WHAT IS CLAIMED IS:

1. A method in a building automation system, the method performed by a data processing system and comprising:

receiving, by the data processing system, input data representing operation of a physical device of the building automation system, the input data comprising raw input data;

receiving, by the data processing system, a configuration file that defines data quality (DQ) processes to be performed on the input data;

dynamically building a configurable pipeline based on the configuration file by the data processing system, the configurable pipeline including one or more Data Quality Indicator (DQI) or Data Quality Aggregation (DQA) process components from a DQ core library for processing the input data;

performing DQ processes on the input data by the data processing system, including executing each of the DQI or DQA process components included in the configurable pipeline;

producing, by the data processing system, one or more DQ results based on the DQ processes; and

returning the one or more DQ results by the data processing system.

2. The method of claim 1, wherein the method is performed in a software architecture that includes a pipeline generator that builds the configurable pipeline.

3. The method of claim 1, wherein the method is performed in a software architecture that includes a plurality of adapters configured to convert data for use by the one or more DQI or DQA process components.

4. The method of claim 1, wherein the DQ processes include generating DQ flags based on domain knowledge, using fixed and fuzzy logic.

5. The method of claim 1, wherein the DQ processes include performing an energy meter overflow check.

6. The method of claim 1, wherein the DQ processes include performing a summary method process that analyzes DQ data for sensor points based on different time domain aggregation schemes.

7. The method of claim 1, wherein the configuration file includes a definition of the configurable pipeline, multiple DQI and DQA process components to be executed in series and/or parallel, and connection between the multiple DQI and DQA process components.

8. The method of claim 1, wherein the configurable pipeline includes a DQA process component that uses one of weighted averaging for DQA, a maximum DQI for DQA, time horizon averaging for DQA, or a time horizon maximum for DQA.

9. The method of claim 1, wherein the configuration file includes an identification of a schema to be applied, and the schema includes data quality indicators with associated weights, an identification of an aggregation method, and an identification of an interpolation method.

10. The method of claim 1, wherein dynamically building the configurable pipeline includes:

initializing the configurable pipeline;

reading a schema associated with the configuration file;

based on the schema and the configuration file, selectively adding at least one quality check method to the configurable pipeline, wherein the quality check method is a DQI process component from the DQ core library;

based on the schema and the configuration file, selectively adding at least one interpolation method to the configurable pipeline;

based on the schema and the configuration file, selectively adding a flag assignment method to the configurable pipeline;

based on the schema and the configuration file, selectively adding an aggregation method to the configurable pipeline, wherein the aggregation method is a DQA process component from the DQ core library; and

storing the configurable pipeline.

11. A building automation system comprising a plurality of sensors and at least one data processing system configured to process input data collected from the operation of at least one of the plurality of sensors, wherein the building automation system is configured to:

receive input data representing the operation of a physical device of the building automation system, the input data comprising raw input data;

receive a configuration file that defines data quality (DQ) processes to be performed on the input data;

dynamically build a configurable pipeline based on the configuration file by the data processing system, the configurable pipeline including one or more

Data Quality Indicator (DQI) or Data Quality Aggregation (DQA) process components from a DQ core library for processing the input data;

perform DQ processes on the input data by the data processing system, including executing each of the DQI or DQA process components included in the configurable pipeline;

produce one or more DQ results based on the DQ processes; and

return the one or more DQ results.

12. The building automation system of claim 11, wherein the building automation system further comprises a software architecture that includes a pipeline generator that builds the configurable pipeline.

13. The building automation system of claim 11, wherein the building automation system further comprises a software architecture that includes a plurality of adapters configured to convert data for use by the one or more Data Quality Indicator (DQI) or Data Quality Aggregation (DQA) process components.

14. The building automation system of claim 11, wherein the DQ processes include generating DQ flags based on domain knowledge, using fixed and fuzzy logic.

15. The building automation system of claim 11, wherein the DQ processes include performing an energy meter overflow check or performing a summary method process that analyzes DQ data for sensor points based on different time domain aggregation schemes.

16. The building automation system of claim 11, wherein the configuration file includes a definition of the configurable pipeline, multiple DQI and DQA process components to be executed in series and/or parallel, and connection between the multiple DQI and DQA process components.

17. The building automation system of claim 11, wherein the configurable pipeline includes a DQA process component that uses one of weighted averaging for DQA, a maximum DQI for DQA, time horizon averaging for DQA, or a time horizon maximum for DQA.

18. The building automation system of claim 11, wherein the configuration file includes an identification of a schema to be applied, and the schema includes data quality indicators with associated weights, an identification of an aggregation method, and an identification of an interpolation method.

19. The building automation system of claim 11, wherein to dynamically build the configurable pipeline, the data processing system is configured to:

initialize the configurable pipeline;

read a schema associated with the configuration file;

based on the schema and the configuration file, selectively add at least one quality check method to the configurable pipeline, wherein the quality check method is a DQI process component from the DQ core library;

based on the schema and the configuration file, selectively add at least one interpolation method to the configurable pipeline;

based on the schema and the configuration file, selectively add a flag assignment method to the configurable pipeline;

based on the schema and the configuration file, selectively add an aggregation method to the configurable pipeline, wherein the aggregation method is a DQA process component from the DQ core library; and

store the configurable pipeline.