

## **TEMPLATE TERMS FOR USING AUTOMATED FUNCTION POINTS IN SOFTWARE ADM CONTRACTS**

### **Definitions**

Unless otherwise defined below, definitions of terms used in this document are consistent with those used in the OMG/CISQ AFP Specification.

### **Application**

Software program (or programs) that carries out a task or sequence of tasks to support a specific, well defined business process. An application is typically made up of several programs and software components (Framework, RDBMS) and includes different languages and technologies. Customized software packages and software products may be also considered as applications.

### **Application Boundary**

The Application Boundary separates the Application being measured from the user domain and/or other independent Applications. “Application Boundary” is a term that is formally defined by the International Function Point Users Group (IFPUG). IFPUG has defined specific rules for identifying boundaries.

### **Application Model**

The Application Model is produced by analyzing the source code of the application to be sized. It shall contain the static elements of the application that are used in the Automated Function Point counting process. The Application Model is defined as the list of all application’s code entities and their dependencies.

### **Automated Function Points (AFPs)**

The function points resulting from a count conducted in accordance with the OMG/CISQ AFP Specification.

### **Automated Function Point (AFP) Count**

The activity specified in the OMG/CISQ AFP Specification to generate an AFP Count Result for an Application.

### **Automated Function Point (AFP) Count Result**

The size of an Application measured in AFPs together with a breakdown of the AFP Application Model elements in the form defined in the OMG/CISQ AFP Specification Section 7.5 Tables 10 and 11 unless otherwise agreed. The AFP Count result must include a diagram or other description of the application Boundary used.

### **OMG/CISQ AFP Specification**

OMG/CISQ Specification “Automated Function Points” dated February 2013, OMG Document Number ptc/2013-02-01 (<http://www.omg.org/spec/AFP/1.0>).

### **Client**

Client is the buyer of software application development and/or maintenance services from the

Supplier. **Source Code For Count List**

A list of source code modules with programming language, scripts, data definition and manipulation languages for each module to be included in an AFP Count of one Application.

### **Supplier**

Supplier is the seller of software application development and/or maintenance services to the Client.

### **Terms**

1. The performance of this contract will be measured by a series of metrics applied to the Application(s) under development and/or maintenance. To facilitate comparison between the Application(s) and other external benchmarks, and ensure consistency over time, the size of the Application(s) will be measured in Automated Function Points after any one of a number of defined events. These Automated Function Point Count Results will be used to measure contract performance against agreed targets for productivity (e.g. hours per AFP) and quality (e.g. defects per AFP).
2. Events requiring an AFP Count:
  - a. The start of the contract
  - b. Creation of a new Application
  - c. New source code release for an existing Application (e.g. to identify the change in Application size before and after an enhancement release)
  - d. Retirement of an Application (to calculate impact on application portfolio for adjustment of maintenance charges).
  - e. Porting an application to a new platform, language, etc.
  - f. Annual portfolio baseline
  - g. The end of the contract
3. Programming Languages for which AFP Counts will be required:
  - a. [INSERT HERE: List of specific source code languages to be used within contract, software frameworks, application architecture, databases, and more generally all tech components that need to be analyzed to compute data and transactions functions, which are taken into account for counting AFP].
4. Responsibilities:
  - a. Client

- i. [Where Client is managing the source code repository and/or configuration management system] Client will provide or make available to Supplier the source code, scripts, database models and list of application naming conventions as described in the OMG/CISQ AFP Specification Section 6.3. Client will uniquely identify the source code modules and notify the Supplier of the programming language for each module in a Source Code For Count List to be provided to the Supplier and mutually agreed before the AFP Count commences.
  - ii. For new applications for existing applications, Client will provide at least one functional resource for each Application who will assist in the Supplier's configuration of the software used for AFP analysis.
  - iii. Client will appoint an AFP Count Coordinator to be the single point of contact for the Supplier on all issues relating to AFP Counts.
  - iv. In addition to, or instead of, requiring the Supplier to perform AFP Counts, Client may subcontract AFP Count activities to an OMG/CISQ certified third party. All terms relating to AFP Counts must be then passed on to the third party.
- b. Supplier
- i. [Where Supplier is managing the source code repository and/or configuration management system] Supplier will provide or make available to Client the source code and list of application naming conventions as described in the OMG/CISQ AFP Specification Section 6.3. Supplier will uniquely identify the source code modules and notify the Client of the programming language for each module in a Source Code For Count List to be provided to the Client and mutually agreed before the AFP Count commences.
  - ii. Supplier must demonstrate compliance with OMG/CISQ AFP Specification by providing client with a copy of an OMG/CISQ (when available) or other mutually acceptable certification of the software used to perform the AFP Count.
  - iii. For new Applications, if there is a risk of ambiguity of Application Boundary, Supplier may be required to demonstrate that a mutually-agreed IFPUG Certified Function Point Specialist (CFPS) has approved the initial definition of the Application Boundary.
  - iv. Supplier will conduct a formal AFP Count when requested using the specified version of the OMG/CISQ AFP Specification and software certified against this version of the OMG/CISQ AFP Specification.
  - v. Supplier will provide Client with an AFP Count Result for each count conducted.
  - vi. Supplier will appoint an AFP Count Coordinator to be the single point of contact for the Client on all issues relating to AFP Counts.
  - vii. Supplier may only subcontract AFP Count activities to a third party with permission of Client. All terms relating to AFP Counts must be passed on to sub-contractor.

5. Schedule:

- a. Client and Supplier agree to the following Service Level Agreement (SLA) for performing AFP Counts:
  - i. Day 1 – Mutual agreement of Source Code For Count List
  - ii. Day 1 + A – All Inputs ready for AFP Count
  - iii. Day 1 + B – AFP Count Complete and AFP Count Result reported to Client
  - iv. Day 1 + C – AFP Count Result accepted by Client or identified for audit
  - v. Day 1 + D – AFP Count Result Audit completed and shared with Supplier
  - vi. Day 1 + E – Audited AFP Count Result Agreed by Client and Supplier or further escalation invoked.
6. Historical Data:
  - a. Supplier will be expected to maintain and make available to Client upon request a full historical record of AFP Count Results.
  - b. At any time, Client may request Supplier to reproduce an AFP Count Result by taking the same set of inputs and running them through the full process to ensure that similar results are produced.
7. Changes:
  - a. Client and Supplier must mutually agree any change in the version of the OMG/CISQ Specification to be used under the contract. In the event of such a change, Client and Supplier must agree of the handling of prior AFP counts with respect to re-baselining.
  - b. From time to time, AFP Counts may face scenarios that are not covered by the then current version of the OMG/CISQ AFP Specification. In such cases, Client and Supplier (with the assistance of third party specialists if required) may agree to a course of action or rule as a customized extension to the current OMG/CISQ AFP Specification. In the event of such a change, Client and Supplier must agree to the handling of prior AFP counts with respect to re-baselining. It is in the interests of both parties to submit such a change to CISQ for consideration for future versions of the OMG/CISQ AFP Specification. If Client and Supplier cannot agree on the change then AFP Count Results produced under the then current standard will prevail.
8. Out of Scope for AFP Counts (manual counting may be required):
  - a. Commercial off-the-shelf (COTS) Software unless source code is available.
  - b. Stand-alone software enhancement projects can only be counted within the scope of an Application release AFP count. Individual software enhancement project counts are not meaningful under the OMG/CISQ AFP Specification and such counts cannot be used or combined inot Application release counts.
  - c. Programming Languages for which AFP Counts will not be provided:
    - i. [List of specific source code languages to be excluded e.g. Assembler, etc.]
  - d. Small applications may not be comparable with other applications so the lowest size limit for Applications will be defined as:
    - i. Applications less than xx AFPs [e.g. 50] OR
    - ii. Application development effort less than yy hours [e.g. 200]
  - e. The size metric characterized by an AFP Count Result may not be proportional to effort for some types of application enhancement projects. This lack of proportionality will

not affect the validity of the AFP Count Result but rather the other parameters incorporated with the AFP Count Result to calculate productivity, etc.

9. Audits

- a. Client will perform regular audits of Supplier AFP Count Results using an independent implementation of the tool used by the Supplier and/or manual IFPUG function point counts.
- b. Client may use third parties to perform audits.
- c. Audit costs will be borne by the Client/borne by the Supplier/shared equally.

10. [OPTIONAL] Payment for Supplier Application Development & Maintenance Services Using AFP's

- a. Supplier will include cost of performing AFP counts in cost of providing application maintenance and enhancement services to clients.
- b. After initial 12 month period of experience with AFPs, Client and Supplier will meet to define different price per month per AFP under maintenance by technical silo (e.g. J2EE, RDBMS, Web, Mainframe Applications)