PLE library
（data structure）

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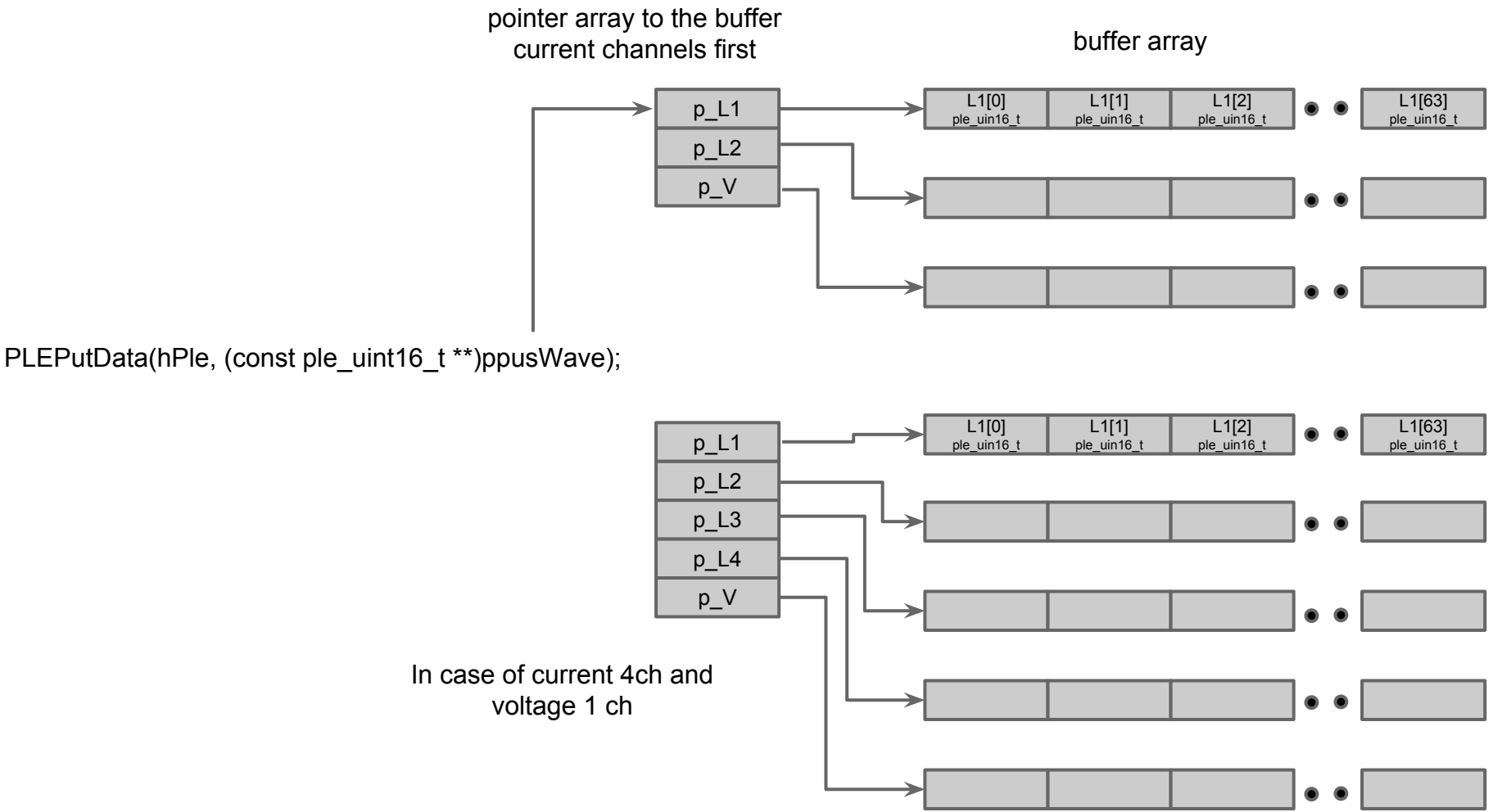
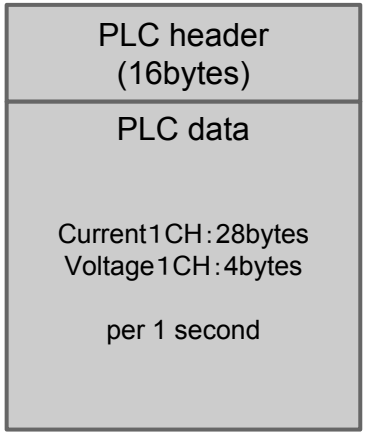
Note (change list from original one)

- Support variable channels
  - User can specify number of channels for both current and voltage.
- Minimize buffer size in the library
  - Size of work area is changed to for 1 second.
  - User has to pull encoded data right after input data of 1 second.
  - In case of encoding data for 100 seconds, if error has occurred in 90 seconds, user has to quit entire encoding process because there is inconsistency between parameter in PLC header which indicate number of encoded seconds and real length of encoded data.
    In this case, sensor should complete communication to server with error.


pointer array to the buffer
current channels first
buffer array
p_L1
p_L2
p_V
L1[0]
ple_uin16_t
L1[1]
ple_uin16_t
L1[2]
ple_uin16_t
L1[63]
ple_uin16_t
PLEPutData(hPle, (const ple_uint16_t **)ppusWave);
p_L1
p_L2
p_L3
p_L4
p_V
L1[0]
ple_uin16_t
L1[1]
ple_uin16_t
L1[2]
ple_uin16_t
L1[63]
ple_uin16_t
In case of current 4ch and
voltage 1 ch




```
/* Header (16 bytes) ver.4.x */
/* plc_uint32_t  unId = PLC_CODE;                4 bytes */
/* plc_uint8_t   ucMajVersion = PLC_MAJ_VERSION;   1 byte  */
/* plc_uint8_t   ucMinVersion = PLC_MIN_VERSION;   1 byte  */
/* plc_uint8_t   ucCurrentChannels;              1 byte  */
/* plc_uint8_t   ucVoltageChannels;              1 byte  */
/* plc_uint8_t   ucExSizeL  = PLC_EXT_SIZE;       1 byte  */
/* plc_uint8_t   ucExSizeV  = PLC_EXT_SIZE;       1 byte  */
/* plc_uint8_t   ucFundametalFrq;                1 byte  */
/* plc_uint8_t   ucBitsPerSample;                1 byte  */
/* plc_uint8_t   ucSamplesPerFrame;              1 byte  */
/* plc_uint8_t   ucFramesPerGroups;              1 byte  */
/* plc_uint8_t   pucReserved[2];                 2 bytes */
```