#### The TAUS Quality Dashboard

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#### Abstract

This workshopoutlines the progress that has been made on the TAUS Dynamic Quality Framework (DQF) in the past year and introduces the TAUS Quality Dashboard where all stakeholders in the global translation services can monitor their performance using industry-shared metrics and benchmark themselves against industry average productivity and quality. The TAUS DQF integration with translation tools via an open API will also be demonstrated.

#### 1. Introduction

The diversification in content types and the swift adoption of translation technologies (including machine translation) drives the need for more dynamic and reliable methods and measurements for translation quality evaluation. Industry-shared metrics will lead to more reliable measurements that give all stakeholders in the language service industry useful benchmarks and insights to help them adjust and improve their processes. The industry-shared metrics will turn quality evaluation into business intelligence steering and supporting management decisions.

In this workshop, we are going to present the progress that has been made on the TAUS Dynamic Quality Framework (DQF) since the last AsLing workshop one year ago. The workshop will also introduce the TAUS Quality Dashboard, which was released in September 2015. The Dashboard is an industry collaborative platform for the global translation services sector where translator operators and producers will be able to monitor their performance based on a variety of parameters they can select from.

We are going to present and demo the integration of DQF in CAT tools as well as the reporting features in the Quality Dashboard and are looking forward to receiving feedback and comments from the participants on the work already done and the future roadmap.

#### 2. The Dynamic Quality Framework

The TAUS Dynamic Quality Framework (DQF) was first developed by TAUS in 2011 in close cooperation with many of the TAUS member companies and represents a dynamic approach to quality evaluation. This dynamic evaluation model takes into account the changing landscape accounting for different content types and the adoption of automated translation technologies. The theoretical framework of DQF is built around three evaluation parameters: utility, time and sentiment. The relative weight of these parameters varies in relation to the content type to be translated. The vision behind DQF is to standardize the methods and tools of quality evaluation, aggregate the scores and measurements and make these available through industry-shared metrics. While DQF provides the reference for quality evaluation, the DQF online platform, also known as DQF tools, provides the specific tools needed to carry out quality evaluation in a vendor independent and standardized environment. The DQF tools running on the TAUS website were released in 2014.

At the first AsLing conference last year, TAUS presented the results of a survey conducted in the summer of 2014 among translators and academic staff who were conducting quality evaluation tasks for MT output or human translation. All respondents were active

users of the TAUS DQF tools and were asked to provide feedback and explain how they did translation Quality Evaluation (QE) and what they expected from the DQF (van der Meer &Görög, 2015). Some of the points raised concerned the lack of transparent evaluation criteria, the difficulty of finding the right metrics, the lack of standardization and the need for different quality levels, not to mention costs and time-to-market.

The tools on the TAUS Evaluate platform include a Content Profiling wizard, a tool to carry out MT ranking and comparison, a tool to run post-editing productivity testing and a knowledge base containing best practices and use cases. Quality attributes for MT output are traditionally accuracy and fluency. However, accuracy and fluency can just as easily be adopted to evaluate human translation which can also be checked for types of errors, as the standard approach to quality evaluation currently does. DQF adopts the error typology developed from the existing error-count metrics (see Section 6).

#### 3. From DQF to the Quality Dashboard

Collecting quality data through the DQF tools proved to be useful but at the same time this approach still suffered from the limitations of displaying only the data that were related to the submitted projects. If collected data could become shared metrics, measurements would become more reliable and give translation operators and producers (translators) useful benchmarks and insights that help them to adjust and improve processes. This is why a new perspective was taken as to what DQF could achieve.

TAUS members and partners started to ask whether there was a way of integrating DQF into the translation workflow and avoid the continuous switching between the normal environment and the DQF tools page. This is why an open API for DQF was developed that connects DQF to the existing translation tools and workflow systems. TAUS provides API specifications and dedicated plugins to allow technology providers and users of translation services to integrate TAUS DQF into their work environment.

The data collected through DQF can be displayed on the TAUS Quality Dashboard to allow translators and project, vendor and quality managers track and benchmark the quality, productivity and efficiency of translation.

The Quality Dashboard was a natural next step that fits very well with the overall trend in the industry towards open data and metrics. The Quality Dashboard delivers on the DQF vision and provides statistics on translation, benchmarking for translation activity and quality, as well as analysis of translation performance and production.Quality evaluation though the Quality Dashboard becomes business intelligence to help steer and support management decisions.

#### 4. Reporting in the Quality Dashboard

The reports in the Quality Dashboard cover the two main areas of Productivity/Efficiency and Quality. [These two areas will be covered in more detail in the following sections]. The Quality Dashboard is a flexible and dynamic tool which offers a number of filters to customize the charts and reports to be displayed. At each level, users can see the overall industry average and the industry average for their specific selection. In addition, users can also benchmark their project(s) against the industry scores.

Available filters include language pair, time span, project, technology use (e.g. TM vs.

MT), translation process, content type and industry. Reports for quality will include error typology both in terms of number and type of errors. In addition, error review can be customized with penalties and pass/fail rates. There is a development roadmap for all reports to be made available to users and planned until the end of the year. Thanks to all the available filters, reports can be made more or less granular and additional filters can be developed on request from the users.



Figure 1 - Time spent per task

Figure 1 shows the productivity for each task of a project. In this case, productivity is expressed in total hours spent on translation and review, broken down by review cycle. Time spent per task can be displayed both in aggregated form per project or broken down e.g. per language pair. This allows the identification of possible bottlenecks in the overall workflow.

In addition to total number of errors per error category, another report can be generated which provides a more accurate picture of the distribution of errors based on their severity. Figure 2 shows how many errors per category have been labeled as 'critical', 'major', 'minor' or 'neutral' at project level, but the same information can also be provided for an individual task. The chart provides the weighted distribution (bars) compared to the absolute count (blue line). Both counts are normalized (e.g. per 1,000 words).

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Productivity										
Efficiency	20	er of Errors   Weigh	nted Error	Distrib	ution in	Project			Total	QUALITY DASHBOARD
Distribution of segments	spw 0001 and source #	F	luency /eighted e	rrors: 7					errors Weighted errors	DQF Tools
Error review	ors be		-			1	~		 611013	For Developers
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		umber of errors C	ritical M	laior N	linor Ne	outral Ku	idos Weighter	errors		Background
	Accuracy	7	1	1	3	2	0	15		Subscription Plans
	Fluency	5	0	0	2	3	0	7		
	Terminology	3	0	2	1	0	0	8		
	Style	8	0	1	4	3	0	14		
	Design	4	0	1	0	3	0	6		
	Locale Convention	4	0	1	2	1	0	8		
	Other	2	0	0	0	2	0	2		

Figure 2 - Weighted error distribution

Project Managers may be interested to know how many and what kind of errors have been identified by each reviewer, as shown in Figure 3. This can be useful to compare different review styles and better understand the evaluation of e.g. in-country reviewer.



Figure 3 - Distribution of errors per task

#### 5. Productivity and Efficiency

The Quality Dashboard provides productivity and efficiency metrics across content types, industries, processes used, technologies applied and by language pairs. Productivity is the throughput or speed expressed in the number of words per hour. Productivity tracking is

widely used for measuring the throughput of translators or quantifying the quality of MT engines by examining post-editing tasks. It helps evaluating which translation process is more appropriate and assessing the quality of the translation memory or the machine translation system in use.

Efficiency is a new score introduced by TAUS (Görög 2015a). The Efficiency Score is a composite indicator of translation productivity based on the words processed per hour and the edit distance. It calculates a weighted score, which gives a much more balanced and realistic insight in the performance of both human and technology resources than the commonly used productivity measurement (Görög 2015b). Using a similar procedure, additional attributes such as quality of the translated segments can be added to the Efficiency Score to reach higher precision.

While the productivity score is a good first performance indicator, the TAUS Efficiency Scoregives both translators and managers a more reliable measurement, especially when used in combination with the filters for technology, process and content.

The Efficiency Score can be an absolute score calculated based on one given project or a relative score that calculated using all the relevant data in the DQF database. It can be calculated using the two obligatoryvariables (core variables of words per hour and edit distance) or by adding some optional variables to the calculation to increase precisionand credibility. It can be calculated to measure translator efficiency as well as CAT/TMSor MT engine efficiency.

#### 6. Error Typology

A vast majority of providers and buyers of translation services manage their quality program with an error typology template. The LISA QA model and the SAE J2450 are among the two most commonly applied metrics for error category. TAUS has developed a more up-to-date version of these error typologies and made it available under DQF. The DQF error typology approach to quality evaluation involves the use of a list of error categories. The entire text or a sample thereof is evaluated by a qualified linguist who flags errors, applies penalties and establishes whether the content meets a pass threshold. This is a common type of evaluation in the translation sector. Although the error categories might vary, a benchmarking report by TAUS found that there was considerable similarity between the most commonly used typologies by over 20 companies (Language, Terminology, Accuracy and Style) and the types of errors. However, there is less agreement on the penalties to be applied or their severity levels.

In 2014, the German Research Center for Artificial Intelligence (DFKI) published the MQM (Multidimensional Quality Metrics) framework as part of the EU-funded QTLaunchPad project based on careful examination and extension of existing quality models (Lommel 2014). MQM is a framework for building task-specific translation metrics. It allows users to create custom metrics that can be used for various assessment purposes. By providing a master vocabulary of error types, users can describe metrics in a fully transparent fashion. MQM has been implemented in a variety of commercial and open-source tools.

Under the European funded project QT21, TAUS and DFKI have harmonized the DQF and MQM error typologies<sup>1</sup> into one DQF-MQM framework where the high-level branches match the six core DQF issue types (Figure 4). DQF's analytic method and the MQM hierarchy of translation quality issues have both been modified to share the same basic

<sup>&</sup>lt;sup>1</sup> For more information about MQM, please visit http://qt21.eu/mqm-definition

structure. DQF will use a subset of the full MQM hierarchy based on the experience of TAUS members, while MQM will continue to maintain a broader set of issue types designed to capture and describe the full range of quality assessment metrics currently in use. Users of the DQF analytic method will be guaranteed to be compliant with MQM as well.

For each of the six main categories (Accuracy, Fluency, Design, Locale convention, Terminology, Style) there are a number of subcategories available for a more granular analysis of errors. For a complete list and description of the harmonized error categories (including the additional categories of 'Verity' and 'Other'), please refer to the Appendix.



Figure 4 – The harmonized DQF-MQM error typology

The error typology approach is used to identify and classify errors in the text before delivery. Alternatively, error typology is employed to assess the performance of a vendor or identify mistakes in a machine translated document and guide their improvement. Based on the specific needs of the user, the error-typology can be more or less granular. A diagnostic evaluation to understand in detail the nature or cause of errors may require a more detailed error typology. The error typology should also be flexible enough to accommodate a customized selection of (sub-)categories.

Once the desired error typology has been selected, errors can typically be assigned to one of four severity levels: **critical**, **major**, **minor** and **neutral**. Each severity level is assigned a weight (penalty) which contributes to establishing the pass/fail outcome for the translation. The pass/fail threshold is flexible and depends on content type, end-user profile and perishability of the content. Different thresholds might be applied to different content types or target languages. Pass/fail thresholds can be set manually at project creation and penalties can be set on the Quality Dashboard based on error severity and error annotation to be performed at segment or sub-segment level. In the latter case, errors can be identified by highlighting the target text directly in the tool environment.

#### 7. Conclusions and Further Work

The Quality Dashboard represents the natural evolution of the DQF tools. Thanks to the open API and the increasingly advanced reporting features we hope to encourage users to adopt the TAUS DQF and use the Quality Dashboard to measure translation performance and production and benchmark translation activities and quality turning traditional quality

evaluation into business intelligence.

The new quality review complements the productivity and efficiency measurements. For instance, the validity of the Efficiency Score can be improved if information on the quality of translated content is made part of the score. Furthermore, interesting conclusions can be drawn from productivity measurements of the review cycle(s) from the Quality Dashboard. Finally, translation productivity and quality can be correlated; post-editors, translators and reviewers can be profiled etc.

In later releases, additional features could be added such as content profiling to allow for automatic selection of error severities and pass/fail thresholds. Adequacy and fluency evaluation of each segment may also be integrated in the API to complement error annotation and offer an additional perspective on quality review. Sampling approaches in quality review also need further scoping to ensure reliable and comparable results.

#### References

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ArleLommel. 2014. *MultidimensionalQualityMetrics (MQM) Definition*. http://www.qt21.eu/mqm-definition/definition-2015-06-16.html (last visited 25 October 2015).

Jaap van der Meer and Attila Görög. 2015. *Dynamic Quality Framework Report* 2015.https://evaluate.taus.net/index.php?option=com\_rsfiles&layout=preview&tmpl=component&pat h=Reports%2FFree+Reports%2FDQFReport-TAUS2015.pdf(last opened 25 October 2015).

#### APPENDIX

#### Harmonized DQF-MQM Error Typology

	High-level	Granular error-		
ID	error types	types	Definition	Example
			The target text does not	
			accurately reflect the	
			source text, allowing for	
			any differences authorized	Translating the Italian word 'canali' into
1	Accuracy		by specifications.	English as 'canals' instead of 'channels'.
			The target text includes	A translation includes portions of another
			text not present in the	translation that were inadvertently pasted
11		Addition	source.	into the document.
			Content is missing from the	
			translation that is present	A paragraph present in the source is missing
12		Omission	in the source.	in the translation
				A source text states that a medicine should
				not be administered in doses greater than
			The target content does	200 mg, but the translation states that it
			not accurately represent	should be administered in doses greater than
13		Mistranslation	the source content.	200 mg (i.e., negation has been omitted).
				The source text refers to a "boy" but is
			The target text is more	translated with a word that applies only to
		Over-	specific than the source	young boys rather than the more general
14		translation	text	term
			The target text is less	The source text uses words that refer to a
		Under-	specific than the source	specific type of military officer but the target
15		translation	text	text refers to military officers in general
			Content that should have	
			been translated has been	A sentence in a Japanese document
16		Untranslated	left untranslated.	translated into English is left in Japanese.
			An translation is provided	
			as an exact match from a	A TM system returns "Press the Start button"
		Improper	translation memory (TM)	as an exact (100%) match, when the proper
		exact TM	system, but is actually	translation should be "Press the Begin
17		match	incorrect.	button".
			Issues related to the form	
			or content of a text,	
			irrespective as to whether	A text has errors in it that prevent it from
2	Fluency		it is a translation or not.	being understood.
			Punctuation is used	
			incorrectly (for the locale or	An English text uses a semicolon where a
21		Punctuation	style)	comma should be used.
			Issues related to spelling of	The German
22		Spelling	words	word Zustellung isspelled Zustetlugn.
			Issues related to the	
			grammar or syntax of the	
			text, other than spelling	An English text reads "The man was
23		Grammar	and orthography.	seeing the his wife."

			The content uses the wrong	1
			grammatical register, such	
			as using informal pronouns	
			or verb forms when their	A text used for a highly formal
		Grammatical	formal counterparts are	announcement uses the Norwegian <i>du</i> form
24		register	required.	instead of the expected <i>De</i> .
			The text shows internal	A text uses both "app." and "approx." for
25		Inconsistency	inconsistency.	approximately.
				An HTML file contains numerous links to
				other HTML files; some have been updated
				to reflect the appropriate language version
		Link/cross-	Links are inconsistent in the	while some point to the source language
26		reference	text	version.
		Character		
27		encoding		
3	Terminology			
			A term is used	A termbase specifies that the term USB
		Inconsistent	inconsistently with a	<i>memory stick</i> should be used, but the text
31		with termbase	specified termbase	uses USB flash drive.
				The text refers to a component as the "brake
		Inconsistent	Terminology is used in an	release lever", "brake disengagement lever",
		use of	inconsistent manner within	"manual brake release", and "manual
32		terminology	the text.	disengagement release".
4	Style			
41		Awkward		
			The text violates	Company style states that passive sentences
			company/organization-	may not be used but the text uses passive
42		Company style	specific style guidelines.	sentences.
				One part of a text is written in a light and
		Inconsistent	Style is inconsistent within	"terse" style while other sections are written
43		style	a text	in a more wordy style.
		Third-party		
44		style		
45		Unidiomatic		
			There is a problem relating	
			to design aspects (vs.	
			linguistic aspects) of the	
5	Design		content.	A document is formatted incorrectly
			There is a significant	
			discrepancy between the	An English sentence is 253 characters long
			source and the target text	but its German translation is 51 characters
51		Length	lengths.	long.
				A portion of the text displays a (non-
			Issues related to local	systematic) formatting problem (e.g., a single
		Local	formatting (rather than to	heading is formatted incorrectly, even
52		formatting	overall layout concerns)	though other headings appear properly).
53		Markup	Issues related to "markup"	Markup is used incorrectly, resulting in

structure or formatting of text, also known as "tags"). A translation is complete, but during DTP a text box was inadvertently moved off the page and so the translated text does not appear in a rendered PDF version.   54 Missing text Truncation/ text expansion Truncation/ text expansion   55 Truncation/ text expansion Truncation data text expansion The German translated fext does not appear in a rendered PDF version.   61 Characters are garbled due to incorrect application of an encoding. A text document in UTF-8 encoding is opened as ISO Latin-1, resulting in all "upper ASCI" characters being garbled.   61 Content uses the wrong format A nolline form translated from English to Hindi requires a street number even though many addresses in India do not include a house number.   62 Date format A text uses a date format inappropriate for its locale. A text date wrong format for addresses.   63 Currency format Content uses the wrong format for currency. A text uses a measurement format inappropriate for its locale. A text in France uses feet and inches and Format   64 Measurement format A text date software product uses shortcuts that do not conform to locale expectations or that make no sense for the locale A stext in France uses feet and inches and Format (xxx) xxx - xxx instead of the expected lock followed by a group of digits serving (xxx - xxx instead of the expected lock followed by a group of digits serving (xxx - xxx instead of the expected lock followed by a group of digits servins tastatements that curraduel to the inte format			I	(codes used to represent	incorrect formatting.
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> Ágnes Varga, PhD memoQ Developer









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