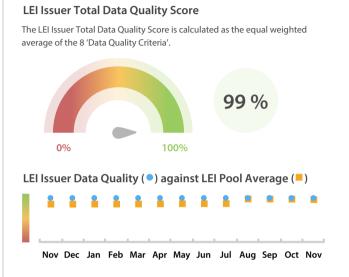
Herausgebergemeinschaft Wertpapier-Mitteilungen Keppler, Lehmann GmbH & Co. KG (WM Datenservice) | Data Quality Report | November 2017



Data Quality Scores



Data Quality in Covered Countries

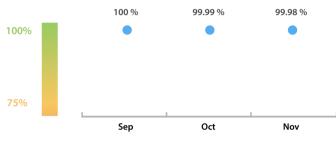


Top 5 Failing Checks

	# Failed Records	Check description	
<u>C000243</u>	89	this LEI must not have any parent RR record and m	
<u>C000180</u>	35	There is no repetition of the same LEI code with a	
<u>C000262</u>	25	Relationships' NextRenewalDate (date portion) is th	
<u>C000255</u>	15	StartDate < EndDate.	
<u>C000245</u>	12	LEI has exactly one record for ultimate parent and	

LEI Issuer Total Data Quality Score Trend

Progress achieved with regard to the continuous optimization of the data quality based on the LEI Issuer Total Data Quality Score.

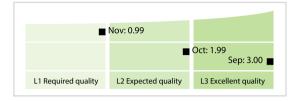


Data Quality Criteria	Nov	Oct	# Checks	# Failed Records
Accuracy	100.00 %	100.00 %	7	0 (0 %)
Completeness	99.90 %	100.00 %	1	89 (0.09 %)
Comprehensiveness	100.00 %	100.00 %	2	0 (0 %)
Consistency	99.99 %	N/A	16	38 (0.03 %)
Currency	100.00 %	N/A	1	0 (0 %)
Integrity	99.99 %	99.99 %	15	2 (< 0.01 %)
Uniqueness	99.96 %	100.00 %	1	35 (0.03 %)
Validity	99.99 %	100.00 %	15	18 (0.01 %)

The Data Quality criteria is expected to contain 12 dimensions. Currently a subset of 8 criteria is implemented, to the detriment of the score, as they are averaged on all of them. This is expected to change, on a nonfixed timeline, to include all 12 dimensions.

DISCLAIMER: All figures of this LEI Data Quality Report are derived from these sources: 1) Global Legal Entity Identifier Foundation (GLEIF) Concatenated end-of-month files for all months mentioned in this report and 2) Data Quality Reports for all aforementioned concatenated files based on the LEI-Data-Quality-Check Specification v2.0. While every care has been taken in the compilation of this information, GLEIF will not be held responsible for any loss, damage or inconvenience caused as a result of inaccuracy or error within the LEI Data Quality Report. The text and graphic content of the LEI Data Quality Report may be used, printed and distributed ONLY with the copyright information displayed (© Copyright Global Legal Entity Identifier Foundation (GLEIF)).

Quality Maturity Level



Statistics

Totals	Values		
Managed LEIs	97,710 (+10.25 %)		
Active entities managed	93,248 (+10.69 %)		
Inactive entities managed	4,462 (+1.80 %)		
Covered countries	145 (+2.11 %)		
New lapsed LEIs *	1,455 (N/A)		
Level 2 Info	Values		
LEIs with LEI parent relationships	5,040 (N/A)		
LEIs with complete parent information	46,632 (N/A)		
Duplicates	Values		
Total LEIs marked as duplicate **	230 (N/A)		
Duplicate percentage of managed LEIs	< 1 % (N/A)		
Challenges	Values		
Challenges this month	61 (> 100 %)		
Duplicates found this month	14 (> 1000 %)		
Updates to entity information this month	27 (N/A)		
Files	Values		
No. of days per month with CDF- compliant file uploads	30 / 30 (+/-0 %)		

* Please see our Business Report <u>www.gleif.org/business-reports</u> for detailed information around lapsed LEIs.

** RegistrationStatus = DUPLICATE