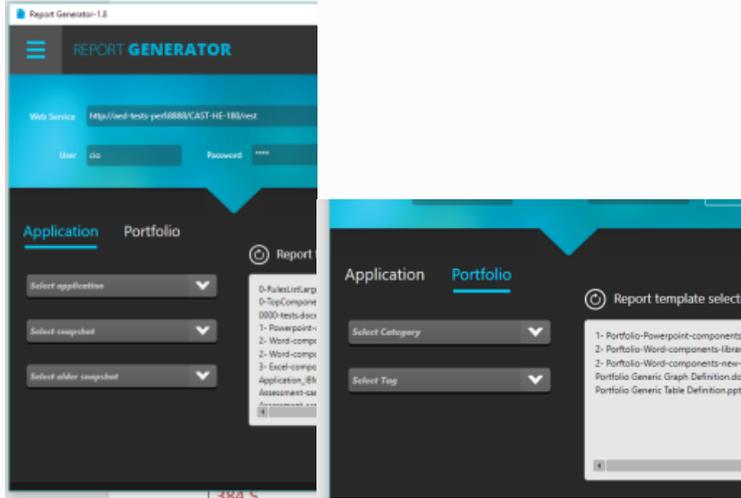


Text components available for Report Generator 1.19.0



- The **Constraint** column shows whether the component will retrieve data for an "engineering" (AED) or "analytics" domain (AAD), and whether an extension needs to be installed in order to generate results (and if we need a specific version or RestAPI). The CAST-RestAPI version indicated is the minimal version of the RESTAPI needed by this component.
- Due to backward compatibility, some components can have two different IDs, but the result will be the same.
- The **Mode** column shows whether the component is targeted at an **Application** or a **Portfolio** or an **Application** - the relevant option should be chosen in Report Generator (see image below). CAST recommends always selecting an Application when the target domain is "engineering" and when using Application mode, as it will avoid empty results (this is because in an "analytics" domain, violations and components does not exist for an application).



Component Id	Description	Mode	Constraints	Parameters	Configuration sample	Output	Result sample
APPLICATION_SCHEMA	Gives the name of the schema containing the application.	Application	CAST-RestAPI 1.8.0	None	TEXT; APPLICATION_SCHEMA	Name of the schema containing the application	aedaadconso_central
DASHBOARD_SERVICE_URL or MEASUREMENT_ADG_WEBSITE	Gives the url of the application associated site in the analytics service.	Application	Information only available in an analytics service. CAST-RestAPI 1.8.0	None	TEXT; DASHBOARD_SERVICE_URL	Url of the site associated to the application in analytics service. n/a if no associated site	http://host/AED
METRIC_AFP_DF or DATA_FUNCTIONS	Give the unadjusted data function metric value for the application	Application	CAST-RestAPI 1.8.0	None	TEXT; METRIC_AFP_DF	Result of metric 10203 for application	16
METRIC_AFP_TF	Give the unadjusted transactional function metric value for the application	Application	CAST-RestAPI 1.8.0	None	TEXT; METRIC_AFP_TF	Result of metric 10204 for application	16
APPLICATION_NAME	Give the name of the application	Application	CAST-RestAPI 1.8.0	None	TEXT; APPLICATION_NAME	Name of the application	Dream Team
APPLICATION_QUALITY_TYPE	Quality Application Category (thresholds for categories can be adjusted in RG settings)	Application	CAST-RestAPI 1.8.0	None	TEXT; APPLICATION_QUALITY_TYPE	very low/low/medium/good	low

APPLICATION_RULE or APPLICATION_METRIC	Give the value of a specific metric for the application	Application	CAST-RestAPI 1.8.0	<ul style="list-style-type: none"> ID can be QualityRuleId, TechnicalCriterionId, BusinessCriterionId, SizingMeasureId, BackgroundFactId or CategoryId (for compatibility reason, you can still use SZID and BFID) SNAPSHOT : PREVIOUS or CURRENT (CURRENT is the default) FORMAT (if SZID or BFID) : N0 or N2 (N0 no decimal, N2 for decimal) MODULE=name of the module for which you want the metric evolution (optional) TECHNO=name of the technology for which you want the metric evolution (optional) PARAMS=SZ a SZ b, (SZ for sizing measure or category, QR for quality rule, BF for background fact) EXPR=a/b, (operators can be +, -, *, /, (,)) <ul style="list-style-type: none"> a=MetricId, (sample 67011 – all critical violations) b=MetricId, (sample 10202 – Total AFP) <p>Either ID, either PARAMS and EXPR for custom expression should be specified.</p> <p>If no module and no technology this is the value for the application that is taken.</p>	<p>TEXT; APPLICATION_METRIC;ID=10151, FORMAT=NO, SNAPSHOT=PREVIOUS => value of number of code lines for the previous snapshot with no decimal</p> <p>TEXT; APPLICATION_METRIC;ID=60017 => current grade of TQI</p> <p>value of number of code lines for module :</p> <p>TEXT; APPLICATION_METRIC;ID=10151, FORMAT=NO, MODULE=MyModule</p> <p>value of number of very large artifacts for technology :</p> <p>TEXT; APPLICATION_METRIC;ID=65104, FORMAT=NO, TECHNO=JEE</p> <p>value of sum of number of very large and large artifacts for application :</p> <p>TEXT; APPLICATION_METRIC;PARAMS=SZ a SZ b,EXPR=a+b, a=65104,b=65103, FORMAT=NO</p>	Value for sizing measure or background fact or category, Grade for Quality measure	66,585
APPLICATION_SIZE_TYPE	Size application category (thresholds for categories can be adjusted in RG settings)	Application	CAST-RestAPI 1.8.0	None	TEXT; APPLICATION_SIZE_TYPE	small /medium /large/extreme	small
CAST_VERSION	Version of CAIP used for the application	Application	CAST-RestAPI 1.8.0	None	TEXT; CAST_VERSION	3 digit version of central schema	8.3.7

CUSTOM_EXPRESSSION	Custom expression You are not limited in the number of parameters to be used in your expression (a, b, c, d...)	Applicati on	Don't put blank char in the definition of parameters (, a=67011, b=67010,c=...) CAST-RestAPI 1.8.0	<ul style="list-style-type: none"> PARAMS=SZ a SZ b, (SZ for sizing measure or category, QR for quality rule, BF for background fact) EXPR=a/b, (operators can be +, -, *, /, (,)) <ul style="list-style-type: none"> a=MetricId, (sample 67011 – all critical violations) b=MetricId, (sample 10202 – Total AFP) FORMAT=N0 (N2 by default, if nothing or erroneous format is set), SNAPSHOT = CURRENT PREVIOUS with CURRENT by default (or if erroneous or nothing is set) to get the custom expression for the current snapshot or the previous one 	TEXT; CUSTOM_EXPRESSSION;PARAMS=SZ a SZ b,EXPR=a/b, a=67011,b=10202, FORMAT=N2 Number of High and Very high cyclomatic complexity objects : TEXT; CUSTOM_EXPRESSSION;PARAMS=SZ a SZ b,EXPR=a+b, a=65504,b=65505, FORMAT=N0	Evaluation of the expression calculated with the results of the metrics for the application	30.44
METRIC_EFP_ADDED	Added EFP metric value	Applicati on	Only available if Enhancement Function Points mode is selected. n/a if Automated Enhancement Points mode selected. CAST-RestAPI 1.8.0	None	TEXT; METRIC_EFP_ADDED	Result of metric 10300	n/a
METRIC_EFP	Aggregated EFP metric value	Applicati on	Only available if Enhancement Function Points mode is selected. n/a if Automated Enhancement Points mode selected. CAST-RestAPI 1.8.0	None	TEXT;METRIC_EFP	Sum of results from metrics 10300, 10310 and 10320 (added + deleted + modified function points)	16
METRIC_EFP_DELETED	Deleted EFP metric value	Applicati on	Only available if Enhancement Function Points mode is selected. n/a if Automated Enhancement Points mode selected. CAST-RestAPI 1.8.0	None	TEXT; METRIC_EFP_DELETED	Result of metric 10320	16
METRIC_EFP_MODIFIED	Modified EFP metric value	Applicati on	Only available if Enhancement Function Points mode is selected. n/a if Automated Enhancement Points mode selected. CAST-RestAPI 1.8.0	None	TEXT; METRIC_EFP_MODIFIED	Result of metric 10310	16

METRIC_EVOLUTION	This component display the evolution of a metric, in percentage or in absolute, for the application, or for a module or a technology if specified.	Application	You should have a current and a previous snapshot selected to get a result. CAST-RestAPI 1.8.0	<ul style="list-style-type: none"> ID= can be quality indicator id (BC, TC or QR), or sizing measure, or background fact, or category. Mandatory parameter FORMAT=ABSOLUTE or PERCENT to get the variation either direct value, either percentage. Default is percent. (optional) MODULE=name of the module for which you want the metric evolution (optional) TECHNO=name of the technology for which you want the metric evolution (optional) <p>New in 1.17.0 :</p> <ul style="list-style-type: none"> PARAMS=SZ a SZ b, (SZ for sizing measure or category, QR for quality rule, BF for background fact) EXPR=a/b, (operators can be +, -, *, /, (,)) <ul style="list-style-type: none"> a=MetricId, (sample 67011 – all critical violations) b=MetricId, (sample 10202 – Total AFP) <p>Either ID, either PARAMS and EXPR for custom expression should be specified.</p> <p>If no module and no technology this is the value for the application that is taken. Variation in percent = (current - previous) / previous Variation in absolute = current - previous</p>	<p>Evolution of TQI for the application in percentage : TEXT; METRIC_EVOLUTION;ID=60017</p> <p>Evolution of Number of code lines in absolute for module MyModule: TEXT; METRIC_EVOLUTION;ID=10151, FORMAT=ABSOLUTE, MODULE=MyModule</p> <p>Evolution of TQI of technology JEE in percentage: TEXT; METRIC_EVOLUTION;ID=60017, TECHNO=JEE</p> <p>Evolution of the number of large size artifacts: TEXT; METRIC_EVOLUTION;ID=65103</p> <p>Evolution of the sum of number of very large and large size artifacts in percentage: TEXT; METRIC_EVOLUTION;PARAMS=SZ a SZ b,EXPR=a+b, a=65104,b=65103, FORMAT=PERCENT</p>	The evolution of specified metric or custom expression	+6,51 %
RULE_FAILED_CHECKS	Number of failed checks in the application for a specific rule	Application	CAST-RestAPI 1.8.0	<ul style="list-style-type: none"> RULID=quality rule id, SNAPSHOT=CURRENT PREVIOUS (CURRENT by default) 	TEXT; RULE_FAILED_CHECKS	value for the specified snapshot (current or previous)	132
RULE_FAILED_ON_TOTAL_CHECKS	Number of failed checks / Number of total checks in the application for a specific rule	Application	CAST-RestAPI 1.8.0	<ul style="list-style-type: none"> RULID=quality rule id, SNAPSHOT=CURRENT PREVIOUS (CURRENT by default) 	TEXT; RULE_FAILED_ON_TOTAL_CHECKS	values for the specified snapshot (current or previous)	132 / 5,748
LAST_SNAPSHOT_DATE or TO_SNAPSHOT_DATE	Date of current snapshot	Application	CAST-RestAPI 1.8.0	None	TEXT; LAST_SNAPSHOT_DATE	date in local format (the one that is selected in the RG settings)	Dec 01 2013
LAST_SNAPSHOT_VERSION	Version of current snapshot	Application	CAST-RestAPI 1.8.0	None	TEXT; LAST_SNAPSHOT_VERSION	current version name	v1

PF_CATEGORY_NAME	Category used to filter the list of applications in portfolio	Portfolio	CAST-RestAPI 1.8.0	None	TEXT; PF_CATEGORY_NAME	category used, All if no category selected	All
PF_CRITICAL_VIOLATIONS	Number of Critical Violations in portfolio	Portfolio	CAST-RestAPI 1.8.0	<ul style="list-style-type: none"> BCID=N where N is the metric id of an heat factor (60017 ie TQI by default) 	TEXT; PF_CRITICAL_VIOLATIONS	sum of critical violations of selected applications	564
PF_CUSTOM_EXPRESSION	Custom expression You can have as number of parameters as you want (theoretical limit is 16383...).	Portfolio	Don't put blank char in the definition of parameters (, a=67011, b=67010,c=...) CAST-RestAPI 1.8.0	<ul style="list-style-type: none"> PARAMS=SZ a SZ b, (SZ for sizing measure, QR for quality rule, BF for background fact) EXPR=b/a, (operators can be +, -, *, /, (,)) a=67011, b=67010, AGGREGATOR=SUM AVERAGE (for portfolio component, to aggregate results of all applications for the custom expression, AVERAGE by default or if erroneous format is set) FORMAT=N0 (N2 by default, if nothing or erroneous format is set), <p>The format of return value is explained here : https://msdn.microsoft.com/en-us/library/dwhawy9k.aspx, with examples for double here : https://msdn.microsoft.com/en-us/library/kfsatb94.aspx), only N format is interesting here :</p> <p>N: -195,489,100.84 N0: -195,489,101 N1: -195,489,100.8 N2: -195,489,100.84</p>	TEXT; PF_CUSTOM_EXPRESSION; PARAMS=SZ a SZ b, EXPR=a/b,a=67010, b=67011, FORMAT=N2, AGGREGATOR=SUM	sum or average of the evaluated expression for selected applications	0.10
PF_NUMAPPLICATIONS	Number of selected application	Portfolio	CAST-RestAPI 1.8.0	None	TEXT; PF_NUMAPPLICATIONS	Value	2
PF_TAG_NAME	Tag name of the selected category	Portfolio	CAST-RestAPI 1.8.0	None	TEXT; PF_TAG_NAME	tag name used in the selected category, All if no category selected	All
PREVIOUS_SNAPSHOT_DATE or FROM_SNAPSHOT_DATE	Date of the previous snapshot selected	Application	A previous snapshot should have been selected CAST-RestAPI 1.8.0	None	TEXT; PREVIOUS_SNAPSHOT_DATE	date in local format (the one that is selected in the RG settings)	Oct 16 2018
PREVIOUS_SNAPSHOT_VERSION	Version of the previous snapshot selected	Application	A previous snapshot should have been selected CAST-RestAPI 1.8.0	None	TEXT; PREVIOUS_SNAPSHOT_VERSION	previous version name	v1
REPORT_GENERATOR_VERSION or EMP_VERSION	Report Generator version used to create the report	Application	No	None	TEXT; REPORT_GENERATOR_VERSION	4 digits version	1.8.0.0

SYSTEM_NAME	Name of the system containing the application	Application	Only relevant on engineering databases. There is no real system on analytics database, just a fake one called "All Applications". CAST-RestAPI 1.8.0	None	TEXT; SYSTEM_NAME	Name	My System
PF_TECHDEBT_VS_AFP	Technical debt ratio per AFP	Portfolio	CAST-RestAPI 1.8.0	None	TEXT; PF_TECHDEBT_VS_AFP	ratio of the sum of applications results for metric 68001 by the sum of application results for metric 10506	384 \$
PF_TECHDEBT_VS_LOC	Technical debt ratio per LOC	Portfolio	CAST-RestAPI 1.8.0	None	TEXT; PF_TECHDEBT_VS_LOC	ratio of the sum of applications results for metric 68001 by the sum of application results for metric 10501	9 \$
METRIC_TECHNICAL_DEBT	Technical debt result	Application	CAST-RestAPI 1.8.0	None	TEXT; METRIC_TECHNICAL_DEBT	result of metric 68001 for application with registered currency symbol	838,985 \$
DF_TF_TOTAL_FUNCTIONS	Automated IFPUG function points estimation	Application	CAST-RestAPI 1.8.0	None	TEXT; DF_TF_TOTAL_FUNCTIONS	result of metric 10202 for application	16
TODAY_DATE	Date of the day when the report is generated	Application	CAST-RestAPI 1.8.0	None	TEXT;TODAY_DATE	date in local format (the one that is selected in the RG settings)	Dec 20 2018
RULE_TOTAL_CHECKS	Total checks of the specified quality rule	Application	CAST-RestAPI 1.8.0	<ul style="list-style-type: none"> RULID=quality rule id, SNAPSHOT=CURRENT PREVIOUS (CURRENT by default) 	TEXT; RULE_TOTAL_CHECKS	value for the specified snapshot (current or previous)	4,748