Code Delivery Guidelines for

**Project Name**

**<Customer Name>**

Prepared by: Document Author

Document Author Title

[HP\_Address]

[Phone\_Fax\_E-mail]

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1. Introduction

In order to run the Code Analysis process for the identified custom coded applications, it is necessary that <Customer Name> provides to HPE the source code of such applications.

* 1. Purpose of this Document

The purpose of this document is to inform the customer about how to deliver the source code of the custom coded applications that are subject of the Code Analysis activities.

This document includes the **type** of artefacts as well as the **format** in which they need to be provided. The compliance to these guidelines ensures the success of the Code Analysis activities.

The guidelines provided in this document should be followed for all source code deliveries from the customer to HPE.

* 1. Document Approach

The overview of the content of the delivery is provided in section 2. Whereas, section 3 provides more detailed information of the format and type of the source code for each of the languages under analysis.

Lastly, chapter 4, describes the documentation that needs to be provided together with the source code.

* 1. Information Sources

N/A as this is an internal document to inform the customer of the APEX Application CoE needs.

* 1. Definitions

The following terms are used throughout the document and, unless the context otherwise requires, shall have the following meanings:

| Term | Meaning |
| --- | --- |
|  |  |
|  |  |
|  |  |

* 1. List of References

The following documents are referenced:

| Reference | Document |
| --- | --- |
|  |  |
|  |  |
|  |  |
|  |  |

1. Content of the delivery

The delivery needs to contain the applications in the scope of the Code Analysis activities. For each of the applications, it is necessary to deliver:

* Source code and build scripts of the application.
* Configuration files of the application.
* Information about count of programs and type.
* Any script that provides input, process output, start or stop the application or performs any other operation that the application requires.
* Any other relevant file that is part of the application.

It is recommended that the components that belong to the same application are packaged together in one single compressed file. Thus, the content of the delivery will be a number of compressed files, each of them containing one application.

Once the delivery is prepared, it is recommended that it is transferred in binary mode to avoid any potential manipulation from the file transfer software.

The following sections provide guidelines to prepare the source code and the build scripts for delivery.

1. Source Code Guidelines

The source code in the delivery must comply with the following guidelines:

* The source code must be consistent and complete.
* The source code is an exact copy of the version running in the production systems as of the delivery date.
* The source code is fully functional.
* The source code compiles with no errors in the platform for which it has been developed.

The following chapters provide guidance about the type of artefacts and the format of the code delivery.

* 1. Format of the Code Delivery

The format of the source code must be compliant with the following guidelines:

* The source code should be delivered in ASCII format.
* All files must be suffixed with an extension that determines the type of artifact.

It is recommended that the source code is archived in compressed files to ensure a correct transference to the servers where the code analysis is to be carried out. The following are guidelines for the compressed files containing the applications:

* All artefacts belonging to the same application must be packaged in a single compressed file.
* It is recommended that the name of the compressed file is <APPLICATION\_NAME>-YYYYMMDD.<archive type extension> (e.g. tar)
* The directory structure of the compressed file replicates the same structure as the directory from where the source code has been extracted. (i.e. the same directory structure as the source code management system).
  1. Type of artefacts

The type of artifacts that are needed for the Code Analysis depend on the main programming language of the applications.

* + 1. C/C++ Applications

In order to analyze the C/C++ applications, the customer has to provide the **production version** of the following artifacts:

* C files (\*.c)
* C Header Files (\*.h)
* C++ files (\*.C, \*.cxx, \*.cpp , \*.cc)
* C++ header files (\*.H, \*.hpp, \*.hh)
* C/C++ Source code with embedded SQL:*<<Note: if database different than Oracle or DB2, please look for the default extension of the C source code containing SQL and list below, please include in the template of this document as well>>*
  + For Oracle Database: Pro C (\*.pc,\*.pcc)
  + For DB2 Database: \*.sqc, \*.sqx
* Make files (\*.make,\*.mk)

Along with these artifacts, the customer should provide the build procedures (scripts, makefiles etc.) as well as build instructions including pre-compilation directives (i.e. for Database precompiler if applies). The build instructions can be documented by the customer in any format, although documentation in MS Word format is recommended. The customer should include in this documentation any other relevant information so that HPE is able to run the compilation process of the C/C++ applications.

* + 1. Java Applications

In order to analyze the Java applications, the customer has to provide the **production version** of the following artefacts:

* JAVA files (.java)
* JAVA Property file (\*.properties)
* JSP (\*.jsp)

Along with these, the customer should provide the build procedures, (ant/maven build procedures, scripts etc.) as well as build instructions. The build instructions can be documented by the customer in any format, although documentation in MS Word format is recommended. The customer should include in this documentation any other relevant information so that HPE is able to run the compilation process of the Java applications.

If applicable, when a specific IDE is used (Eclipse, NetBeans, IntelliJ etc.), HPE recommends to provide the entire project source code, including IDE configuration files, so that the source code can be imported and compiled with the IDE.

* + 1. Shell Script Applications

In order to analyze the Shell Script applications, the customer has to provide the **production version** of the following artefacts:

* SHELL (sh, ksh, bash, csh, tcsh ) (\*.sh, \*.ksh, \*.bash, \*.csh, \*.tcsh)

1. Code Delivery Documentation

The customer is kindly requested to provide information to understand the content of the code delivery.

In order to understand the mapping between the applications and the source code, HPE should know what archive file within the code delivery maps to what application. The following table is a proposal to document this mapping:

| Application name | Archive file name |
| --- | --- |
| <Application name> | *<Application Name>.YYYYMMDD.<archive file extension>* |
|  |  |
|  |  |
|  |  |

Furthermore, in order to double check the content of the code delivery, the customer should provide information about the type of artefacts and the count for each of the applications:

| Artefact type | Suffix | Delivery Date | Count | Comments |
| --- | --- | --- | --- | --- |
| C files | \*.c | YYYYMMDD |  |  |
|  |  |  |  |  |

If any specific naming convention or specific file extension is used to determine the type of the artefact, please provide the instructions to map with the appropriate artefact type.