



zenika  
<animés par la passion>

# CG WM Developer Guide

Version 1.18-SNAPSHOT

2018-08-22

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*Table 1. History*

Date	Author	Detail
2018-08-22	NeVraX	HTML AsciiDoc to Github
2018-08-17	NeVraX	HTML AsciiDoc to Github
2018-08-11	NeVraX	Anonymisation
2018-07-25	NeVraX182	adapted asciidoc to github + removed SonarQube instance
2018-07-25	NeVraX182	Images relocation
2018-07-25	bcouetil	First (real) commit

Table 2. References

Réf.	Ver.	Date	Document	Description
[01]	1.18-SNA PSH OT	2018-08-22	ci-pf-configuration.pdf	Configuration guide for the whole CI/CD platform
[02]	1.18-SNA PSH OT	2018-08-22	cgutils-utility-methods.pdf	CgUtils utility methods
[04]	1.18-SNA PSH OT	2018-08-22	cgutils-ano-handling.pdf	CgUtils ano handling
[05]	1.18-SNA PSH OT	2018-08-22	cgmsgtracker-user-manual.pdf	CgMsgTracker, UM/Broker documents tracker
[06]	1.18-SNA PSH OT	2018-08-22	cgelastic-user-manual	CgElastic, Elastic Stack custom webMethods module

# 1. Introduction



The purpose of this document is to guide you in the setup of the development environment for CG webMethods (CG-WM) project.

CG-WM gather is mainly composed of 3 projects :

- **cg-utils** (java 8)
  - utility java methods for any webMethods project (see [02])
  - includes asynchronous ano handling (see [03])
- **cg-msg-tracker** (java 8)
  - Swing application for monitoring Broker / Universal Messaging publish/subscribe documents
- **cg-elastic** (java 8)
  - Elastic Stack custom webMethods module for continuous monitoring

Developements on this project are heavily relying on the production line <https://cric.pl.s2-eu.nvx.com/> to implement Continuous Integration / Continuous Deployment / Continuous Performance Testing / Continuous Monitoring.

These projects are maintained in an Open Source mode within nvx. This can be voluntary to increase personnel knowledge, overall projects quality, or this can be part of a future or actual client need.

## How you think Open Source apps are maintained



## How Open Source apps are really maintained



CommitStrip.com

## 2. Touring the interfaces

### 2.1. FusionForge

[https://cric.pl.s2-eu.nvx.com/fusionforge/tracker/?atid=101&func=browse&group\\_id=6](https://cric.pl.s2-eu.nvx.com/fusionforge/tracker/?atid=101&func=browse&group_id=6)

Everything starts in FusionForge where tasks and tickets are put in decreasing order of need. But anyone can work on anything.

HomeMy PageProjectsSite AdminReportingCG WM Tools

SummaryAdminActivityTrackerDocsNewsFiles

### TASKS

View TrackersTASKSEXPORT CSVSubmit NewReportingMonitorAdministrationAdd widgetsCustomize Layout

Displaying results 1-52 out of 52 total. Displaying 100 results. [Change](#)

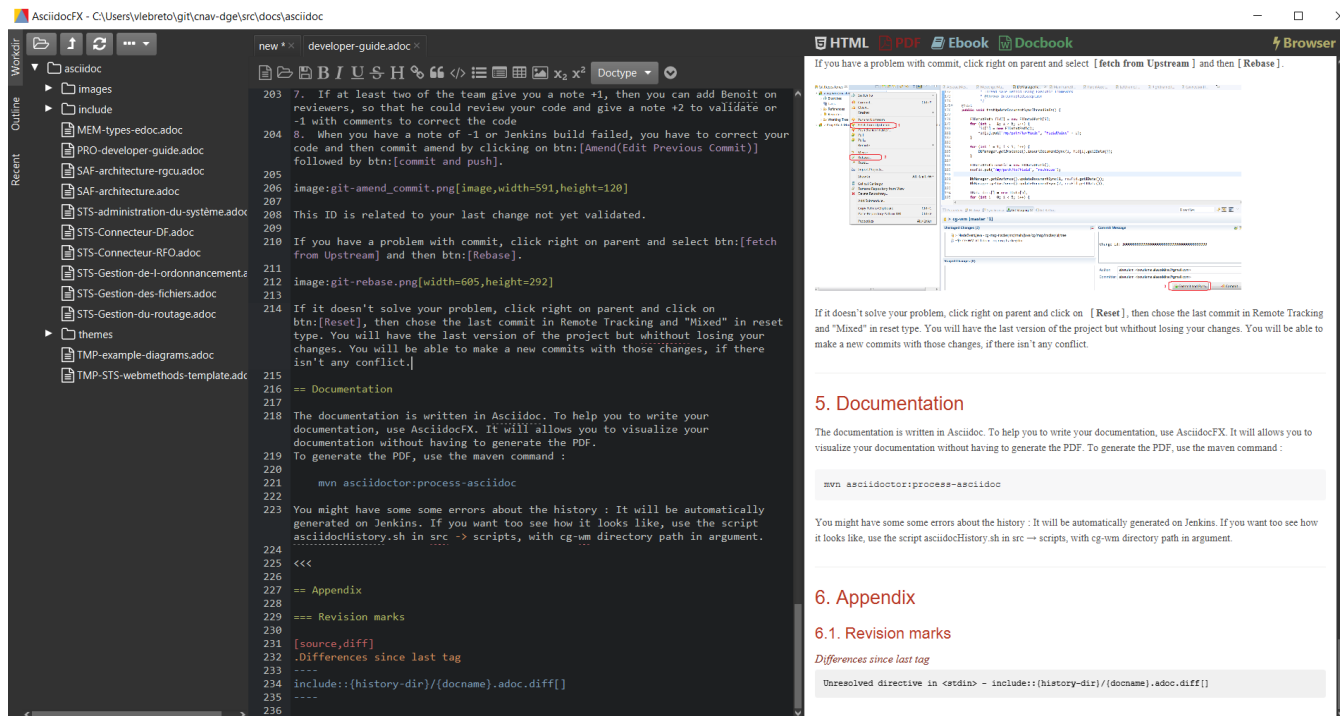
Advanced queriesSimple Filtering and Sorting

Open Build Query

Id	Module	Summary	Assigned to	Submitted by	Priority
<input type="checkbox"/> 147	cg-msg-tracker	Bug to fix - search without name - republish on search - saving configuration	Nobody	Thomas BONNIN	5
<input type="checkbox"/> 149	cg-utils	CgUtils anomaly STATUSDATE null	Nobody	Benoit COUETIL	5
<input type="checkbox"/> 135	cg-msg-tracker	Export mensuel de ce backlog	Nobody	Benoit COUETIL	5
<input type="checkbox"/> 143	cg-msg-tracker	Save directory used when imported/exported connection and document	Nobody	Thomas BONNIN	5
<input type="checkbox"/> 142	cg-elastic	Install Mediator and plug it to Elasticsearch	Nobody	Benoit COUETIL	5
<input type="checkbox"/> 84	cg-msg-tracker	Popup on startup error	Nobody	Benoit COUETIL	5
<input type="checkbox"/> 141	cg-msg-tracker	Update developer guide for german colleagues	Benoit COUETIL	Benoit COUETIL	5
<input type="checkbox"/> 96	cg-elastic	Kibana on CgElastic homepage	Nobody	Benoit COUETIL	4
<input type="checkbox"/> 140	all	Change Capgemini logo in documentations	Nobody	Benoit COUETIL	4
<input type="checkbox"/> 153	cg-elastic	Nb of files + Nb of DB entries	Nobody	Benoit COUETIL	4
<input type="checkbox"/> 132	cg-msg-tracker	BUG1 import xml code non développé	Nobody	Benoit COUETIL	4

## 2.2. AsciiDocFX

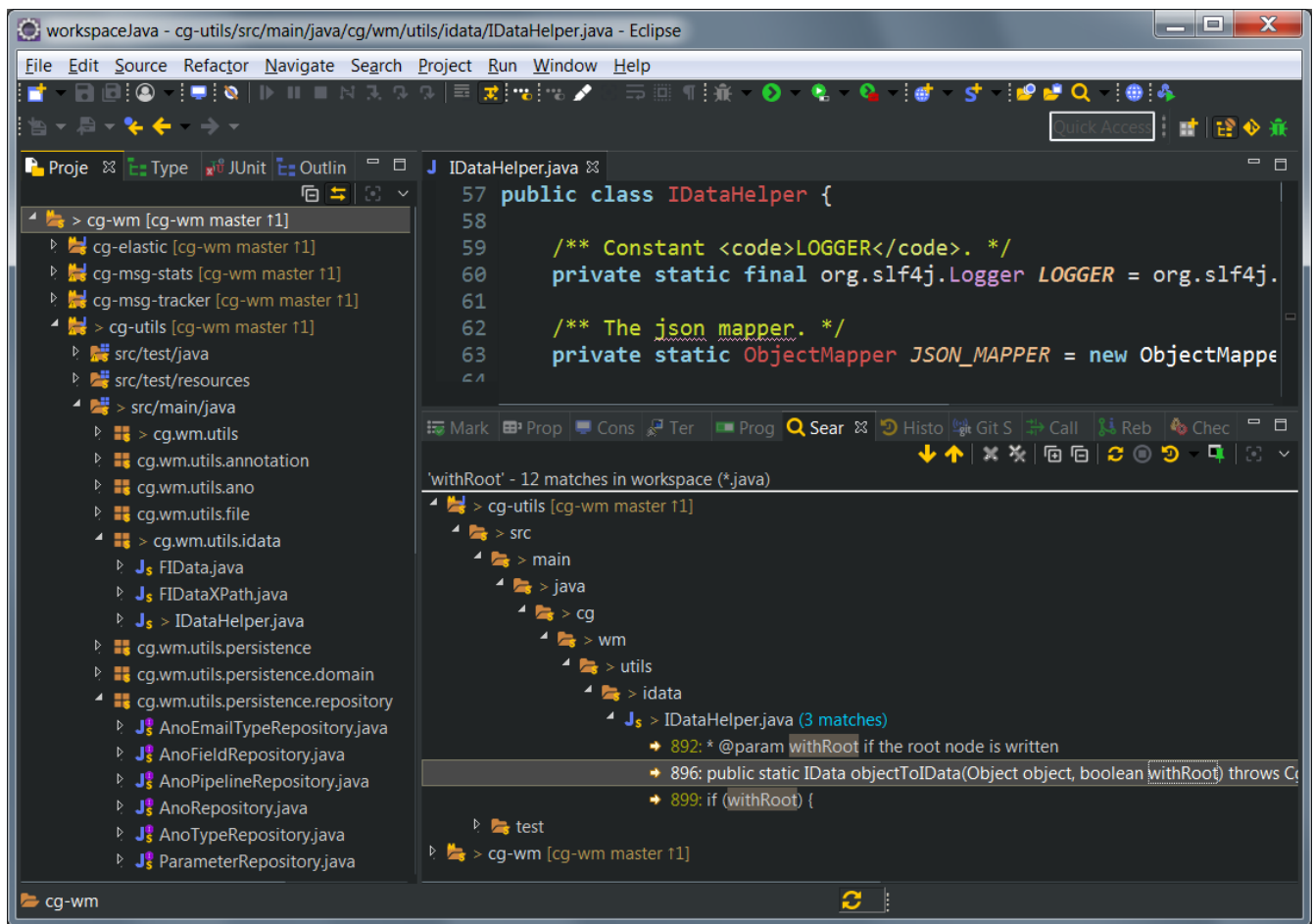
All documentations on the project, including this one, are written as part of DevOps principle Documentation-As-Code using AsciiDocFX and compiled with Asciidoctor under maven to produce PDF.





## 2.3. Eclipse

Eclipse is the preferred tool for development.



## 2.4. Gerrit

<https://cric.pl.s2-eu.nvx.com/gerrit/#/q/status:open>

ALLMYPROJECTSPEOPLEPLUGINSDOCUMENTATION

OpenMergedAbandoned

Change 578 - Needs Code-Review Label

Changement du nom des méthodes receiveAbtEntreeTR et receiveAbtEntreebatch

+ implémentation receiveAbtEntreeTRCrud

Change-Id: Ic532c9e0165e5d4873b7fcca7d69621ef5fedef1

Author: viebreto <vivien.le-breton@capgemini.com> Nov 16, 2017 11:28 AM

Committer: viebreto <vivien.le-breton@capgemini.com> Nov 20, 2017 5:09 PM

Commit: 08e85a49e069b698638278d9591c110dba53557f1 (gitweb)

Parent(s): 5c5d89be4bcd6f713e3271f7c19f1e7da4bc07a (gitweb)

Change-Id: Ic532c9e0165e5d4873b7fcca7d69621ef5fedef1

Conflicts With (1)

Minor changes

Owner: Vivien LE BRETON

Reviewers: Arnaud GIFFARD x Cedric LELION x Jenkins BPM-FACTORY x Marine BOUDARD x Othmane EL AJAJE x Rachid ABALINE x

Project: cnav-dge

Branch: master

Topic:

Strategy: Rebase if Necessary

Updated: 17 minutes ago

Cherry PickRebaseAbandon

Code-Review: -1 Marine BOUDARD x

Verified: +1 Jenkins BPM-FACTORY x

Files

File PathCommentsSize

Commit Message

dge-b2b-abt/src/main/java/cnav/isic/dge/b2b/abt/AbtConstants.java11

dge-b2b-abt/src/main/java/cnav/isic/dge/b2b/abt/Controller.java45

dge-b2b-abt/src/main/java/cnav/isic/dge/b2b/abt/Generator.java15

dge-b2b-abt/src/main/java/cnav/isic/dge/b2b/abt/Receiver.java371

dge-b2b-abt/src/test/java/cnav/isic/dge/b2b/abt/ControllerTest.java20

dge-b2b-abt/src/test/java/cnav/isic/dge/b2b/abt/ReceiverTest.java49

dge-b2b-abt/src/test/resources/File/ABT\_ENTREE\_OK.xml46

dge-b2b-abt/src/test/resources/File/ABT\_ENTREE\_OK\_2.xml43

dge-b2b-abt/src/test/resources/File/ABT\_ENTREE\_echange\_empty\_all.xml44

dge-b2b-abt/src/test/resources/File/ABT\_ENTREE\_echange\_nbdocs\_not\_same.xml44

dge-b2b-abt/src/test/resources/File/ABT\_ENTREE\_echange\_null\_all.xml44

src/docs/asciidoc/STS-connecteur-abo.adoc10

src/test/shared-resources/config/packages/DgeCommons/errorLabel.properties4

src/test/shared-resources/create-schema.sql3

+407, -342

History

Expand All

Vivien LE BRETON Uploaded patch set 1. Nov 16 11:28 AM

Jenkins BPM-FACTORY Patch Set 1: Verified-1 Build Failed (jd\_d) https://bpmfactory.s2-eu.capgemini.com/jenkins/job/CNAV-DGE\_P1\_Review/1168/: ABORTED Nov 16 11:31 AM

Vivien LE BRETON Uploaded patch set 2: Patch Set 1 was rebased. Nov 16 11:34 AM

Jenkins BPM-FACTORY Patch Set 2: Verified-1 Build Failed (jd\_d) https://bpmfactory.s2-eu.capgemini.com/jenkins/job/CNAV-DGE\_P1\_Review/1169/: FAILURE Nov 16 11:46 AM

Vivien LE BRETON Uploaded patch set 3. Nov 17 2:27 PM

Vivien LE BRETON Uploaded patch set 4. Nov 17 2:32 PM

Jenkins BPM-FACTORY Patch Set 3: Verified-1 Build Failed (jd\_d) https://bpmfactory.s2-eu.capgemini.com/jenkins/job/CNAV-DGE\_P1\_Review/1175/: ABORTED Nov 17 2:33 PM

Collaborative Code Review is applied on the project inspired from open sources projects for better scalability, quality and developer localizations tackling.



## 2.5. Jenkins

<https://cric.pl.s2-eu.nvx.com/jenkins/>

Jenkins is used for both review and merge modes to automate build and deployment. As part of DevOps principle, Pipeline-As-Code are used. The Jenkins Blue sexy interface is deployed.

✓ DGE\_P2\_DeployToDev  
396

Pipeline

Modifications

Tests

Artefacts

↺

⚙️

📄

Déconnexion

✕

Branche: —

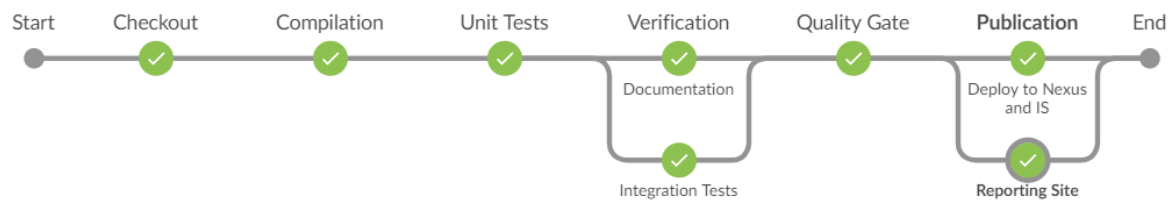
🕒 20m 22s

Modifications par benoit.couetil

Commit: —

🕒 3 hours ago

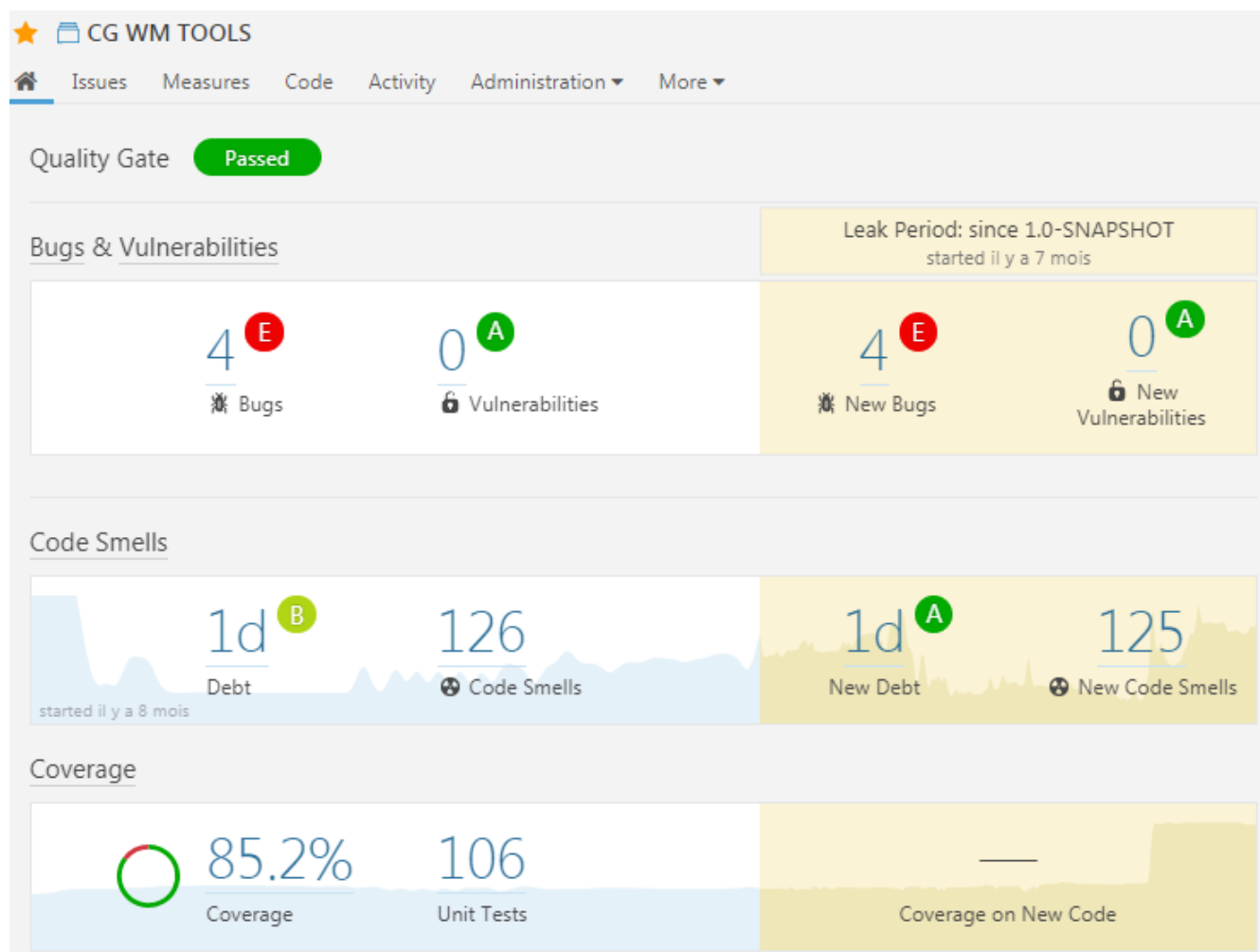
Lancé par un changement dans la base de code



## 2.6. SonarQube

<https://cric.pl.s2-eu.nvx.com/sonarqube/>

SonarQube helps maintain a continuous high quality with gateways used on each Jenkins pipeline.



## 2.7. Nexus

<https://cric.pl.s2-eu.nvx.com/nexus/>

Nexus stores binary produced on the project, SNAPSHOTs and RELEASES.

The screenshot displays the Nexus Repository Manager OSS web interface. The left sidebar contains navigation links for Sonatype™, Artifact Search, Views/Repositories, Security, Administration, and Help. The main content area is titled 'Repositories' and shows a table of configured repositories. Below the table, the 'Snapshots' section is active, displaying a tree view of the snapshot storage structure.

Repository	Type	Health Check	Format	Policy	Repository Status
Central	proxy	<b>ANALYZE</b>	maven2	Release	In Service
Central M1 shadow	virtual	<b>ANALYZE</b>	maven1	Release	In Service
Releases	hosted	<b>ANALYZE</b>	maven2	Release	In Service
Sites	hosted	<b>ANALYZE</b>	maven2	Release	In Service
Snapshots	hosted	<b>ANALYZE</b>	maven2	Snapshot	In Service
Sonatype Snapshots	proxy	<b>ANALYZE</b>	maven2	Snapshot	In Service
Wakaleo	proxy	0 0	maven2	Release	In Service

**Snapshots**

Browse Index | **Browse Storage** | Configuration | Routing | Summary

Refresh Path Lookup: [ ]

- Snapshots
  - cg
    - wm
      - cg-elastic
      - cg-msg-stats
      - cg-msg-tracker
      - cg-utils
      - cg-wm

## 2.8. Integration Server

<http://frpardge.corp.nvx.com:5555/>

A basic webMethods 9.12 ecosystem, including Integration Server, Oracle XE Database, CentraSite, Mediator, Universal Messaging, is accessible for development and tests. Assets are automatically deployed on merges by Jenkins.

**WEBMETHODS** Integration Server default :: frpardge.corp.capgemini.com :: Administrator

▼ **Server**

Scheduler

Service Usage

**Statistics**

► **Logs**

► **Packages**

► **Solutions**

► **Adapters**

► **webMethods Cloud**

► **Security**

► **Settings**

Server > Statistics

**Usage**

	Current	Peak	Limit
Total Sessions	<a href="#">84</a>	287	-
Licensed Sessions	0	1	2147483647
Stateful Sessions	0	1	2147483647
Service Instances	0	37	-
Service Threads	0	29	-
System Threads	<a href="#">478</a>	483	-
Uptime	10h:31m:25s		

**Memory**

Maximum	932352 KB		
Committed	792064 KB		
Used	507128 KB	65% (memory)	<div></div>
Free	284936 KB	35%	<div></div>

Memory Usage (average per hour)

## 2.9. Elastic Stack

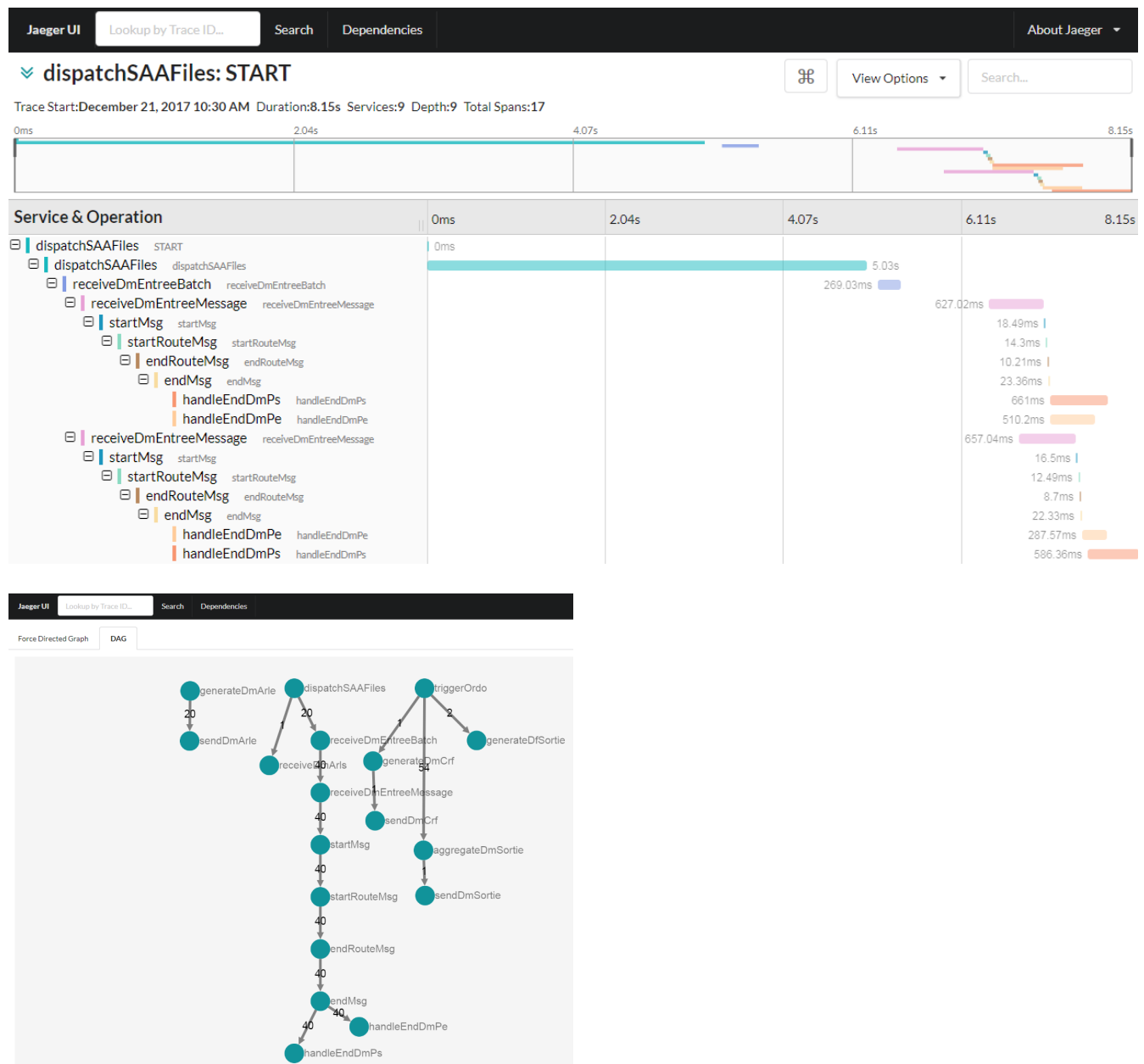
<http://frpardge:5601/app/kibana#/dashboard/44bbf690-ab4d-11e7-80b8-ef10d01e4f2a>

The Elastic Stack is used for Continuous Monitoring.



## 2.10. Jaeger tracing

<http://frpardge.corp.nvix.com:16686/>



CgUtils implements open-tracing, and send them to a Jaeger server. This allows a fine grained follow up on the business process level, a field where the Elastic Stack cannot go for now.



## 2.11. Maven

- Change the conf/setting.xml of the installed maven, by adding the below tags

```
<server>
  <id>nexus-local</id>
  <username>svc-fr-cric</username>
  <password>ESBpwd2018</password>
</server>
```

```
<mirrors>
  <mirror>
    <id>nexus-local</id>
    <mirrorOf>*</mirrorOf>
    <url>https://cric.pl.s2-eu.nvx.com/nexus3/repository/maven-public</url>
  </mirror>
</mirrors>
```

```
<profiles>
  <profile>
    <id>nexus-local</id>
    <repositories>
      <repository>
        <id>central</id>
        <url>http://central</url>
        <releases>
          <enabled>true</enabled>
        </releases>
        <snapshots>
          <enabled>true</enabled>
        </snapshots>
      </repository>
    </repositories>

    <pluginRepositories>
      <pluginRepository>
        <id>central</id>
        <url>http://central</url>
        <releases>
          <enabled>true</enabled>
        </releases>
        <snapshots>
          <enabled>true</enabled>
        </snapshots>
      </pluginRepository>
    </pluginRepositories>

    <properties>
      <snapshotUrl>https://cric.pl.s2-eu.nvx.com/nexus3/repository/maven-snapshots</snapshotUrl>
      <releaseUrl>https://cric.pl.s2-eu.nvx.com/nexus3/repository/maven-releases</releaseUrl>
    </properties>

  </profile>
</profiles>
```

```
<activeProfiles>
  <activeProfile>nexus-local</activeProfile>
</activeProfiles>
```

- Change the conf/setting.xml of the installed maven, by adding the below tags

```
<server>
  <id>nexus-local</id>
  <username>svc-fr-cric</username>
  <password>ESBpwd2018</password>
</server>
```

```
<mirrors>
  <mirror>
    <id>nexus-local</id>
    <mirrorOf>*</mirrorOf>
    <url>https://cric.pl.s2-eu.nvx.com/nexus3/repository/maven-public/</url>
  </mirror>
</mirrors>
```

```
<profiles>
  <profile>
    <id>nexus-local</id>
    <repositories>
      <repository>
        <id>central</id>
        <url>http://central</url>
        <releases>
          <enabled>true</enabled>
        </releases>
        <snapshots>
          <enabled>true</enabled>
        </snapshots>
      </repository>
    </repositories>

    <pluginRepositories>
      <pluginRepository>
        <id>central</id>
        <url>http://central</url>
        <releases>
          <enabled>true</enabled>
        </releases>
        <snapshots>
          <enabled>true</enabled>
        </snapshots>
      </pluginRepository>
    </pluginRepositories>

    <properties>
      <snapshotUrl>https://cric.pl.s2-eu.nvx.com/nexus3/repository/maven-snapshots/</snapshotUrl>
      <releaseUrl>https://cric.pl.s2-eu.nvx.com/nexus3/repository/maven-releases/</releaseUrl>
    </properties>
  </profile>
</profiles>
```

```
<activeProfiles>
  <activeProfile>nexus-local</activeProfile>
</activeProfiles>
```

- Change the conf/setting.xml of the installed maven, by adding the below tags

```
<server>
  <id>nexus-local</id>
  <username>svc-fr-cric</username>
  <password>ESBpwd2018</password>
</server>
```

```
<mirrors>
  <mirror>
    <id>nexus-local</id>
    <mirrorOf>*</mirrorOf>
    <url>https://cric.pl.s2-eu.nvx.com/nexus3/repository/maven-public/</url>
  </mirror>
</mirrors>
```

```
<profiles>
  <profile>
    <id>nexus-local</id>
    <repositories>
      <repository>
        <id>central</id>
        <url>http://central</url>
        <releases>
          <enabled>true</enabled>
        </releases>
        <snapshots>
          <enabled>true</enabled>
        </snapshots>
      </repository>
    </repositories>

    <pluginRepositories>
      <pluginRepository>
        <id>central</id>
        <url>http://central</url>
        <releases>
          <enabled>true</enabled>
        </releases>
        <snapshots>
          <enabled>true</enabled>
        </snapshots>
      </pluginRepository>
    </pluginRepositories>

    <properties>
      <snapshotUrl>https://cric.pl.s2-eu.nvx.com/nexus3/repository/maven-snapshots/</snapshotUrl>
      <releaseUrl>https://cric.pl.s2-eu.nvx.com/nexus3/repository/maven-releases/</releaseUrl>
    </properties>

  </profile>
</profiles>
```

```
<activeProfiles>
  <activeProfile>nexus-local</activeProfile>
</activeProfiles>
```

## 3. Appendix

### 3.1. Revision marks

*Differences since last tag*

