

DATA QUALITY DIMENSIONS

Concept	Definition	Description	Examples
Accuracy	A measurement of the veracity of data to its authoritative source	Accuracy is a measurement of the precision of data. It can be measured against either original documents or authoritative sources and validated against defined business rules.	<ul style="list-style-type: none"> Records that are wrong at a specified time (i.e. record with incorrect maturity date) Records that haven't been refreshed or updated Records at the wrong level of precision (i.e. prices that were originally quoted at three decimal places, but cut-off and stored at two decimal places)
Completeness	A measurement of the availability of required data attributes	Completeness measures the existence of required data attributes in the population of data records.	<ul style="list-style-type: none"> A missing ticker symbol, CUSIP, or other identifier A fixed income instrument record with a null coupon value A benchmark or index that is missing a dividend notice or stock split A record with missing attributes
Conformity	A measurement of the alignment of content with the required standards	Conformity measures how well the data aligns to internal, external or industry-wide standards.	<ul style="list-style-type: none"> Invalid ISO currency codes Violation of allowable values (i.e. state code for a country that doesn't have states) Inconsistent date formats
Consistency	A measurement of compliance with required formats, values or definitions	Consistency provides assurance that data values, formats and definitions in one population agree with those in another data population.	<ul style="list-style-type: none"> Not logical given parameters or rules (rationalization of coding schemes) Invalid data formats in some records in a feed Telephone numbers with commas vs. hyphens U.S. vs. European date formats
Coverage	A measurement of the availability of required data records	Coverage refers to the breadth, depth and availability of data that exists but is missing from a data provider.	<ul style="list-style-type: none"> A group of securities (i.e.: corporate bonds) not included in a vendor feed Quoted prices from an emerging market that are missing Legal entity and hierarchy data missing from a country or region
Timeliness	A measurement of the degree to which data is both representative of current conditions and available for use	Timeliness is a measurement of how well content represents current market/business conditions as well as whether the data is functionally available when needed.	<ul style="list-style-type: none"> A file delivered too late for a business process or operation An issuance or corporate action not delivered when it was announced A credit rating change not updated on the day it was issued A new prospectus not given an official number from the national numbering agency
Uniqueness	A measurement of the degree that no record or attribute is recorded more than once	Uniqueness refers to the singularity of records and or attributes. The objective is a single (unique) recording of data.	<ul style="list-style-type: none"> Two instances of the same security with different identifiers or spellings A preferred share represented as both an equity and debt object in the same database