We claim:

1. A meter electronics (20) configured to notify of an event and apportion process data, the meter electronics (20) comprising:

a memory (230) configured to continuously store the process data (410) for a duration (412);

a processor (210) communicatively coupled to the memory (230), the processor (210) being configured to:

detect one or more events (430) in the process data (410); and

~~at least one of generate a notification (460) and~~ apportion the process data (410) based on the detected one or more events (430) into an apportioned process data (450);

wherein the apportioned process data (450) comprises an event related process data (410a) and a context data for the event related process data (410a).

2. The meter electronics (20) of claim 1, wherein the processor (210) is further configured to generate ~~the~~ a notification (460) ~~based on~~indicating an anterior context length (444).

3. The meter electronics (20) of one of claim 1 or claim 2, wherein the processor (210) being configured to generate the notification (460) comprises the processor (210) being configured to include information related to the detected one or more events (430) in the notification (460).

4. The meter electronics (20) of one of any of the foregoing claims 1 through 3, wherein the processor (210) being configured to generate the notification (460) comprises including information related to downloading the process data (410) in the notification (460).

5. The meter electronics (20) of one of any of the foregoing claims 1 through 4, wherein the processor (210) is further configured to provide the notification (460) via at least one of a port (26) and a user interface (30).

~~6. The meter electronics (20) of one of any of the foregoing claims 1 through 5, wherein the processor (210) is further configured to apportion the process data (410) into an apportioned process data (450), the apportioned process data (450) including an event related process data (410a).~~

~~7.~~6. The meter electronics (20) of claim ~~6~~1, wherein the ~~apportioned process data (450) further includes~~ context data for the event related process data (410a) comprises at least one of an anterior context data (410b) and a posterior context data (410c).

~~8.~~7. The meter electronics (20) of claim ~~6~~1, wherein the processor (210) is further configured to provide the apportioned process data (450) via at least one of a port (26) and an external storage device (236).

~~9.~~8. The meter electronics (20) of one of any of the foregoing claims 1 through ~~8~~7, wherein the processor (210) being configured to detect the one or more events (430) comprises the processor (210) being configured to determine if a process parameter (340) exceeds a threshold.

~~10.~~9. A meter (5) configured to notify of an event and apportion process data, the meter (5) comprising:

a meter electronics (20) configured to continuously store the process data (410) for a duration (412), the meter electronics (20) being configured to:

detect one or more events (430) in the process data (410); and

~~at least one of generate a notification (460) and~~ apportion the process data (410) based on the detected one or more events (430) into an apportioned process data (450);

wherein the apportioned process data (450) comprises an event related process data (410a) and a context data for the event related process data (410a).

~~11.~~10. The meter (5) of claim ~~10~~ 9, wherein the meter electronics (20) is further configured to generate ~~the~~ a notification (460) ~~based on~~indicating an anterior context length (444).

~~12.~~11. The meter (5) of one of claim ~~10~~ 9 or claim ~~11~~ 10, wherein the meter electronics (20) being configured to generate the notification (460) comprises the meter electronics (20) being configured to include information related to the detected one or more events (430) in the notification (460).

~~13.~~12. The meter (5) of one of any of the foregoing claims ~~10~~ 9 through ~~12~~ 11, wherein the meter electronics (20) being configured to generate the notification (460) comprises the meter electronics (20) being configured to include information related to downloading the process data (410) in the notification (460).

~~14.~~13. The meter (5) of one of any of the foregoing claims ~~10~~ 9 through ~~13~~ 12, wherein the meter electronics (20) is further configured to provide the notification (460) via at least one of a port (26) and a user interface (30).

~~15. The meter (5) of one of any of the foregoing claims 10 through 14, wherein the meter electronics (20) is further configured to apportion the process data (410) into an apportioned process data (450), the apportioned process data (450) including an event related process data (410a).~~

~~16.~~14. The meter (5) of claim ~~15~~9, wherein the ~~apportioned process data (450) further includes~~ context data for the event related process data (410a) comprises at least one of an anterior context data (410b) and a posterior context data (410c).

~~17.~~15. The meter (5) of claim ~~15~~9, wherein the meter electronics (20) is further configured to provide the apportioned process data (450) via at least one of a port (26) and an external storage device (236).

~~18.~~16. The meter (5) of one of any of the foregoing claims ~~10~~ 9 through ~~17~~15, wherein the meter electronics (20) being configured to detect the one or more events (430) comprises the meter electronics (20) being configured to determine if a process parameter (340) exceeds a threshold.

~~19.~~17. A method for notification of an event of a meter and apportioning process data of the meter, the method comprising:

continuously storing process data for a duration;

detecting one or more events in the process data; and

~~at least one of generating a notification and~~ apportioning the process data based on the detected one or more events into an apportioned process data;

wherein the apportioned process data comprises an event related process data and a context data for the event related process data.

~~20.~~18. The method of claim ~~19~~17, further comprising generating ~~the~~ a notification ~~based on~~indicating an anterior context length.

~~21.~~19. The method of one of claim ~~19~~ 17 or claim ~~20~~ 18, wherein generating the notification comprises including information related to the detected one or more events in the notification.

~~22.~~20. The method of one of any of the foregoing claims ~~19~~ 17 through ~~21~~ 19, wherein generating the notification comprises including information related to downloading the process data in the notification.

~~23.~~21. The method of one of any of the foregoing claims ~~19~~ 17 through ~~22~~ 20 , further comprising providing the notification via at least one of a port and a user interface.

~~24. The method of one of any of the foregoing claims 19 through 23, further comprising apportioning the process data into an apportioned process data, the apportioned process data including an event related process data.~~

~~25.~~22. The method of claim ~~24~~ 17, wherein the ~~apportioned process data further includes~~ context data for the event related process data comprises at least one of an anterior context data and a posterior context data.

~~26.~~23. The method of claim ~~24~~ 17, further comprising providing the apportioned process data via at least one of a port and an external storage device.

~~27.~~24. The method of one of any of the foregoing claims ~~19~~ 17 through ~~26~~23, further comprising detecting the one or more events if a process parameter exceeds a threshold.