1. Why and where should one use UTC time?

Since UTC is unaffected by time zones or daylight saving changes it can be precisely synchronized. UTC time should be used everywhere that needs constant monitoring, data logging and coordination. For example power grid

1. Why and where should one use local time?

Local time should be used when precise synchronization isnt needed and it’s more resonable to use local time. For example billing, work planning (power grid maintenance etc).

1. Which notation of time period definition would you use? (briefly explain possible issues)
   1. left closed, right opened. Example: [2022-08-01T**00:00**Z, 2022-08-01T**01:00**Z)
   2. left closed, right closed. Example: [2022-08-01T**00:00**Z, 2022-08-01T**00:59**Z]

Left closed, right opened is preffered due it’s accuracy. I assume issues are it’s more technical so non-technical users may not understand it.