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|  | EUROPEAN COMMISSION  Directorate General Regional Policy  Directorate General Employment, Social Affairs and Inclusion  Directorate General Agricultural and Rural Development  Directorate General Fisheries and Maritime Affairs  Directorate General Home Affairs |

European Commission

SFC2014 Java Web Services SDK  
Release Note

|  |  |
| --- | --- |
| Date: | 9/30/2022 |
| Version: | 3.55 |
| **SDK Release:** | **4.6.0** |
| Authors: | Vanwolleghem Bert  DEDE Evgenia |
| Revised by: |  |
| Approved by: |  |
| Public: | IT teams in the Member States working on the SFC2014 project |
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Document History

|  |  |  |  |
| --- | --- | --- | --- |
| ***Version*** | ***Date*** | ***Comment*** | ***Modified Pages*** |
| 1.0 | 21/01/2015 | Initial Version | All |
| 3.22 | 20/06/2017 | New sign actions for Accounts |  |
| 3.23 | 13/09/2017 | Fixes for the Accounts web services |  |
| 3.24 | 26/10/2017 | Implementation Report model changes | 12 |
| 3.25 | 08/12/2017 | Accounts and Implementation bugfixes |  |
| 3.26 | 18/12/2017 | Accounts AMF/ISF bugfixes |  |
| 3.27 | 08/01/2018 | Programme and implementation report changes |  |
| 3.28 | 17/01/2018 | New Accounts Ipa Cb service and Implementation report bugfix |  |
| 3.29 | 02/02/2018 | Adding to the programme service the missing common result indicator for ESF and YEI | 13 |
| 3.30 | 03/04/2018 | Bugfix for Implementation report and Quarterly Declaration Eafrd |  |
| 3.31 | 11/04/2018 | Added history records to all objects |  |
| 3.32 | 07/05/2018 | Small Bugfix for Implementation report and new ObservationService |  |
| 3.33 | 14/08/2018 | Added name field to TableOfContentItemType,  Added currentNode and PreviousNode to History |  |
| 3.34 | 08/11/2018 | New services for Annex 3 Collection of SCO Data, Annual Control Report for IGJ, ETC, EMFF, FEAD and IPA-CB and Implementation Report for IPA II Cross-Border |  |
| 3.35 | 15/01/2019 | Small bugfixes for OP and NAR |  |
| 3.36 | 06/02/2019 | Changed cciService and CommissionDecisionService |  |
| 3.37 | 11/03/2019 | Small bugfixes for DOA, IR, NAR and ACR |  |
| 3.38 | 21/03/2019 | New service Final report EGF  Added evaluation tables to Implementation report ETC, IGJ and IPA  Updated financial instruments in Implementation report EMFF, ETC, IGJ, IPA. |  |
| 3.39 | 15/04/2019 | Small bugfixes for NAR. |  |
| 3.40 | 07/05/2019 | Small bugfixes for Implementation report EMFF, ETC, IGJ, IPA. |  |
| 3.41 | 16/05/2019 | New fields in Accounts EMFF, FEAD, IGJ/ETC, IPA derived from action ‘accept partially’ |  |
| 3.42 | 05/06/2019 | New fields in Accounts AMIF/ISF derived from action ‘accept partially’. Added ‘modificationDate’ to documents. Small changes in ACR, IR (EMFF, ETC, IGJ, IPA), national programme AMIF/ISF, Quarterly declaration of expenditure. |  |
| 3.43 | 11/09/2019 | New services for Evaluation report AMIF/ISF. Attributes added to s0\_ver of programmes (EGF, ETC, IPA, EAFRD,EMFF, FEAD, IGJ) |  |
| 3.44 | 20/09/2019 | New allocation type ENI\_CBC for Operational programme EAFRD. |  |
| 3.45 | 04/11/2019 | New field acceptedFunds for action partially accept Accounts IGJ. |  |
| 3.46 | 30/04/2020 | New field useArticle25a1 in Operational programmes IGJ and Cooperation programmes ETC |  |
| 3.47 | 12/05/2020 | New field userArticle20 in Operational programmes FEAD |  |
| 3.48 | 08/06/2020 | New field useArticle28\_2a to Cooperation programmes IPACBC |  |
| 3.49 | 09/02/2020 | TLS v.1.0&v.1.1 Deactivation | 7 |
| 3.50 | 12/03/2021 | React-EU changes: New field reactEu and new section 1.1.1bis in Operational programmes IGJ and Cooperation programmes ETC; New allocation type REACT\_EU in Operation programmes EAFRD; New ObjectSubType value RE. New Section 9 on Covid measures as of 2020 AIR in Implementation report AMIF. New field reactEU in Payment application IGJ/ETC and modification in section 3 in Payment application IGJ/ETC, EMFF, FEAD and IPACBC. |  |
| 3.51 | 25/03/2021 | React-EU changes: New field reactEu in Financial Data IGJ/ETC, section 1\_3. Field reactEu in Payment applications IGJ/ETC responses, sections 1,4,5 |  |
| 3.52 | 22/12/2021 | React-EU changes: New field reactEu in Accounts IGJ/ETC appendixes 1 to 8; European innovation partnership service: removed element isCompleted and added element projectStatus; Implementation Report FEAD: added section 2.3.6 CommonResultIndicatorVoucherFeadI |  |
| 3.53 | 02/02/2022 | React-EU changes: New field reactEu in Implementation Report IGJ tables 6,7,8; in Implementation Report ETC/IPACBC tables 6,7; and in Irrecoverable Amounts SFCF s1. |  |
| 3.54 | 03/06/2022 | CARE changes: new field useArticle201b in section 4 for programmes FEAD; new field useArticle25a1a in FinancingPlanByPriorityAxis for programmes ETC, IGJ; new fields care and reactEuCare for programmes IGJ priority axes (s2\_a\_p) |  |
| 3.55 | 30/09/2022 | Fast Care changes: new field tcn in section S2\_a\_p of programmes IGJ |  |
|  |  |  |  |

# Introduction

This note presents the content and status of the SFC2014 Java Web Service Software Development Kit. The SFC2014 Java Web Service Development Kit is a package intended to help developers. It provides a set of documentation, tools, certificates and sample code.

The area covers a general overview of the SFC2014 public interface, reference to structures and operations, guidelines to interface the system with SFC2014.

# Connecting to SFC2014

## Authentication & Authorization

The authentication & authorization is maintained by a 2-way SSL connection. When requesting access to SFC2014 a Certificate Signing Request (CSR) needs to be provided.

As an example, a tool like openSSL could be used to create this file:

openssl.exe genrsa -des3 -out private.pem **2048**

openssl.exe req -new -key private.pem -verbose -sha256 -out <certificate request filename>.csr

Another way to create the certificate could be by using the java keytool command. See <https://docs.oracle.com/javase/7/docs/technotes/tools/windows/keytool.html>

Note that the key length should be at least 2048 and that no special characters should be used in the DN name. (only characters in the range[\x20-\x7E])

Only after receiving back the signed certificate a JKS can be created containing the public/private key together with the SFC2014 CA and the SFC2014 SSL CA public certificate. These CA’s can be found here:

TEST : <https://ec.europa.eu/sfc/en/system/files/sfc2014_TESTCA_TO_DISTRIBUTE.zip>

PRODUCTION: <https://ec.europa.eu/sfc/en/system/files/sfc2014_CA_PROD_TO_DISTRIBUTE.zip>

Example commands that generate the JKS after receiving the signed certificate:

openssl rsa -in private.pem -passin pass:[changeit] -out private.key

openssl pkcs12 -export -in %1.cer -inkey private.key -out %1.p12 -name [some-alias] -CAfile sfc2014\_TESTCA\_cert.pem -caname sfc2014\_TESTCA

keytool -importkeystore -deststorepass [changeit] -destkeypass [changeit] -destkeystore %1.jks -srckeystore %1.p12 -srcstoretype PKCS12 -srcstorepass [changeit] -alias [some-alias]

For more information about requesting access to SFC2014 please visit:

<https://ec.europa.eu/sfc/en/profile/wsuser>

<https://ec.europa.eu/sfc/en/helppage/USM>

## Available environments

Currently 2 environment are available:

* Production https://sfc2014.ec.europa.eu
* Acceptance/Test https://sfc2014.acceptance.ec.europa.eu

# Definitions

Document and items will be affected by a status, indicating the maturity of the document and or item. The following statuses can be assigned:

* **Alpha**: experimental release, the item has not been approved, revised, but could be an upcoming vision of what is being developed,
* **Beta**: the item has been revised, tested, and specifications are now quite stable. However, there are some known limitations, lacks. They will be fixed in a later release.
* **Stable**: the item has been approved and revised. It may remain quite stable in future release; even if this could not be insured.

# About this release – Major Changes

The SDK had been developed using. From now onwards the minimum allowed SSL protocol is TLS v1.2:

|  |  |
| --- | --- |
| TLSv1.3 | TLS\_AES\_128\_GCM\_SHA256 TLS\_CHACHA20\_POLY1305\_SHA256 TLS\_AES\_256\_GCM\_SHA384 |
| TLSv1.2 | TLS\_ECDHE\_RSA\_WITH\_AES\_128\_GCM\_SHA256 TLS\_ECDHE\_RSA\_WITH\_CHACHA20\_POLY1305\_SHA256 TLS\_ECDHE\_RSA\_WITH\_AES\_256\_GCM\_SHA384 TLS\_ECDHE\_RSA\_WITH\_AES\_128\_CBC\_SHA TLS\_ECDHE\_RSA\_WITH\_AES\_256\_CBC\_SHA |

The minimum java version required to have the TLS v1.2 enabled by default is:

[Java™ SE Development Kit 7, Update 131 Release Notes (oracle.com)](https://www.oracle.com/java/technologies/javase/7u131-relnotes.html)

## Compatibility matrix

|  |  |  |
| --- | --- | --- |
| **SFC2014 SDK VERSION** |  | **SFC2014 VERSION** |
| 3.55 | As of | 4.6.0 |

The SDK version will always follow the version of the web application. When the compatibility gets broken between older versions of the SDK and newer versions of the web application then this will be visible in the above table.

The information of which version is deployed on a given server is shown in the footer of each page of the SFC2014 web application.

The UtilityService contains a web service called "getApplicationVersion" that returns the current version number of the application.

On any webservice that has been updated, the compatibility is not guaranteed. Refer to paragraph 5 for the list of updated web services.

# Package Content

This chapter describes the files contained in the package, their purpose, and their status.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Container** | **Purpose** | **Version** | **Status** | **Comment** |
| **SFC2014-DP-093 SDK Release Node.doc** | Release Note of the SDK Package | 4.6.0 | Stable | This is this note. |
| **Javadoc** | A Javadoc explaining the provided web services | 4.6.0 | Beta | - |
| **Sample application** | To briefly show an implementation of accessing the web services | 4.6.0 | Stable |  |
| **Tester library** | API containing the wsdl/xsd for the different web services and the JAX-WS portable artifacts (SEI, JAX-B types) | 4.6.0 | Beta |  |

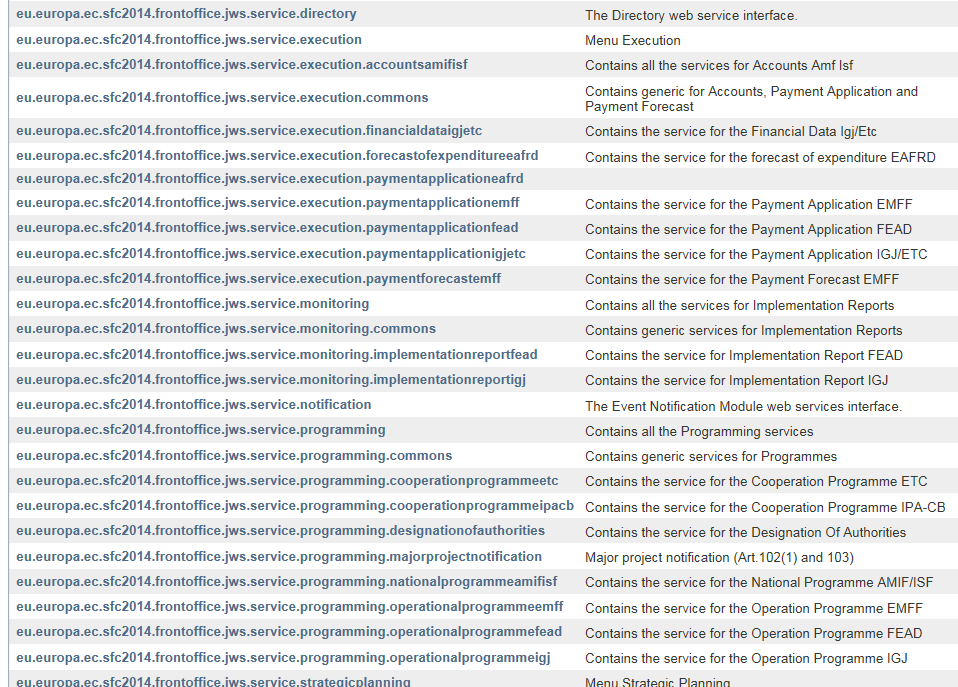
## Documentation (javadoc)

The java documentation provides information about:

* SFC2014 web services,
* SFC2014 web services types,
* Other miscellaneous information useful for the web service user.

The javadoc will mainly show 2 packages used in the SDK:

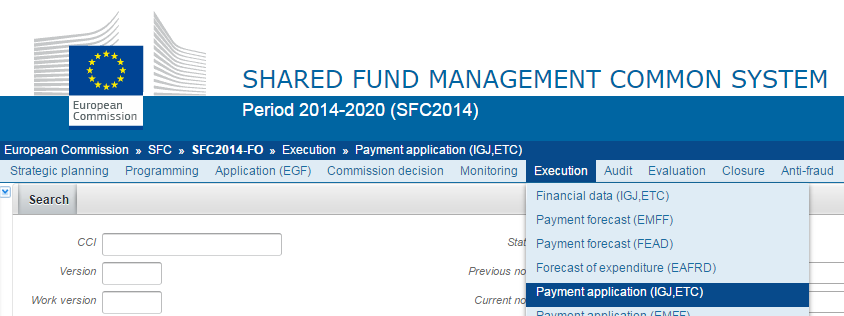
* The service packages (having the prefix "**eu.europa.ec.sfc2014.frontoffice.jws.service**")



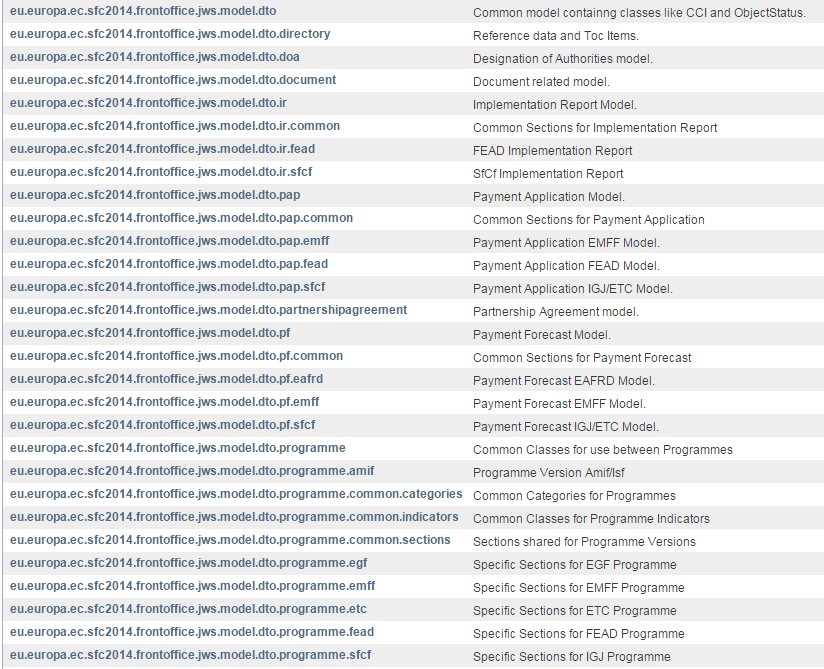
The same naming is used for the service packages as what you will find in the web application (English naming). For example the PaymentApplicationIgjEtcService from the package:



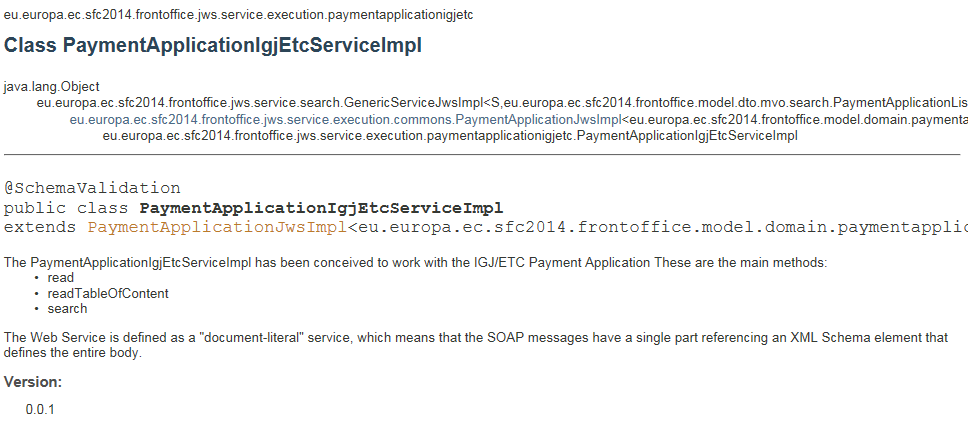
is accessible in the web application like:



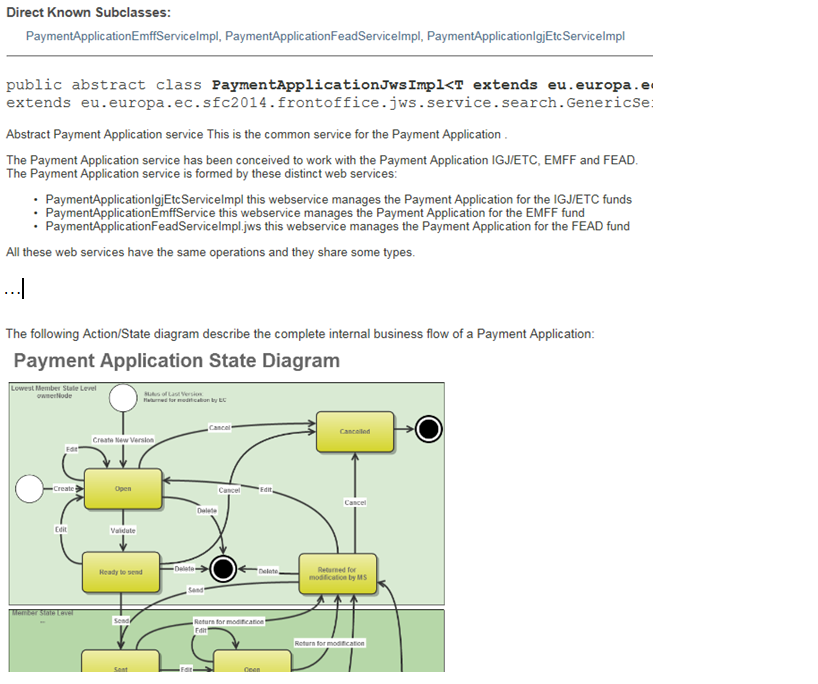
* The model packages (having the prefix "**eu.europa.ec.sfc2014.frontoffice.jws.model**")



To get more information on a service for example the PaymentApplicationIgjEtcService just click on the service and you'll get:



Clicking on the super class will give you information about the common parts of the PaymentApplication:



Each method will also contain a detailed description:



## Proxies

Proxies are the generated artifacts for SFC2014. The aim of proxies is to provide a transport abstraction layer, and web services will be seen as operations and structures.

Proxies are provided for java platforms, and are based on JAX-WS.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **File Name** | **Purpose** | **Updated** | **Status** | **Comment** |
| **AccountsAmifIsfService** | Proxy for the Accounts Service | No | Stable | Read/Write |
| **AccountsEmffService** | Proxy for the Accounts Service | No | Stable | Read/Write |
| **AccountsFeadService** | Proxy for the Accounts Service | No | Stable | Read/Write |
| **AccountsIgjEtcService** | Proxy for the Accounts Service | No | Stable | Read/Write |
| **AccountsIpaCbcService** | Proxy for the Accounts IPA CB service | No | Alpha | Read/Write |
| **Annex3CollectionService** | Proxy for the Annex 3 collection of SCO Data service | No | Beta | Read/Write |
| **AnnualControlReportService** | Proxy for the Annual Control Report for IGJ, ETC, EMFF, FEAD and IPA-CB service | No | Beta | Read/Write |
| **ApplicationEgfService** | Proxy for the ProgrammeService for EGF | No | Beta | Read only |
| **CciService** | Proxy for the Cci Request Service | No | Beta | Read/Write |
| **CommissionDecisionService** | Proxy for the commission decision | No | Beta | Read only |
| **ControlDataStatisticsService** | Proxy for the Control Data and Control Statistics (EAFRD/EAGF) | No | Alpha | Read/Write |
| **CooperationProgrammeEtcService** | Proxy for the ProgrammeService for ETC | No | Beta | Read/Write |
| **CooperationProgrammeIpaCbService** | Proxy for the Ipa Cb programme | No | Alpha | Read only |
| **DesignationOfAuthoritiesService** | Proxy for the Designation of Authorities | No | Beta | Read only |
| **DirectoryService** | Proxy for directory web service. | No | Stable | Read only |
| **DocumentAttachmentService** | Proxy for the Document Attachment Service | No | Stable | Read/Write |
| **DocumentService** | Proxy for the Document Service | No | Stable | Read/Write |
| **EuropeanInnovationPartnershipService** | Proxy for the European Innovation Partnership Service | No | Alpha | Read/Write |
| **EvaluationReportAmfIsfService** | Proxy for the Evaluation Report for AMIF/ISF | No | Beta | Read/Write |
| **FinalReportEgfService** | Proxy for the Final Report EGF | No | Beta | Read |
| **FinancialDataIgjEtcService** | Proxy for the PaymentForecast for SfCf | No | Stable | Read/Write |
| **FinancialDataIpaCbService** | Proxy for the Ipa Cb Financial Data | No | Alpha | Read/Write |
| **ForecastOfExpenditureEafrdService** | Proxy for the PaymentForecast for EAFRD | No | Stable | Read/Write |
| **ImplementationReportAmfIsfService** | Proxy for the AMFISF Implementation Report | No | Stable | Read/Write |
| **ImplementationReportBaidpService** | Proxy for the BAIDP Implementation Report | No | Beta | Read |
| **ImplementationReportEmffService** | Proxy for the Emff Implementation Report | No | Stable | Read/Write |
| **ImplementationReportEtcService** | Proxy for the ETC Implementation Report | No | Stable | Read/Write |
| **ImplementationReportFeadService** | Proxy for the Fead Implementation Report | No | Stable | Read/Write |
| **ImplementationReportIgjService** | Proxy for the IGJ Implementation Report | No | Stable | Read/Write |
| **ImplementationReportIpaCbc** | Proxy for the Implementation Report for IPA II Cross-Border Service | No | Beta | Read/Write |
| **IrrecoverableAmountsEmffService** | Proxy for the Irrecoverable Amounts Emff | No | Alpha | Read/Write |
| **IrrecoverableAmountsFeadService** | Proxy for the Irrecoverable Amounts Fead | No | Alpha | Read/Write |
| **IrrecoverableAmountsIpaCbService** | Proxy for the Irrecoverable Amounts IpaCb | No | Alpha | Read/Write |
| **IrrecoverableAmountsSfcfService** | Proxy for the Irrecoverable Amounts SfCf | No | Alpha | Read/Write |
| **MajorProjectNotificationService** | Proxy for the Major Project Notification | No | Alpha | Read only |
| **MajorProjectSubmissionService** | Proxy for the Major Project Submission | No | Alpha | Read only |
| **NationalAuditReportService** | Proxy for the National Audit Report | No | Beta | Read/Write |
| **NationalProgrammeAmifIsfService** | Proxy for the ProgrammeService for AMIF/ISF | No | Beta | Read only |
| **NotificationService** | Proxy to get/drop events received. | No | Beta | Only for web service users defined as a ‘system’ in SFC2014. |
| **ObservationService** | Proxy for the observations for all SFC2014 objects | No | Alpha | Read/Write |
| **OperationalProgrammeEafrdService** | Proy for the ProgrammeService for EAFRD | No | Beta | Read only |
| **OperationalProgrammeEmffService** | Proxy for the ProgrammeService for Emff | No | Beta | Read only |
| **OperationalProgrammeFeadService** | Proxy for the ProgrammeService for Fead | No | Beta | Read only |
| **OperationalProgrammeIgjService** | Proxy for the ProgrammeService for SfCf | Yes | Beta | Read only |
| **PartnershipAgreementService** | Proxy for the Partnership Agreement | No | Beta | Read only |
| **PaymentApplicationEmffService** | Proxy for the PaymentApplication for EMFF | No | Stable | Read/Write |
| **PaymentApplicationFeadService** | Proxy for the PaymentApplication for FEAD | No | Stable | Read/Write |
| **PaymentApplicationIgjEtcService** | Proxy for the PaymentApplication for SfCf | No | Stable | Read/Write |
| **PaymentApplicationIpaCBService** | Proxy for the Payment Application Ipa CB Service | No | Alpha | Read/Write |
| **PaymentForecastEmffService** | Proxy for the PaymentForecast for EMFF | No | Stable | Read/Write |
| **PaymentForecastFeadService** | Proxy for the PaymentForecast for FEAD | No | Stable | Read/write |
| **QuarterlyDeclarationOfExpenditureService** | Proxy for the Eafrd PaymentApplication | No | Stable | Read only |
| **UtilityService** | Web service utilities | No | Stable |  |

## Data Sending and Validation

According to Article 3(2) of Commission Implementing Regulation (EU) No 184/2014, “any transmission of information to the Commission shall be verified and submitted by a person other than the person who entered the data for that transmission. This separation of tasks shall be supported by SFC2014 or by Member State’s management and control information systems connected automatically with SFC2014.”

SFC2014 enforces the "four-eyes" principle, which means that the user who last validated an Operational Programme cannot submit it. Two different users are required; one to validate and another to send. In the case of the SFC2014 graphical user interface, this control is made by the SFC system itself. Given the impossibility to implement the four eyes principle in a machine to machine interface, when accessing SFC2014 via Web Services, each member state should take care of the implementation of the "four-eyes" principle internally in its own information system.

## Sample Application

The sample source code is delivered "as is", it is provided as an example showing a possible integration with the SFC2014 web services.

In no event shall the European Commission be liable to you or any third parties for any special, punitive, incidental, indirect or consequential damages of any kind, or any damages whatsoever, including, without limitation, those resulting from loss of use, lost data or profits, or any liability, arising out of or in connection with the use of this software.

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* the software will meet your requirements.
* the software will be uninterrupted, timely, secure or error-free.
* the results that may be obtained from the use of the software will be effective, accurate or reliable.
* the quality of the software will meet your expectations.
* any errors in the software obtained from the sample application will be corrected.

The SDK and its documentation made available on the portal:

* could include technical or other mistakes, inaccuracies or typographical errors.
* may be out of date and the European Commission makes no commitment to update such materials.

The web services provided by SFC2014 are standard web services for which different client technologies could be used. For example Java jax-ws client but also SoapUI, Apache CXF, .net, axis2, …. The sample application contains a possible java integration using JAX-WS but you are free to make your own client interface to interact with the SFC2014 web services.

The Sample application includes some useful classes that can be reused by the developer. The goal of the sample source code is to show how to invoke a secured web service, with the help of JAX-WS generated proxies. These proxies are "wsimport" generated classes: Java™ API for XML Web Services (<http://docs.oracle.com/javase/6/docs/technotes/tools/share/wsimport.html>). The sources of these generated artifacts are also provided in the SDK (frontoffice-jws-tester-sources.jar).

Please note that the library has been compiled using JDK 1.8.

### Setup

The sample code expects a Java Key Store which contains your private key, the issued certificate you received from SFC2014 together with the Certificate Authority and the Intermediate Certificate authority (CA\_SSL). Sfc2014SdkHelper.java contains *keyStorePath & keyStorePassword* that will need to be modified to fit your jks.

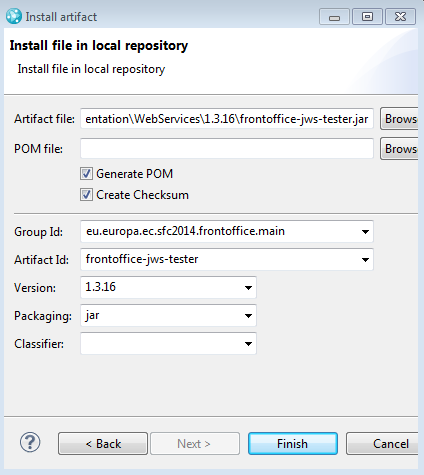
The sample application was developed using Eclipse (version=4.2.0). Once M2E plugin (http://eclipse.org/m2e/) has been installed in Eclipse, the sample project can be imported using "File" -> "Import" -> "Existing Maven Projects".

Before creating the project first import the SDK library into your local maven repository:

mvn org.apache.maven.plugins:maven-install-plugin:2.5.2:install-file "-Dfile=frontoffice-jws-tester.jar" "-Dsources=frontoffice-jws-tester-sources.jar" "-DgroupId=eu.europa.ec.sfc2014.frontoffice.main" "-DartifactId=frontoffice-jws-tester" "-Dversion=4.6.0" "-Dpackaging=jar" "-DgeneratePom=true"

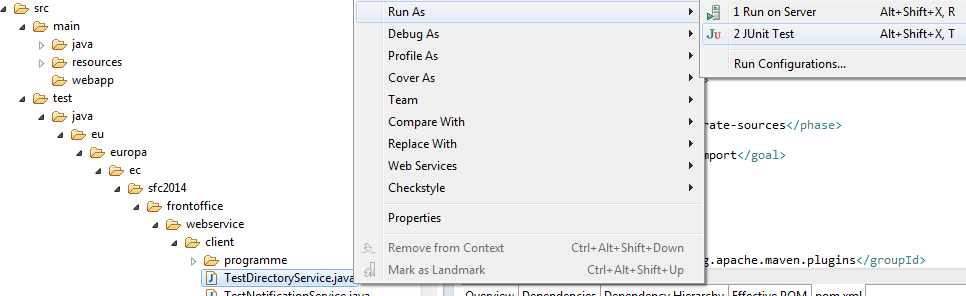
The SDK library could also be installed using the M2E plugin from within eclipse:

"File" -> "Import" -> "Install or Deploy an artifact (archive) into a Maven repository"



### JUnit Test

To test if the previous Setup has been done correctly the TestDirectoryService Junit test could be run. Right click the java file choose "Run As" -> JUnit Test:



### Calling a web service from the command prompt

mvn dependency:copy-dependencies can be used to copy all dependencies to the target\dependency directory. Afterwards the TestWebservice class can be run from the command prompt:

java -cp target\frontoffice-jws-sample-4.6.0.jar;target\dependency\\* eu.europa.ec.sfc2014.frontoffice.webservice.client.TestWebservice

### Sample Web Application

The Sample Application will also generate a WAR. The war has been tested on a weblogic server version 12.1.3. Of course this will only work after you changed the Sfc2014SdkHelper.java as described above (pointing to the correct keystore and providing the correct password). After the deployment you should be able to call a servlet at: http://localhost:7001/frontoffice-jws-sample-4.6.0/Sfc2014WebServiceTest

The expected output would be:

Result of calling getTargetAreaByCode("BE", "en"):

ReferenceDataType[

code=BE

description=Belgium

extraData=<null>

messageId=<null>

]

### SoapUI

Yet another way of accessing the SFC2014 web services is through a utility called SoapUI. (<http://www.soapui.org/about-soapui/what-is-soapui-.html>) A sample SoapUI project has been foreseen under:

frontoffice-jws-sample\src\test\SFC2014-FO-JWS-TESTER-soapui-project.xml

# Recommended approach

The document does not include any information about the business area. It is strongly advised to take that knowledge from documentation dedicated to the business description.

When using the proxies delivered by the SFC2014 team, no knowledge about Web Services and X.509 is required. For any other frameworks, the developer must learn and understand all technical mechanisms involved into SFC2014 web services interface. They include:

* TCP/IP,
* XML, XML Schema, Wsdl, Soap,
* MIME Multi - Part messages,
* X.509, SSL, TWO-WAY SSL,
* Proxies, Firewall
* HTTP, HTTPS

# Contact

You may contact the SFC20014 team in order to have answers to you questions, or to ask for software deliveries, new certificates, account creation…

To contact us, go to <https://ec.europa.eu/sfc/en/2014/contact-us>