## Feeder Info

1. What’s the meaning of network dependencies? Duplicate data for (networkId1, networkId2) and (networkId2, networkId1). Same networkId in both networkId1 and networkId2. Ids in both columns exist in CYMNETWORK file.
2. How many feeders are exactly in the data? There are 1758 networkId in CYMNETWORK and 1684 pairs in CYMNETWORKDEPENDENCIES.
3. How to extract information for one feeder if the networkId is not feeder but substation?

## Source Info

1. There is no voltage information in source file.
2. Multiple sources in one networkId in CYMSOURCE file.
3. Multiple equivalent sources connected to the same node.
4. Do we need to consider both source and equivalent source? There are 180 sources and 5680 equivalent sources.

## Node Info

1. There are 7355 nodes without networkId information.
2. We have 1898 head node, does it mean we have 1898 feeders?
3. What’s Node Inter? Same nodeId with different networkId. We have 14710 node inter, what does it mean?
4. How to convert the X/Y information to longtitude/latitude?

## Load Info

1. There are 207808 load with only device number and device type information. How to get node and load value information from device number and device type?
2. Multiple customer load with same device number in networkId. Are they different?
3. What’s the difference of load and customer load? Do we need to consider them both?
4. Equivalent load also contains multiple same nodeId, but all value are 0, so we can ignore this one?

## Line Info

1. How to locate overhead/underground line/switch/fuse/recloser with device number?
2. Each sectionId corresponds to a device number? There are 1027156 section but 1344761 section device.
3. What’s intermediate point? There is sectionId for it.
4. Not sure what section udd means and whether it is needed. We have 226510 section udd.
5. Not sure what device udd means. We have 216882 device udd.
6. What’s structure and structure connection? I didn’t see any structureId in other files.

## Capacitor

## Transformer

## Regulator

## Meter

## Load tap changer

## Auto tap changer

## Breaker

## Sectionalizer

## Series reactor

Whether we need to model all above devices. Existing tools only include part of the information above.