


TCC - Enhancement node - AEP Details

Enhancement node - AEP Details

As explained in [Enhancement node - Right hand panel](#), the formula used to generate AEP information are complex and use a variety of intermediary metrics. To help understand how AEP is generated, a **Display AEP Detail** button is available and can display these intermediary metrics and formula in a text file:

Application Enhancement

 Snapshot information

< Prev.

Next >

Enhancement Measure: AEP

Name: Computed on 201711131513


Date: 2017-11-13 15:16:35.394

Functional date: 2017-11-13 00:00:00.0

Automated Enhancement Points: 253

Display AEP Detail

Automated Enhancement Function Points: 72

 Transactional Functions

Total AEPF: 5
Added AEPF: 0 (0%)
Modified AEPF: 5 (100%)
Deleted AEPF: 0 (0%)

 Data Functions

Total AEPF: 67
Added AEPF: 67 (100%)
Modified AEPF: 0 (0%)
Deleted AEPF: 0 (0%)

When clicked, the CAST Transaction Configuration Center will generate a text file and open it in your default text editor. This text file explains how the AEP values were calculated:

```

1 Detail of AEP metrics for application : "MEUDON" - snapshot : Computed on 201711131513
2
3
4 =====
5 I. F U N C T I O N A L   P A R T
6 =====
7
8 I.a TRANSACTIONAL FUNCTIONS
9 =====
10 ----- Definitions and Formulas -----
11 | AEFP      Transactional Functions = sum(round(CF x AFP)) (*)
12 | Added     Transactional Functions : CF = 1
13 | Deleted   Transactional Functions : CF = 0.4
14 | Modified  Transactional Functions : CF = see below
15
16 | CF is defined by the following matrix ,
17 |   if less than 50% of the modified Artifacts are shared components :
18 | -----
19 | |Evolved EC | EC Variation | | | | |
20 | |-----|-----|-----|-----|-----|
21 | |          | <= 1/3 (x 100%) | <= 2/3 (x 100%) | <= 100% | > 100% |
22 | |-----|-----|-----|-----|-----|
23 | |<= 1/3 x 100% | 0.25 | 0.50 | 0.75 | 1.00 |
24 | |-----|-----|-----|-----|-----|
25 | |<= 2/3 x 100% | 0.50 | 0.75 | 1.00 | 1.25 |
26 | |-----|-----|-----|-----|-----|
27 | | <= 100% | 0.75 | 1.00 | 1.25 | 1.50 |
28 | |-----|-----|-----|-----|-----|
29 | | > 100% | 1.00 | 1.25 | 1.50 | 1.75 |
30 | -----
31 | CF values for transactions that did contain shared Artifacts that were
32 | changed are determined as follows:
33 | a. If 100% of the modified Artifacts are shared , CF = 0.25
34 | b. If > 75% of the modified Artifacts are shared , CF is capped at 0.50
35 | c. If > 50% of the modified Artifacts are shared , CF is capped at 0.75
36 | -----

```

Below is an explanation of the abbreviations used in the text file:

- I. FUNCTIONAL PART
 - I.a TRANSACTIONAL FUNCTIONS
 - I.b DATA FUNCTIONS
 - I.c TOTAL FUNCTIONAL
- II. TECHNICAL PART
- III. RESULT

I. FUNCTIONAL PART

I.a TRANSACTIONAL FUNCTIONS

Total Nb Of TF	Total Number of Transactional Functions
AFP SubTotal TF	Total Number of Function Points from Transactional Functions
Nb of TF Added	Total Number of Added Transactional Functions
AFP Added	Total number of Added Functions Points
AEFP Added	Total number of Added Automated Enhancement Function Points
CF distribution Added	If Added Transactional Functions exist, then the distribution of Complexity Factor is displayed here as: NB of TF with CF = 1 (for added it is always 1)
Nb of TF Deleted	Total Number of Deleted Transactional Functions
AFP Deleted	Total number of Deleted Functions Points

AEFP Deleted	Total number of Deleted Automated Enhancement Function Points
CF distribution Deleted	If Deleted Transactional Functions exist, then the distribution of Complexity Factor is displayed here as: NB of TF with CF = 0.40 (for Deleted it is always 0.40)
Nb of TF Modified	Total Number of Modified Transactional Functions
AFP Modified	Total number of Modified Functions Points
AEFP Modified	Total number of Modified Automated Enhancement Function Points
CF distribution Modified	If Modified Transactional Functions exist, then the distribution of Complexity factor is displayed here as: NB of TF with CF = X.XXX (the CF is computed based on the definition given in the top of the section)
AEFP Transactional functions	Automated Enhancement Function Points of Transactional Functions of the application

I.b DATA FUNCTIONS

AFP SubTotal DF	Total Number of Function Points from Data Functions
Total Nb Of DF	Total Number of Data Functions
Nb of DF Added	Total Number of Added Data Functions
AFP Added	Total number of Added Functions Points
AEFP Added	Total number of Added Automated Enhancement Function Points
CF distribution Added	If Added Data Functions exist, then the distribution of Complexity factor is displayed here as: NB of TF with CF = 1 (for added it is always 1)
Nb of DF Deleted	Total Number of Deleted Data Functions
AFP Deleted	Total number of Deleted Functions Points
AEFP Deleted	Total number of Deleted Automated Enhancement Function Points
CF distribution Deleted	If Deleted Data Functions exist, then the distribution of Complexity factor is displayed here as: NB of TF with CF = 0.40 (for Deleted it is always 0.40)
Nb of DF Modified	Total number of Modified Data Functions
AFP Modified	Total number of Modified Functions Points
AEFP Modified	Total number of Modified Automated Enhancement Function Points
CF distribution Modified	If Modified Data Functions exist, then the distribution of Complexity factor is displayed here as: NB of TF with CF = X.XXX (the CF is computed based on the definition given in the top of the section)
AEFP Data functions	Automated Enhancement Function Points of Data Functions of the application

I.c TOTAL FUNCTIONAL

EC	Effort Complexity Total of functional part (previous Effort Complexity Total of functional part of previous snapshot)
EC Added	Effort Complexity Added of functional part (previous Effort Complexity Added of functional part of previous snapshot)
EC Updated	Effort Complexity Updated of functional part (previous Effort Complexity Updated of functional part of previous snapshot)
EC Unchanged	Effort Complexity Unchanged of functional part (previous Effort Complexity Unchanged of functional part of previous snapshot)
Implementation Points AEFP	Total of Enhanced Effort Complexity of the functional part of the application
AEFP	Automated Enhancement Function Points of the application

II. TECHNICAL PART

EC	Effort Complexity Total of Technical part (previous Effort Complexity Total of Technical part of previous snapshot)
EC Added	Effort Complexity Added of Technical part (previous Effort Complexity Added of Technical part of previous snapshot)
EC Updated	Effort Complexity Updated of Technical part (previous Effort Complexity Updated of Technical part of previous snapshot)
EC Unchanged	Effort Complexity Unchanged of Technical part (previous Effort Complexity Unchanged of Technical part of previous snapshot)
AFP	Automated Function Points of the application
IPAFP	Effort Complexity of All Technical Artifacts enhanced of the application
Equivalence Ratio	Equivalence Ratio of the application
Implementation Points AETP	Total of Enhanced Effort Complexity of technical part of the application
AETP	Automated Enhancement Technical Points

III. RESULT

EC	Effort Complexity Total of the application (previous Effort Complexity Total of the application of previous snapshot)
EC Added	Effort Complexity Added of the application (previous Effort Complexity Added of the application of previous snapshot)
EC Deleted	Effort Complexity Deleted of the application (previous Effort Complexity Deleted of the application of previous snapshot)
EC Updated	Effort Complexity Updated of the application (previous Effort Complexity Updated of the application of previous snapshot)
EC Unchanged	Effort Complexity Unchanged of the application (previous Effort Complexity Unchanged of the application of previous snapshot)
AEP	Automated Enhancement Points of the application

