Strategy Studio: SMAAdapter (Sentiment Data)

The SMA adapter is Strategy Studio's market data adapter for Social Market Analytics. The adapter polls SMA servers for new sentiment updates from social media sites.   For more information regarding the service visit

https://www.socialmarketanalytics.com

The adapter supports SMA's S-Factor and Activity 1m frequency content sets for a variety of SMA subject types ("ontologies") and for both the Twitter and StockTwits content sources. The following variables may be added to the config.txt file to configure the SMA adapter:

- › **SMA_SOURCE_CONFIG_FILE=*filename***
  - • (Optional) Specifies name of a mandatory XML file which configures which ontologies and content sources are available from which SMA hosts and populates corresponding authorization tokens. Default is *sma_source_config.xml,* and a skeleton example config file is available in the adapter documentation folder of the SDK.
- › **SMA_REFRESH_OFFSET=*integer***
  - • (Optional) Adapter queries the SMA 1m interval S-Factor and Activity feeds, which are released shortly after the clock minute. This sets how many seconds after the minute to wakeup and poll the data. A larger value reduces the need to repoll for data that is not yet available. Default value is *14*.
- › **SMA_MAX_RETRIES=*integer***
  - • (Optional) If the 1m data is not available when the adapter first wakes up and polls, the adapter will sleep for 1 second and retry up to SMA_MAX_RETRIES times. Default value is *10*.
- › **SMA_S_FACTOR_FIELDS=*comma_separated_list***
  - • (Optional) Lists the field names to include when querying S-Factor ontologies. Defaults to all supported metrics:
    "raws,rawsmean,rawsscore,rawsvolatility,s,sbuzz,sdelta,sdispersion,smean,sscore,svolatility, svmean,svscore,svvolatility,svolume,raws50,rawsmean50,rawsvolatility50,rawsscore50, rawsaccel50,rawsvelocity50,raws200,rawsmean200,rawsvolatility200,rawsscore200,rawsaccel200, rawsvelocity200"
- › **SMA_ACTIVITY_FIELDS=*comma_separated_list***
  - • (Optional) Lists the field names to include when querying Activity ontologies. Defaults to all supported metrics:
    "s1mr_s,s1mr_raws,s1mr_sdispersion,s1mr_svolume"

Registering for sentiment data can be done with the *eventRegister->RegisterForSentiment()* function. The adapter will trigger OnSentiment() in the strategy, which has two overloads. One delivers a *SentimentEventMessage* for S-Factor content, the other delivers a *SentimentActivityEventMessage* for Activity content.

Documentation on the meaning of the different sentiment fields is available in the header of the Sentiment event message types, and from SMA's API documentation.