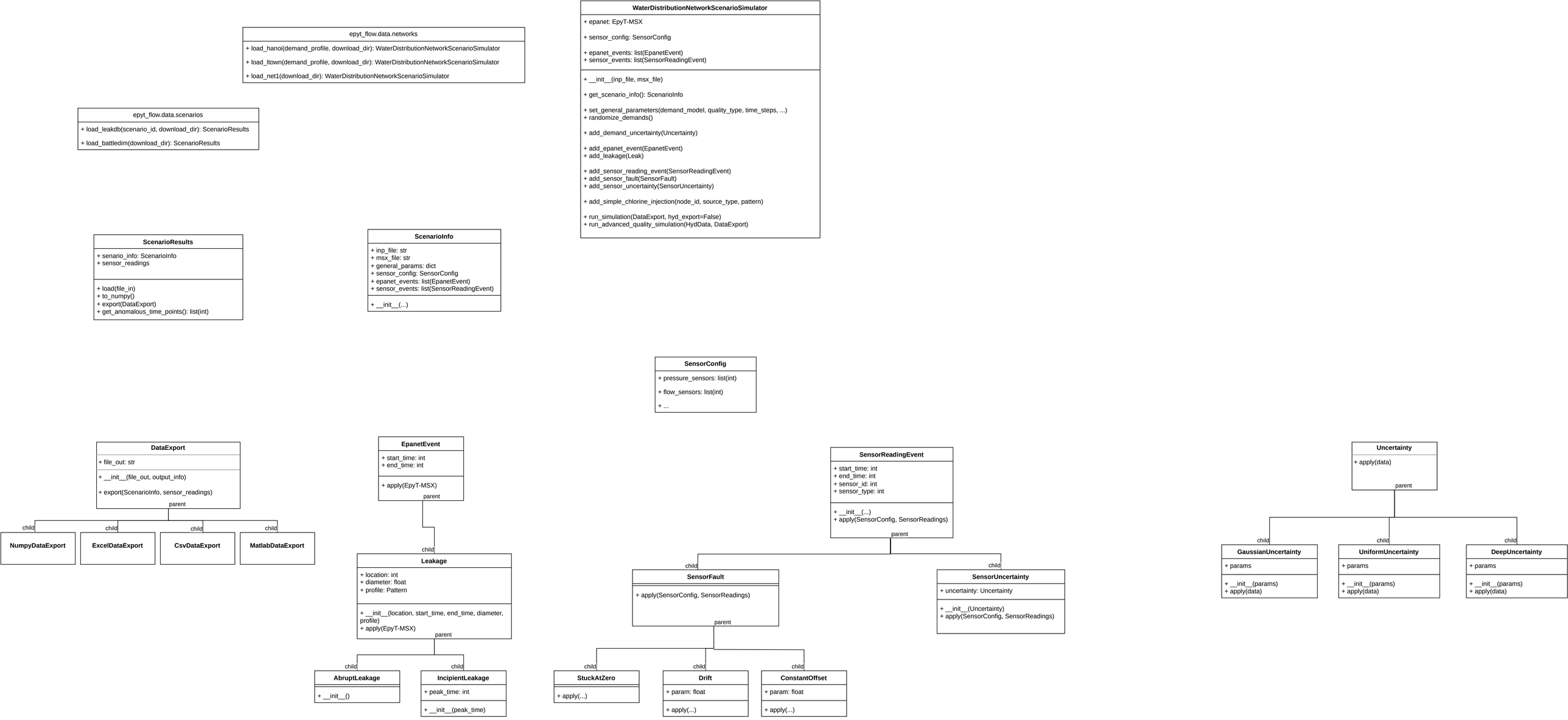
epyt_flow.data.networks
+ load_hanoi(demand_profile, download_dir): WaterDistributionNetworkScenarioSimulator
+ load_ltown(demand_profile, download_dir): WaterDistributionNetworkScenarioSimulator
+ load_net1(download_dir): WaterDistributionNetworkScenarioSimulator
WaterDistributionNetworkScenarioSimulator
+ epanet: EpyT-MSX
+ sensor_config: SensorConfig
+ epanet_events: list(EpanetEvent)
+ sensor_events: list(SensorReadingEvent)
+ __init__(inp_file, msx_file)
+ get_scenario_info(): ScenarioInfo
+ set_general_parameters(demand_model, quality_type, time_steps, ...)
+ randomize_demands()
+ add_demand_uncertainty(Uncertainty)
+ add_epanet_event(EpanetEvent)
+ add_leakage(Leak)
+ add_sensor_reading_event(SensorReadingEvent)
+ add_sensor_fault(SensorFault)
+ add_sensor_uncertainty(SensorUncertainty)
+ add_simple_chlorine_injection(node_id, source_type, pattern)
+ run_simulation(DataExport, hyd_export=False)
+ run_advanced_quality_simulation(HydData, DataExport)
epyt_flow.data.scenarios
+ load_leakdb(scenario_id, download_dir): ScenarioResults
+ load_battledim(download_dir): ScenarioResults
ScenarioResults
+ senario_info: ScenarioInfo
+ sensor_readings
+ load(file_in)
+ to_numpy()
+ export(DataExport)
+ get_anomalous_time_points(): list(int)
ScenarioInfo
+ inp_file: str
+ msx_file: str
+ general_params: dict
+ sensor_config: SensorConfig
+ epanet_events: list(EpanetEvent)
+ sensor_events: list(SensorReadingEvent)
+ __init__(...)
SensorConfig
+ pressure_sensors: list(int)
+ flow_sensors: list(int)
+ ...
DataExport
+ file_out: str
+ __init__(file_out, output_info)
+ export(ScenarioInfo, sensor_readings)
parent
child
child
child
child
NumpyDataExport
ExcelDataExport
CsvDataExport
MatlabDataExport
EpanetEvent
+ start_time: int
+ end_time: int
+ apply(EpyT-MSX)
parent
child
Leakage
+ location: int
+ diameter: float
+ profile: Pattern
+ __init__(location, start_time, end_time, diameter, profile)
+ apply(EpyT-MSX)
parent
child
child
AbruptLeakage
+ __init__()
IncipientLeakage
+ peak_time: int
+ __init__(peak_time)
SensorReadingEvent
+ start_time: int
+ end_time: int
+ sensor_id: int
+ sensor_type: int
+ __init__(...)
+ apply(SensorConfig, SensorReadings)
parent
child
child
SensorFault
+ apply(SensorConfig, SensorReadings)
parent
child
child
child
StuckAtZero
+ apply(...)
Drift
+ param: float
+ apply(...)
ConstantOffset
+ param: float
+ apply(...)
SensorUncertainty
+ uncertainty: Uncertainty
+ __init__(Uncertainty)
+ apply(SensorConfig, SensorReadings)
Uncertainty
+ apply(data)
parent
child
child
child
GaussianUncertainty
+ params
+ __init__(params)
+ apply(data)
UniformUncertainty
+ params
+ __init__(params)
+ apply(data)
DeepUncertainty
+ params
+ __init__(params)
+ apply(data)