

Siebel 5.3 - Onboarding with AIP Console

- Prerequisites
- Step 1 - Repository extraction
 - Configure Siebel-Extract-CLI.bat
 - RDBMS access parameters
 - Siebel repository access parameters
 - Run the batch file
 - Batch file logging
- Step 2 - .project file configuration
 - <SiebelProjectConfig>
 - <SiebelApplication> - optional
 - <QualityRule> and <Parameter>
- Step 3 - configure source code
- Step 4 - create Version, deliver source code and run analysis/snapshot
- Step 5 - check results



Summary: this page explains how to onboard a new Siebel application with **AIP Console** and work the process of analyzing the source code and generating a snapshot.

Note that AIP Console automates a large part of the configuration process for analyzing Siebel technologies, as such, if you have previously been using the legacy CAST Management Studio to run your analyses, you will find that some of the steps required for CAST Management Studio are not mentioned in the instructions below. This is not an omission, it is simply because these steps are now automated and do not require manual intervention.

Prerequisites

AIP Core	8.3.39																																						
AIP Console	1.27.0-funcrel																																						
Extension	5.3.0 (this will be installed automatically by AIP Console).																																						
	<div style="border: 1px solid #ccc; padding: 5px;"> Note however, that a batch file (Siebel-Extract-CLI.bat) is required to perform the repository extraction (see below) and this file is provided in the Therefore if you are onboarding a new application, the Siebel extension will not yet be available on the AIP Node: if this is the case, you can download extension (https://extend.castsoftware.com/#/extension?id=com.castsoftware.siebel&version=latest) and extract (using 7Zip or similar) to </div>																																						
Application creation	<p>Two applications should be created in AIP Console, for the Vanilla and Project repositories. See Add a new Application for more information about this. They should be named as follows:</p> <ul style="list-style-type: none"> • "Siebel_Project" • "Siebel_Vanilla" <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Application (3) ↑</th> <th style="width: 20%;">Version</th> <th style="width: 10%;">App Domain</th> <th style="width: 10%;">Version Status</th> <th style="width: 10%;">Last Action Status</th> <th style="width: 10%;">Next Action</th> </tr> </thead> <tbody> <tr> <td>Siebel_Project</td> <td></td> <td></td> <td></td> <td style="text-align: center;">●</td> <td style="text-align: right;"><input type="button" value="Add version"/></td> </tr> <tr> <td>Siebel_Vanilla</td> <td></td> <td></td> <td></td> <td style="text-align: center;">●</td> <td style="text-align: right;"><input type="button" value="Add version"/></td> </tr> </tbody> </table> </div> <p>Here are some indicative Application schema sizes for a large Siebel analysis (3.4 GB of source code):</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>Schema</th> <th>Data</th> <th>Index</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Management schema</td> <td>0.163 GB</td> <td>-</td> <td>0.163 GB</td> </tr> <tr> <td>Dashboard schema</td> <td>1.5 GB</td> <td>1.5 GB</td> <td>3 GB</td> </tr> <tr> <td>Project Analysis schema</td> <td>7 GB</td> <td>7 GB</td> <td>14 GB</td> </tr> <tr> <td>Vanilla Analysis schema</td> <td>5 GB</td> <td>6 GB</td> <td>11 GB</td> </tr> </tbody> </table>	Application (3) ↑	Version	App Domain	Version Status	Last Action Status	Next Action	Siebel_Project				●	<input type="button" value="Add version"/>	Siebel_Vanilla				●	<input type="button" value="Add version"/>	Schema	Data	Index	Total	Management schema	0.163 GB	-	0.163 GB	Dashboard schema	1.5 GB	1.5 GB	3 GB	Project Analysis schema	7 GB	7 GB	14 GB	Vanilla Analysis schema	5 GB	6 GB	11 GB
Application (3) ↑	Version	App Domain	Version Status	Last Action Status	Next Action																																		
Siebel_Project				●	<input type="button" value="Add version"/>																																		
Siebel_Vanilla				●	<input type="button" value="Add version"/>																																		
Schema	Data	Index	Total																																				
Management schema	0.163 GB	-	0.163 GB																																				
Dashboard schema	1.5 GB	1.5 GB	3 GB																																				
Project Analysis schema	7 GB	7 GB	14 GB																																				
Vanilla Analysis schema	5 GB	6 GB	11 GB																																				

Repository extraction	AIP Console only accepts .castextraction files generated by the CAST Database Extractor , in other words, the Vanilla and Project repository extraction outside of AIP Console (see below for more information). Note that for the Project repository extraction , this file must be named with the exact same prefix as used for the project file, for example if you name the file SiebelExtract_Project.castextraction , the .project file must be named SiebelExtract_Project.project .
.project file for Project repository	A .project text file must be configured and delivered with the .castextraction file for the Project repository. This file configures rule parameters and other parameters (see below for more information). Note that this file must be named with the exact same prefix as used for the Project repository .castextraction file, for example if you name the .project file SiebelExtract_Project.project , the .castextraction file must be named SiebelExtract_Project.castextraction .

Step 1 - Repository extraction

The Vanilla and Project repositories must be extracted to **.castextraction** files using the **CAST Database Extractor** (which can be downloaded from <https://extend.castsoftware.com/#/extension?id=com.castsoftware.aip.extractor.sqldatabase&version=latest>). A tailor made **batch file** provided in the Siebel extension is available for running the offline extraction with the **CAST Database Extractor** - this should be used and can be found in the following location in the extension:

```
com.castsoftware.siebel.<version>\TOOLS\OfflineExtraction\Siebel-Extract-CLI.bat
```

This batch file will need modification BEFORE you run it - this is so that it can be tailored to the RDBMS on which your Siebel repositories are hosted and which you want to extract - see the sections below.

Configure Siebel-Extract-CLI.bat

Find the following sections in the batch file and modify them to match your environment:

RDBMS access parameters

Find the section **rem Database parameters = Access to the database hosting the Siebel repository**:

<pre>rem for Oracle : oracle rem for SQL Server : mssql rem for DB2 : db2 SET DBTYPE=<PARAM></pre>	<p>You must set this option to match the target RDBMS. For example for a Microsoft SQL Server:</p> <pre>SET DBTYPE=mssql</pre>
<pre>rem either a host or an IP SET SERVER_NAME=<PARAM> SET PORTNUMBER=<PARAM> SET DATABASE_NAME=<PARAM></pre>	<p>Enter the three fields, for example, for a Microsoft SQL Server:</p> <pre>SET SERVER_NAME=MY_HOST SET PORTNUMBER=1433 SET DATABASE_NAME=MY_DB</pre> <p>Hints:</p> <ul style="list-style-type: none"> • SET SERVER_NAME - enter an IP address or host name • SET PORTNUMBER : <ul style="list-style-type: none"> • DB2 = 50000 • Oracle = 1521 (as per the Tnsname.ora file) • Microsoft SQL Server = 1433 • SET DATABASE_NAME : <ul style="list-style-type: none"> • DB2 = The DB2 database name • Oracle = Either the Service name as per the Tnsname.ora file, or the SID (System ID) as per the Tnsname.ora file • Microsoft SQL Server = The instance name
<pre>rem <CHOOSE> %JDBC_URL_ORACLE_SID% or % JDBC_URL_ORACLE_SERVICE% SET JDBC_URL_ORACLE=% JDBC_URL_ORACLE_SID%</pre>	<p>When targeting an Oracle Server, you must choose one parameter or the other. E.g. if you define a Service name in SET DATABASE_NAME, you should change the line to:</p> <pre>SET JDBC_URL_ORACLE=%JDBC_URL_ORACLE_SERVICE%</pre>
<pre>rem <CHOOSE> % JDBC_URL_SQLSERVER_DEFAULT% or % JDBC_URL_SQLSERVER_INSTANCE% SET JDBC_URL_SQLSERVER=% JDBC_URL_SQLSERVER_DEFAULT%</pre>	<p>When targeting an Microsoft SQL Server, you must choose one parameter or the other. E.g:</p> <ul style="list-style-type: none"> • if your server only requires a port number for access, you should choose: % JDBC_URL_SQLSERVER_DEFAULT% • if your server requires and instance name and port number, you should choose: % JDBC_URL_SQLSERVER_INSTANCE%

<pre>rem user used for the SQL connection rem SET /p DBUSER="CONNECTION USER: " SET DBUSER=<PARAM> rem SET /p DBPWD="CONNECTION PASSWORD: " SET DBPWD=<PARAM></pre>	<p>For Microsoft SQL Server only, this option determines the credentials that should be used to access the RDBMS. For example:</p> <pre>rem user used for the SQL connection rem SET /p DBUSER="CONNECTION USER: " SET DBUSER=sa rem SET /p DBPWD="CONNECTION PASSWORD: " SET DBPWD=some_password</pre>
---	--

Siebel repository access parameters

Find the section **rem Siebel parameters = Access to the Siebel repository:**

<pre>rem user that contains the tables SET SCHEMA=<PARAM></pre>	<p>Schema/database in which the Siebel tables are stored:</p> <ul style="list-style-type: none"> • Oracle USER name • DB2 schema name • Microsoft database name <p>For example:</p> <pre>SET SCHEMA=MY_DB</pre>
<pre>rem Repository type = Vanilla or Project SET PROJECT_NAME=<PARAM></pre>	<p>Choose Vanilla when you specify the "Vanilla" repository ID (see below). Choose Project when you specify the "Project" repository ID (see below):</p> <pre>SET PROJECT_NAME=Project</pre>
<pre>rem Repository ID SET REPOSITORY_ID=<PARAM></pre>	<p>Target Repository ID you want to extract. Must be in synch with item Repository Type above:</p> <pre>SET REPOSITORY_ID=Project</pre> <div style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <p> For Project, this value may change from one version to another.</p> <ul style="list-style-type: none"> • In 5.2.3, the extraction process will detect if the Project or Vanilla's Repository ID has been used for both Vanilla and Project extractions (using the same repository ID for both Vanilla and Project must be avoided). An error message will be added to the log file if this is the case (see below). <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> <p>SIEBEL-105 VANILLA and PROJECT Repository Id should not be same. Refer to the documentation.</p> </div> </div>
<pre>rem Repository version. Either 7.5, 7.6, 7.7, 7.8, 8.0, 8.1 SET REPOSITORY_VERSION=<PARAM></pre>	<p>Choose the Siebel version in your target repositories:</p> <pre>SET REPOSITORY_VERSION=8.1</pre>
<pre>rem List of application names separated by a comma SET APPLICATION_LIST=<PARAM></pre>	<p>Define a comma separated list of applications involved in the Siebel repository that you want to extract. For example:</p> <pre>SET APPLICATION_LIST=Siebel Sales Enterprise,Siebel Power Communications</pre>

Run the batch file

When you run the batch file on each Siebel repository, the resulting output should be **one .castextraction file** for each repository, for example:

- SiebelExtract_Vanilla.castextraction
- SiebelExtract_Project.castextraction

These files need to be delivered to AIP Console - see below.

Batch file logging

The batch file will generate logs inside the folder defined in the parameter "ROOT_FOLDER", as follows:

- a sub-folder "**01_Results**" that contains the extraction file (**SiebelExtract_Project.castextraction** or **SiebelExtract_Vanilla.castextraction**)
- a sub-folder "**log**" that contains the extraction log file (**ExtractorLog_Project.log** or **ExtractorLog_Vanilla.log**) and the execution file (**Project.log** or **Vanilla.log**)

The execution log file gives you the status of the execution:

Situation	Message	What should you do?
When the execution is successful.	Extraction was successful !	Nothing.
When an error is identified, the return code of the extraction is interpreted and a functional message ERROR_MESSAGE is displayed.	Error while extracting Siebel Project : % ERROR_MESSAGE% <ul style="list-style-type: none"> • 1000: Missing configuration file % CONFIG_FILE%. • 1001: Check the log file % EXECUTION_LOG_FILE%. • 2000: Unable to establish a connection. Check the log file % EXECUTION_LOG_FILE%. • 2001: Error during the extraction. Check the log file % EXECUTION_LOG_FILE%. • Other: Java error. Contact CAST Support. 	<ul style="list-style-type: none"> • Please checks the logs, fix the configuration and retry the extraction. • If the issue is not a configuration issue, please contact the CAST Support.

Step 2 - .project file configuration

 Note that this file must be named with the **exact same prefix** as used for the Project repository .castextraction file, for example if you name the file **SiebelExtract_Project.project**, the .castextraction file must be named **SiebelExtract_Project.castextraction**.

The **Project repository** requires a **.project** configuration file that defines specific information required during the analysis:

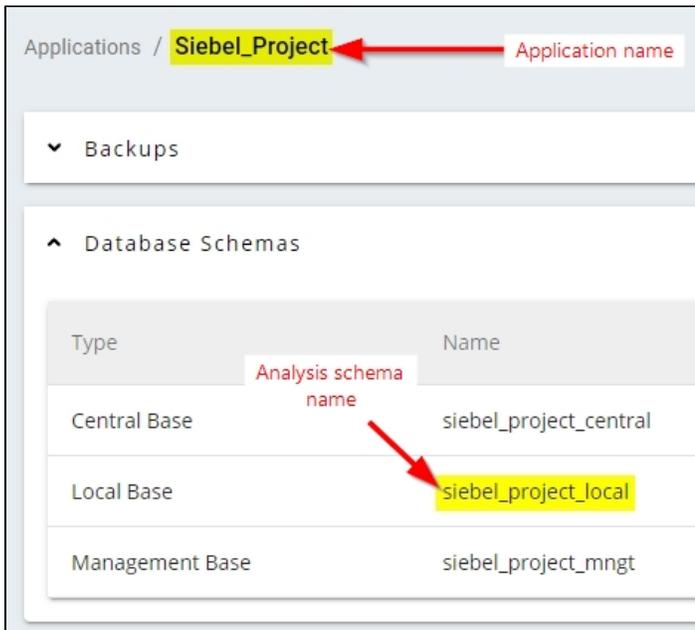
- The name of the Vanilla application or Analysis schema
- Definition of Siebel specific rule contextual parameters

Below is a template .project file - items in square brackets need to be manually defined:

```
<SiebelProjectConfig vanillaApplication="[application_name_or_analysis_schema_name]">
  <SiebelApplication name="[siebel_app_name]" vanillaName="[app_name_in_vanilla]"/>
  <QualityRule id="[rule_id]">
    <Parameter name="[parameter_name]" value="[parameter_value]"/>
  </QualityRule>
  <QualityRuleGroup name="companyPrefix" active="[true_or_false]">
    <QualityRule id="[rule_id]" active="[true_or_false]">
      <Parameter name="[parameter_name]" value="[parameter_value]"/>
    </QualityRule>
  </QualityRuleGroup>
</SiebelProjectConfig>
```

<SiebelProjectConfig>

This opening tag is required and defines the name of the Vanilla application defined in AIP Console. You can define either the **Application name**, or the corresponding **Analysis schema name**. Both are highlighted below and can be found in the AIP Console Admin Center (see [Administration Center - Applications - Application Details](#)):



In the above example, this would give the following when using the **Application Name**:

```
<SiebelProjectConfig vanillaApplication="Siebel_Project">
</SiebelProjectConfig>
```

<SiebelApplication> - optional

This line is optional and should only be used when the **Siebel application name** in the Project repository is **not identical** to the name used in the Vanilla repository. This can sometimes occur when the Siebel application name has been renamed manually in the Project repository. In the following example, the name in the Project repository is "Siebel eService" and the name in the Vanilla repository is "Siebel eService Default":

```
<SiebelApplication name="Siebel eService" vanillaName="Siebel eService Default"/>
```

<QualityRule> and <Parameter>

This section allows you to define the **contextual parameters** for specific Siebel rules that will be triggered during the analysis, specifically to adapt them to your own environment. Use the tables below to create the entries you need. Note that if you DO NOT define an entry for a rule in the .project file, then the rule WILL be triggered during the analysis, but will use the default parameter values provided in the Assessment Model.

Multiple values, char: as they are related to naming convention, they must be adapted to the project:

MetricID (external ID)	Rule name	Parameter name	Default value	Project value
1520380	Siebel: Applet's name should contain the type	Siebel: Suffix Applet - Association List	Assoc Applet	
		Siebel: Suffix Applet - Detail	Detail Applet or Popup Applet	
		Siebel: Suffix Applet - MVG	Mvg Applet	MVG Applet
		Siebel: Suffix Applet - Pick List	PickList Applet	Pick Applet
		Siebel: Suffix Applet - Playbar	Playbar Applet	
		Siebel: Suffix Applet - Standard	Standard Applet	
		Siebel: Suffix Applet - Task	Task Applet	Form Applet
1521700	Siebel: Table's name should have a designated prefix like XX_LABEL	Siebel: Prefix Table	CX_	

1521702	Siebel: Business Component's name should begin with Company prefix	Siebel: Prefix Business Component	AM_	ACME_
1521704	Siebel: Applet's name should begin with Company prefix	Siebel: Prefix Applet	AM_	ACME_
1521706	Siebel: View's name should begin with Company prefix	Siebel: Prefix View	AM_	ACME_
1521708	Siebel: Screen's name should begin with Company prefix	Siebel: Prefix Screen	AM_	ACME_
1521710	Siebel: Business Object's name should begin with Company prefix	Siebel: Prefix Business Object	AM_	ACME_
1521712	Siebel: Business Service's name should begin with Company prefix	Siebel: Prefix Business Service	AM_	ACME_

Single value, numerical: As a first approach, you can stick to the default values:

MetricID (external ID)	Rule name	Parameter name	Default value	Project Value
1520180	Siebel eScript: Avoid Functions with High Cyclomatic Complexity	Siebel: Max CC	15	
1520442	Siebel eScript: Avoid Functions with a low comment/code ratio	Siebel: Min comment ratio	5	
1520494	Siebel eScript: Avoid complex PreGetFieldValue Functions	Siebel: Max LoC for PreGetFieldValue	50	
1520540	Siebel: Avoid too many MVG on list applet	Siebel: Max MVG Applet	5	
1520726	Siebel eScript: Avoid putting all code in the Applet_PreInvokeMethod event	Siebel: Max LoC for Service_PreInvokeMethod	20	
1520728	Siebel eScript: Avoid putting all code in the Service_PreInvokeMethod event	Siebel: Max LoC for Service_PreInvokeMethod	20	
1520730	Siebel eScript: Prefer SWITCH over nested IF-THEN-ELSE in Functions	Siebel: Max Nested IF	5	
1520734	Siebel eScript: Avoid using multiple conditions in IF constructions in Functions	Siebel: Max Condition in IF	5	
1520860	Siebel: Avoid Business Objects referencing too many Business Components	Siebel: Max Buscomp	50	
1520862	Siebel: Avoid Business Components referencing more than X tables	Siebel: Max Table	40	
1520864	SiebelReview: Too Many Applets on a View	Siebel: Max Applet	10	
1520866	SiebelReview: Excessive Number of List Columns in a List Applet	Siebel: Max number of columns	50	
1520868	Siebel eScript: Avoid Functions with more than X variables	Siebel: Max Variables	15	
1520880	Siebel eScript: Avoid Functions with more than X Lines of Code	Siebel: Max LoC	50	

In the following example, we have changed two contextual parameters for the rule **1520380** (Siebel: Applet's name should contain the type), and one parameter value for the rule **1521702** (Siebel: Business Component's name should begin with Company prefix):

```
<QualityRule id="1520380">
  <Parameter name="Siebel: Suffix Applet - MVG" value="MVG Applet"/>
  <Parameter name="Siebel: Suffix Applet - Pick List" value="Pick Applet"/>
</QualityRule>
<QualityRule id="1521702">
  <Parameter name="Siebel: Prefix Business Component" value="ACME_" />
</QualityRule>
```

Step 3 - configure source code

You now need to configure the source code to deliver in AIP Console. There are two ways to deliver the source code, either in a **ZIP file**, or via a [Source Folder Location](#):

Vanilla repository	<p>Place the SiebelExtract_Vanilla.castextraction file (resulting from the extraction process in Step 1) in a folder called Vanilla. If you want to:</p> <ul style="list-style-type: none"> • deliver via ZIP file, zip the folder called Vanilla to create a zip file called Vanilla.zip. • deliver via a Source Folder Location, copy the Vanilla folder to your defined Source Folder Location
---------------------------	---

Project repository	<p>Place the following files in a folder called Project - note that the prefix of each file must be identical the other:</p> <ul style="list-style-type: none">• SiebelExtract_Project.castextraction file (resulting from the extraction process in Step 1)• SiebelExtract_Project.project file (resulting from the configuration process in Step 2) <p>If you want to:</p> <ul style="list-style-type: none">• deliver via ZIP file, zip the folder called Project to create a zip file called Project.zip.• deliver via a Source Folder Location, copy the Project folder to your defined Source Folder Location
---------------------------	---

Step 4 - create Version, deliver source code and run analysis/snapshot

For each Application (Vanilla and Project) that you have created in AIP Console, you need to now deliver the source code configured in Step 3 and run the analysis/snapshot. In AIP Console, the process can be done in small steps, or in one go, and each is explained in more detail in:

- [Standard onboarding - add a new Version - deliver code - generate snapshot](#)
- [Advanced onboarding](#)

It is very important that you run the analysis and snapshot for the **Vanilla application BEFORE** you run the analysis and snapshot for the **Project application**.

Step 5 - check results

When the snapshot has been completed for both repositories, CAST highly recommends that you check the results. This process is explained in more detail in [Standard onboarding - check results](#).



All Siebel applications will have critical and non-critical violations. This is inherent to this development environment. So even with low customization ratios, the number of critical and non-critical violations will be 100s or 1000s.