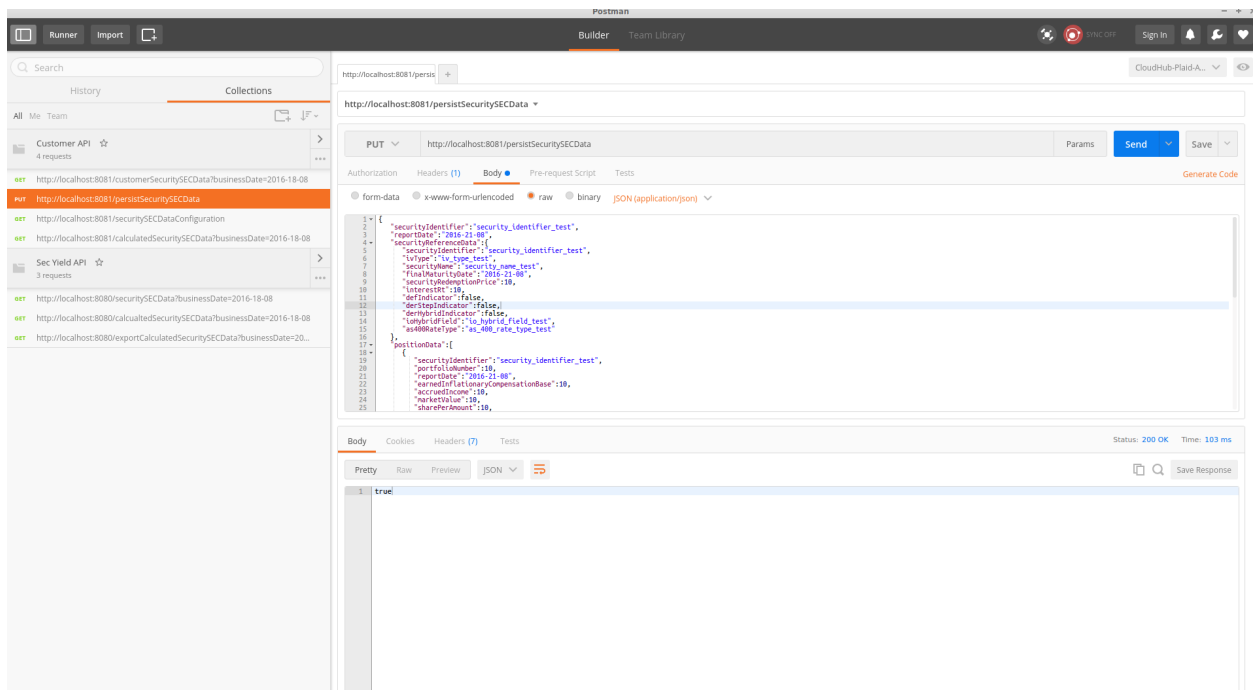
Customer API

GET /customerSecuritySECDData

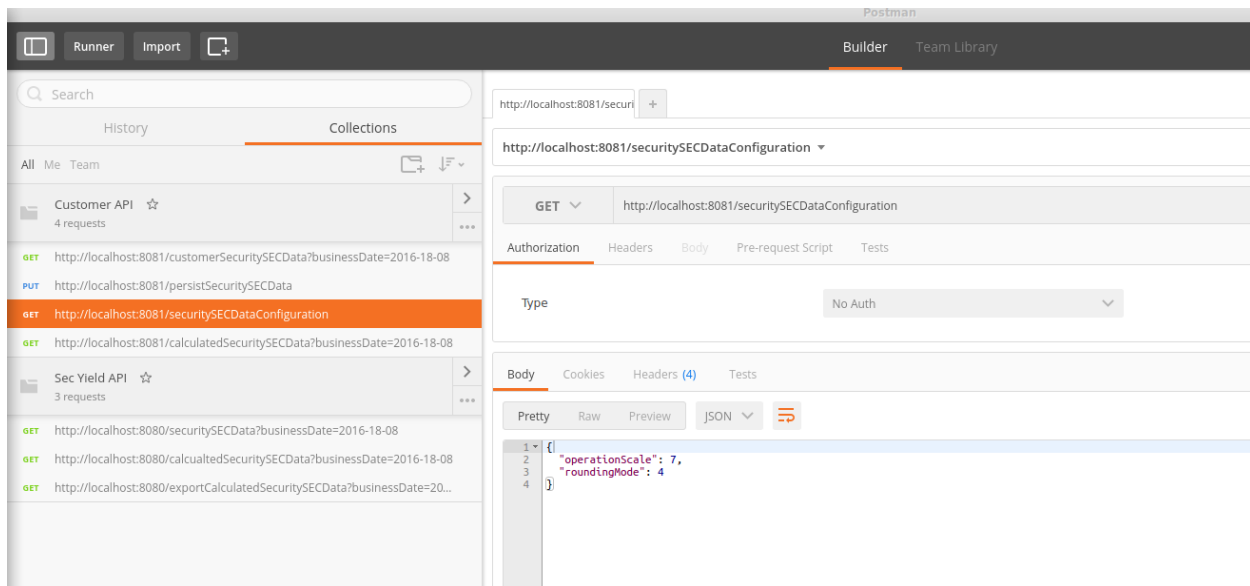
Gets the customer SEC security data (without yield and income calculated).



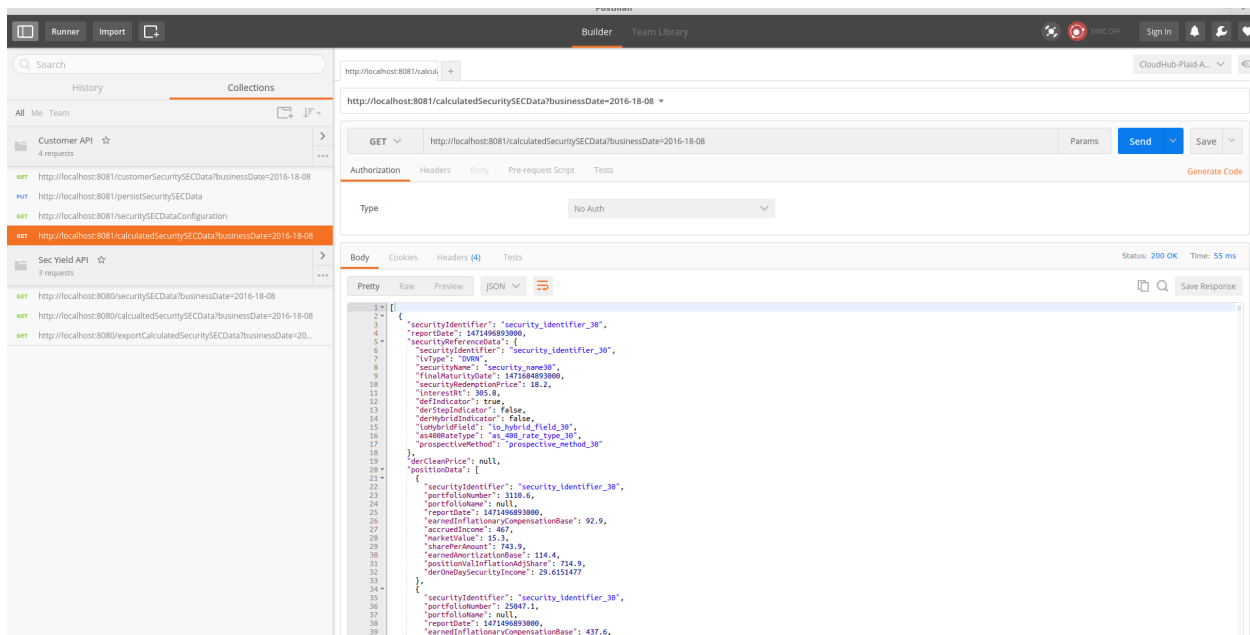
PUT /persistSecuritySECData
Persists the calculated SEC security data.



GET /securitySECDataConfiguration
Gets SEC security config for the calculations in engines.



GET /calculatedSecuritySECData
Gets the calculated SEC security data.



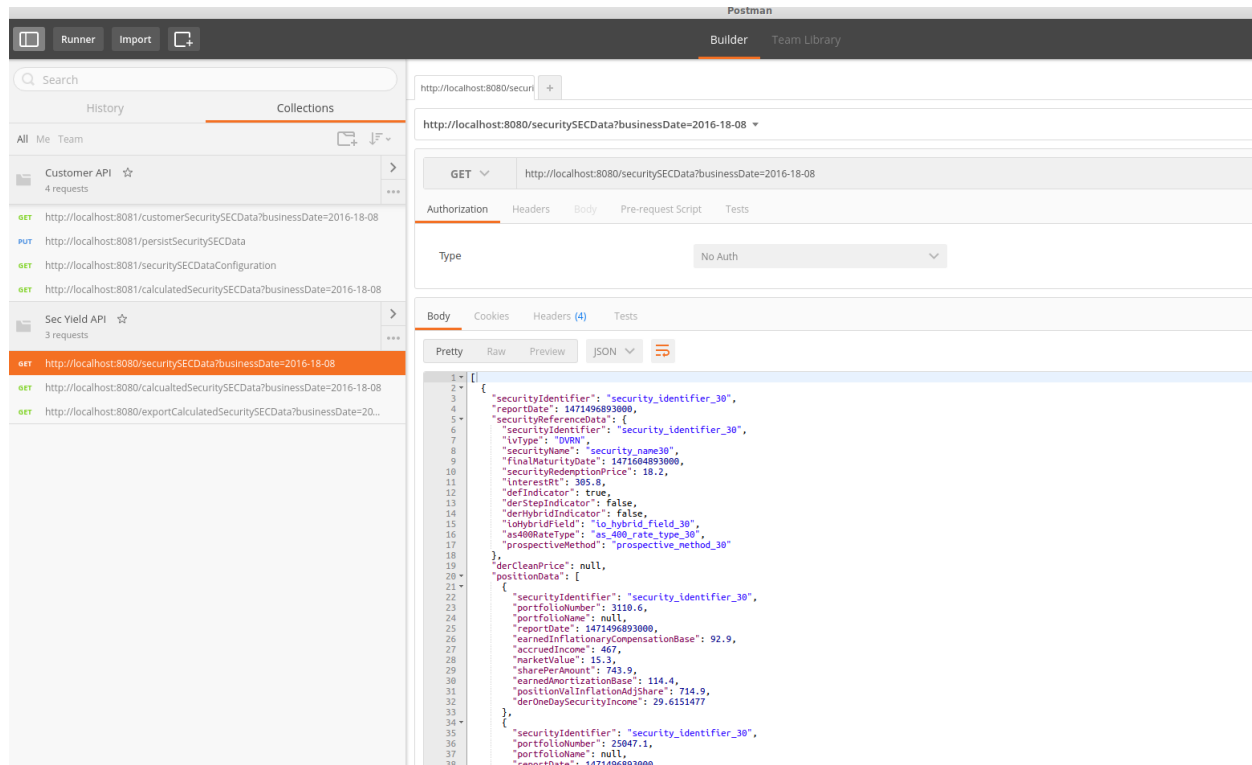
Note that if data was not calculated previously (by calling the SEC Yield API GET /securitySECData), an empty array will be returned by this request. In my test I already had some calculated data before.

SEC Yield API

Note the number of retrieved results. It must not exceed the configured “secyieldserviceimpl.maxNumberOfSecurityData”

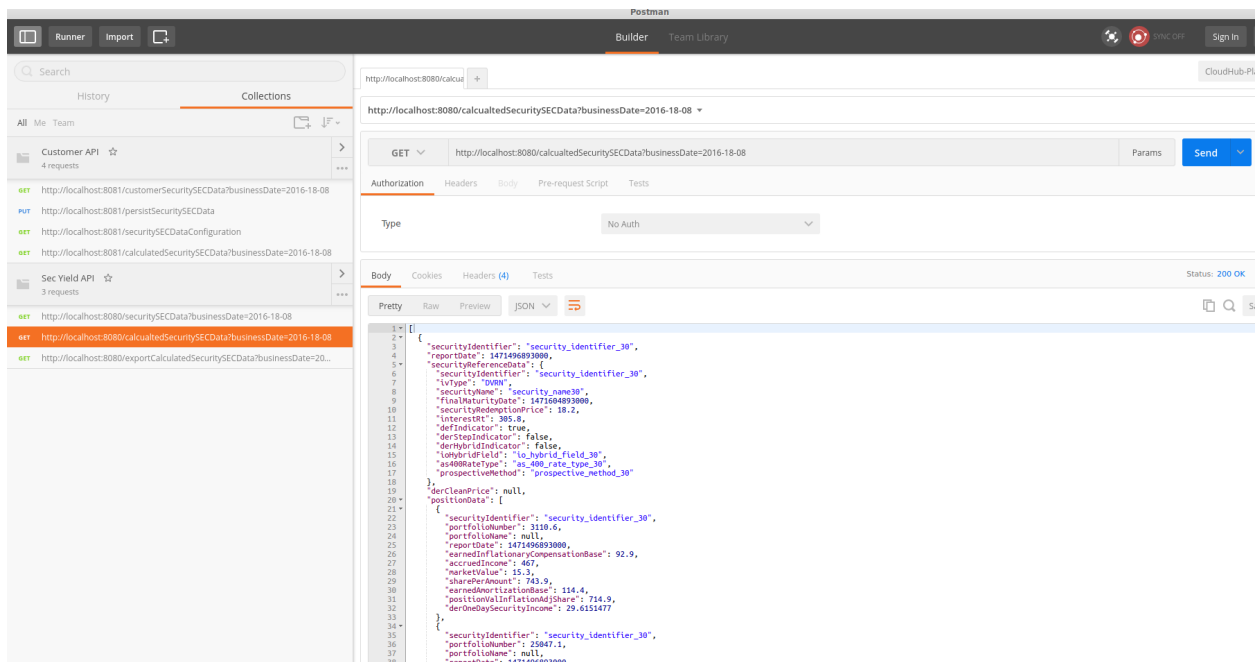
GET /securitySECData

Gets SEC Security data with the calculated data for the business date. The securities are also persisted using customer REST API.



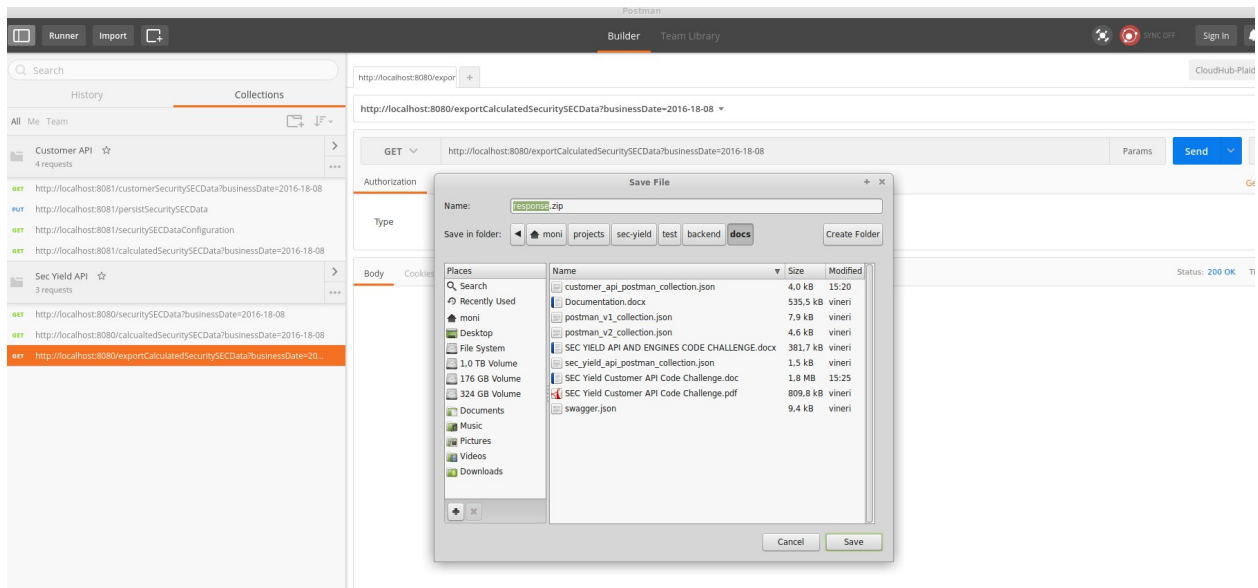
GET /calculatedSecuritySECData

Gets already calculated SEC Security data for the given date.



GET /exportCalculatedSecuritySECData
Exports calculated SEC Security data for the given date.

For downloading, click the arrow near the Send button and then click “Send and Download”.



In order to get the correct file name of the export, please test this url in a browser.

Export file sample:

export-2016-18-08.csv - LibreOffice Calc

A1	B	C	D	E	F	G	H	I	J	K	L	M	N	O
	securityIdentifier	derClearPrice	derYieldCalcEngine	derIncomeCalcEngine	derOneDaySecurityYield	derRedemptionDate	derRedemptionPrice	derSecurityType	derTIPSinflationaryRatio	securityPrice	trRate	trType	securityName	finalMaturityDate
1	security_identifier_30	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	305.8	null	null	124.2	57	25.2	DVRN	security_name30	2016-19-08
2	security_identifier_30	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	305.8	null	null	124.2	57	25.2	DVRN	security_name30	2016-19-08
3	security_identifier_30	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	305.8	null	null	124.2	57	25.2	DVRN	security_name30	2016-19-08
4	security_identifier_30	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	305.8	null	null	124.2	57	25.2	DVRN	security_name30	2016-19-08
5	security_identifier_30	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	305.8	null	null	124.2	57	25.2	DVRN	security_name30	2016-19-08
6	security_identifier_30	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	305.8	null	null	124.2	57	25.2	DVRN	security_name30	2016-19-08
7	security_identifier_30	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	305.8	null	null	124.2	57	25.2	DVRN	security_name30	2016-19-08
8	security_identifier_30	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	305.8	null	null	124.2	57	25.2	DVRN	security_name30	2016-19-08
9	security_identifier_30	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	305.8	null	null	124.2	57	25.2	DVRN	security_name30	2016-19-08
10	security_identifier_20	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	81.4	null	null	38	264.6	721.8	DVRN	security_name20	2016-19-08
11	security_identifier_20	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	81.4	null	null	38	264.6	721.8	DVRN	security_name20	2016-19-08
12	security_identifier_20	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	81.4	null	null	38	264.6	721.8	DVRN	security_name20	2016-19-08
13	security_identifier_20	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	81.4	null	null	38	264.6	721.8	DVRN	security_name20	2016-19-08
14	security_identifier_20	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	81.4	null	null	38	264.6	721.8	DVRN	security_name20	2016-19-08
15	security_identifier_20	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	81.4	null	null	38	264.6	721.8	DVRN	security_name20	2016-19-08
16	security_identifier_20	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	81.4	null	null	38	264.6	721.8	DVRN	security_name20	2016-19-08
17	security_identifier_20	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	81.4	null	null	38	264.6	721.8	DVRN	security_name20	2016-19-08
18	security_identifier_31	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	547.7	null	null	183.9	104.7	2.1	VRDN	security_name31	2016-19-08
19	security_identifier_31	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	547.7	null	null	183.9	104.7	2.1	VRDN	security_name31	2016-19-08
20	security_identifier_31	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	547.7	null	null	183.9	104.7	2.1	VRDN	security_name31	2016-19-08
21	security_identifier_31	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	547.7	null	null	183.9	104.7	2.1	VRDN	security_name31	2016-19-08
22	security_identifier_31	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	547.7	null	null	183.9	104.7	2.1	VRDN	security_name31	2016-19-08
23	security_identifier_31	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	547.7	null	null	183.9	104.7	2.1	VRDN	security_name31	2016-19-08
24	security_identifier_31	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	547.7	null	null	183.9	104.7	2.1	VRDN	security_name31	2016-19-08
25	security_identifier_31	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	547.7	null	null	183.9	104.7	2.1	VRDN	security_name31	2016-19-08
26	security_identifier_21	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	254.1	null	null	145.3	482	247	VRDN	security_name21	2016-19-08
27	security_identifier_21	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	254.1	null	null	145.3	482	247	VRDN	security_name21	2016-19-08
28	security_identifier_21	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	254.1	null	null	145.3	482	247	VRDN	security_name21	2016-19-08
29	security_identifier_21	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	254.1	null	null	145.3	482	247	VRDN	security_name21	2016-19-08
30	security_identifier_21	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	254.1	null	null	145.3	482	247	VRDN	security_name21	2016-19-08
31	security_identifier_21	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	254.1	null	null	145.3	482	247	VRDN	security_name21	2016-19-08
32	security_identifier_21	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	254.1	null	null	145.3	482	247	VRDN	security_name21	2016-19-08
33	security_identifier_21	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	254.1	null	null	145.3	482	247	VRDN	security_name21	2016-19-08
34	security_identifier_32	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	572.1	null	null	326.1	213.6	665.4	VRDN	security_name32	2016-19-08
35	security_identifier_32	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	572.1	null	null	326.1	213.6	665.4	VRDN	security_name32	2016-19-08
36	security_identifier_32	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	572.1	null	null	326.1	213.6	665.4	VRDN	security_name32	2016-19-08
37	security_identifier_32	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	572.1	null	null	326.1	213.6	665.4	VRDN	security_name32	2016-19-08
38	security_identifier_32	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	572.1	null	null	326.1	213.6	665.4	VRDN	security_name32	2016-19-08
39	security_identifier_22	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	572.1	null	null	326.1	213.6	665.4	VRDN	security_name32	2016-19-08
40	security_identifier_22	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	572.1	null	null	326.1	213.6	665.4	VRDN	security_name32	2016-19-08
41	security_identifier_22	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	572.1	null	null	326.1	213.6	665.4	VRDN	security_name32	2016-19-08
42	security_identifier_22	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	572.1	null	null	326.1	213.6	665.4	VRDN	security_name32	2016-19-08
43	security_identifier_22	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	667.2	null	null	20.6	302.1	714.7	VRDN	security_name22	2016-19-08
44	security_identifier_22	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	667.2	null	null	20.6	302.1	714.7	VRDN	security_name22	2016-19-08
45	security_identifier_22	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	667.2	null	null	20.6	302.1	714.7	VRDN	security_name22	2016-19-08
46	security_identifier_22	2016-18-08	null	CouponYieldCalculationEngine	CouponIncomeCalculationEngine	667.2	null	null	20.6	302.1	714.7	VRDN	security_name22	2016-19-08

Tests

In seccommons folder, run the following command:

```
$ mvn test
```

```

T E S T S
Running com.csa.apex.secyield.utility.DateUtilityTest
2016-08-21 15:27:43 INFO AbstractContextLoader::r22 - Could not detect default resource locations for test class [com.csa.apex.secyield.utility.DateUtilityTest]: no resource found for suffixes [-context.xml, Context.groovy].
2016-08-21 15:27:43 INFO DefaultTestContextBootstrapper:185 - Using TestExecutionListeners: [org.springframework.boot.test.integration.TestPropertiesListener@16127982, org.springframework.test.context.support.DirtiesContextBeforeModesTestExecutionListener@868c159, org.springframework.test.context.support.DependencyInjectionTestExecutionListener@2038a6e1, org.springframework.test.context.support.DirtiesContextTestExecutionListener@3c0f93f1, org.springframework.test.context.transaction.TransactionalTestExecutionListener@3dc3399, org.springframework.test.context.jdbc.SqlScriptsTestExecutionListener@544fe44c]

Spring
:: Spring Boot :: (v1.3.0.RELEASE)

2016-08-21 15:27:44 INFO DateUtilityTest:40 - Starting DateUtilityTest on tibi-linux-xfce with PID 28742 (/home/moni/projects/sec-yield/test/Backend/seccommons/target/test-classes started by moni in /home/moni/projects/sec-yield/test/Backend/seccommons)
2016-08-21 15:27:44 INFO DateUtilityTest:600 - No active profile set, falling back to default profiles: default
2016-08-21 15:27:44 INFO AnnotationConfigApplicationContext:1578 - Refreshing org.springframework.context.annotation.AnnotationConfigApplicationContext@769e7ee8: startup date [Sun Aug 21 15:27:44 CEST 2016]; root of context hierarchy
2016-08-21 15:27:44 INFO Version:39 - HV000001: Hibernate Validator 5.2.4.Final
2016-08-21 15:27:44 INFO BeanDefinitionReader:317 - Loading 0% bean definitions from class path resource [applicationContext.xml]
2016-08-21 15:27:45 INFO DateUtilityTest:57 - Started DateUtilityTest in 1.798 seconds (JVM running for 2.336)
Tests run: 15, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 2.257 sec
2016-08-21 15:27:45 INFO AnnotationConfigApplicationContext:368 - Closing org.springframework.context.annotation.AnnotationConfigApplicationContext@769e7ee8: startup date [Sun Aug 21 15:27:44 CEST 2016]; root of context hierarchy

Results :

Tests run: 15, Failures: 0, Errors: 0, Skipped: 0

[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 3.974s
[INFO] Finished at: Sun Aug 21 15:27:45 CEST 2016
[INFO] Final Memory: 12M/228M
[INFO] -----

```

In customerapi folder, run the following command:

```
$ mvn test
```

```

SecuritySECData> com.csa.apex.secyield.customer.api.CustomerDataService.getCustomerSECData(java.util.Date) throws com.csa.apex.secyield.exceptions.SECYieldException
2016-08-21 15:28:55 INFO StandaloneMockMvcBuilder$StaticRequestMappingHandlerMapping:534 - Mapped "([persistSecuritySECData],methods=[PUT],produces=[application/json])" onto public abstract boolean com.csa.apex.secyield.customer.api.CustomerDataService.persistSecuritySECData(com.csa.apex.secyield.entities.SecuritySECData) throws com.csa.apex.secyield.exceptions.SECYieldException
2016-08-21 15:28:55 INFO StandaloneMockMvcBuilder$StaticRequestMappingHandlerMapping:534 - Mapped "([calculateSecuritySECData],methods=[GET],produces=[application/json])" onto public abstract java.util.List<com.csa.apex.secyield.entities.SecuritySECData> com.csa.apex.secyield.customer.api.CustomerDataService.getCalculatedSECData(java.util.Date) throws com.csa.apex.secyield.exceptions.SECYieldException
2016-08-21 15:28:55 INFO StandaloneMockMvcBuilder$StaticRequestMappingHandlerMapping:534 - Mapped "([securitySECDataConfiguration],methods=[GET],produces=[application/json])" onto public abstract com.csa.apex.secyield.entities.SECConfiguration com.csa.apex.secyield.customer.api.CustomerDataService.getConfiguration() throws com.csa.apex.secyield.exceptions.SECYieldException
2016-08-21 15:28:55 INFO RequestMappingHandlerAdapter:539 - Looking for @ControllerAdvice: org.springframework.test.web.servlet.setup.StubWebApplicationContext@5a615
2016-08-21 15:28:55 INFO MockServletContext:443 - Initializing Spring FrameworkServlet ''
2016-08-21 15:28:55 INFO TestDispatcherServlet:487 - FrameworkServlet '' Initialization started
2016-08-21 15:28:55 INFO TestDispatcherServlet:506 - FrameworkServlet '' Initialization completed in 0 ms
2016-08-21 15:28:55 INFO StandaloneMockMvcBuilder$StaticRequestMappingHandlerMapping:534 - Mapped "([customerSecuritySECData],methods=[GET],produces=[application/json])" onto public abstract java.util.List<com.csa.apex.secyield.entities.SecuritySECData> com.csa.apex.secyield.customer.api.CustomerDataService.getCustomerSECData(java.util.Date) throws com.csa.apex.secyield.exceptions.SECYieldException
2016-08-21 15:28:55 INFO StandaloneMockMvcBuilder$StaticRequestMappingHandlerMapping:534 - Mapped "([persistSecuritySECData],methods=[PUT],produces=[application/json])" onto public abstract boolean com.csa.apex.secyield.customer.api.CustomerDataService.persistSecuritySECData(com.csa.apex.secyield.entities.SecuritySECData) throws com.csa.apex.secyield.exceptions.SECYieldException
2016-08-21 15:28:55 INFO StandaloneMockMvcBuilder$StaticRequestMappingHandlerMapping:534 - Mapped "([calculateSecuritySECData],methods=[GET],produces=[application/json])" onto public abstract java.util.List<com.csa.apex.secyield.entities.SecuritySECData> com.csa.apex.secyield.customer.api.CustomerDataService.getCalculatedSECData(java.util.Date) throws com.csa.apex.secyield.exceptions.SECYieldException
2016-08-21 15:28:55 INFO StandaloneMockMvcBuilder$StaticRequestMappingHandlerMapping:534 - Mapped "([securitySECDataConfiguration],methods=[GET],produces=[application/json])" onto public abstract com.csa.apex.secyield.entities.SECConfiguration com.csa.apex.secyield.customer.api.CustomerDataService.getConfiguration() throws com.csa.apex.secyield.exceptions.SECYieldException
2016-08-21 15:28:55 INFO RequestMappingHandlerAdapter:539 - Looking for @ControllerAdvice: org.springframework.test.web.servlet.setup.StubWebApplicationContext@4e22368c
2016-08-21 15:28:55 INFO MockServletContext:443 - Initializing Spring FrameworkServlet ''
2016-08-21 15:28:55 INFO TestDispatcherServlet:487 - FrameworkServlet '' Initialization started
2016-08-21 15:28:55 INFO TestDispatcherServlet:506 - FrameworkServlet '' Initialization completed in 0 ms
Tests run: 7, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 2.734 sec
2016-08-21 15:28:55 INFO AnnotationConfigEmbeddedWebApplicationContext:960 - Closing org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext@bdecc21: startup date [Sun Aug 21 15:28:49 CEST 2016]; root of context hierarchy
Results :
Tests run: 16, Failures: 0, Errors: 0, Skipped: 0
[INFO] .....
[INFO] BUILD SUCCESS
[INFO] .....
[INFO] Total time: 8.378s
[INFO] Finished at: Sun Aug 21 15:28:55 CEST 2016
[INFO] Final Memory: 14M/32M
[INFO] .....

```

In secyieldapi folder, run the following command (the Customer API has to be running when executing SEC Yield API tests because the “[configuration](#)” field in com.csa.apex.secyield.api.services.impl.SECYieldServiceImpl is initialized by making a REST API call to Customer API):

```
$ mvn test
```

```

com.csa.apex.secyield.api.SECYieldController.getSecuritySECData(java.util.Date) throws com.csa.apex.secyield.exceptions.SECYieldException
2016-08-21 15:32:59 INFO RequestMappingHandlerAdapter:539 - Looking for @ControllerAdvice: org.springframework.test.web.servlet.setup.StubWebApplicationContext@676b097
2016-08-21 15:32:59 INFO MockServletContext:443 - Initializing Spring FrameworkServlet ''
2016-08-21 15:32:59 INFO TestDispatcherServlet:487 - FrameworkServlet '' Initialization started
2016-08-21 15:32:59 INFO TestDispatcherServlet:506 - FrameworkServlet '' Initialization completed in 0 ms
2016-08-21 15:32:59 WARN DefaultHandlerExceptionResolver:354 - Failed to bind request element: org.springframework.web.method.annotation.MethodArgumentTypeMismatchException: Failed to convert value of type [java.lang.String] to required type [java.util.Date]; nested exception is org.springframework.core.convert.ConversionFailedException: Failed to convert from type [java.lang.String] to type [org.springframework.web.bind.annotation.RequestParam @org.springframework.format.annotation.Date] in format java.util.Date for value 'invalid'; nested exception is java.lang.IllegalArgumentException: Invalid format: 'invalid'
2016-08-21 15:32:59 INFO StandaloneMockMvcBuilder$StaticRequestMappingHandlerMapping:534 - Mapped "([calculateSecuritySECData],methods=[GET],produces=[application/json])" onto public java.util.List<com.csa.apex.secyield.entities.SecuritySECData> com.csa.apex.secyield.api.SECYieldController.getCalculatedSecuritySECData(java.util.Date) throws com.csa.apex.secyield.exceptions.SECYieldException
2016-08-21 15:32:59 INFO StandaloneMockMvcBuilder$StaticRequestMappingHandlerMapping:534 - Mapped "([securitySECDataConfiguration],methods=[GET],produces=[application/json])" onto public void com.csa.apex.secyield.api.SECYieldController.exportCalculatedSecuritySECData(java.util.Date,java.lang.String,java.lang.String) throws com.csa.apex.secyield.exceptions.SECYieldException
2016-08-21 15:32:59 INFO StandaloneMockMvcBuilder$StaticRequestMappingHandlerMapping:534 - Mapped "([customerSecuritySECData],methods=[GET],produces=[application/json])" onto public java.util.List<com.csa.apex.secyield.entities.SecuritySECData> com.csa.apex.secyield.api.SECYieldController.getCustomerSECData(java.util.Date) throws com.csa.apex.secyield.exceptions.SECYieldException
2016-08-21 15:32:59 INFO RequestMappingHandlerAdapter:539 - Looking for @ControllerAdvice: org.springframework.test.web.servlet.setup.StubWebApplicationContext@58b91d57
2016-08-21 15:32:59 INFO MockServletContext:443 - Initializing Spring FrameworkServlet ''
2016-08-21 15:32:59 INFO TestDispatcherServlet:487 - FrameworkServlet '' Initialization started
2016-08-21 15:32:59 INFO TestDispatcherServlet:506 - FrameworkServlet '' Initialization completed in 0 ms
Tests run: 4, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.218 sec
2016-08-21 15:32:59 INFO AnnotationConfigEmbeddedWebApplicationContext:960 - Closing org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext@708f5957: startup date [Sun Aug 21 15:32:54 CEST 2016]; root of context hierarchy
Results :
Tests run: 36, Failures: 0, Errors: 0, Skipped: 0
[INFO] .....
[INFO] BUILD SUCCESS
[INFO] .....
[INFO] Total time: 8.363s
[INFO] Finished at: Sun Aug 21 15:32:59 CEST 2016
[INFO] Final Memory: 14M/32M
[INFO] .....

```

6. Resource Contact List

Name	Resource Email
TCSASSEMBLER	