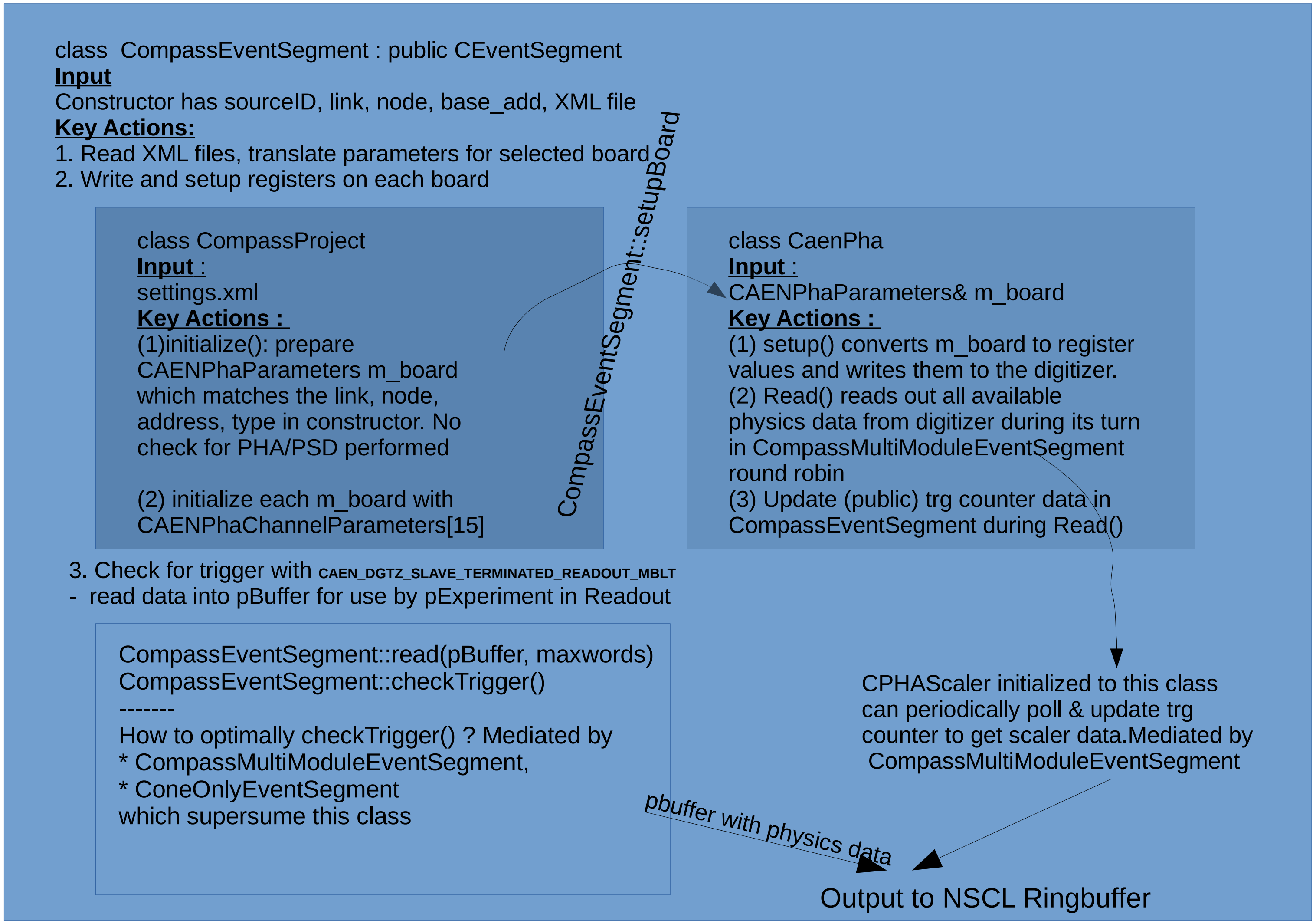


class CompassEventSegment : public CEventSegment
Input
Constructor has sourceID, link, node, base_add, XML file
Key Actions:
1. Read XML files, translate parameters for selected board
2. Write and setup registers on each board

class CompassProject
Input :
settings.xml
Key Actions :
(1)initialize(): prepare CAENPhaParameters m_board which matches the link, node, address, type in constructor. No check for PHA/PSD performed

(2) initialize each m_board with CAENPhaChannelParameters[15]

class CaenPha
Input :
CAENPhaParameters& m_board
Key Actions :
(1) setup() converts m_board to register values and writes them to the digitizer.
(2) Read() reads out all available physics data from digitizer during its turn in CompassMultiModuleEventSegment round robin
(3) Update (public) trg counter data in CompassEventSegment during Read()

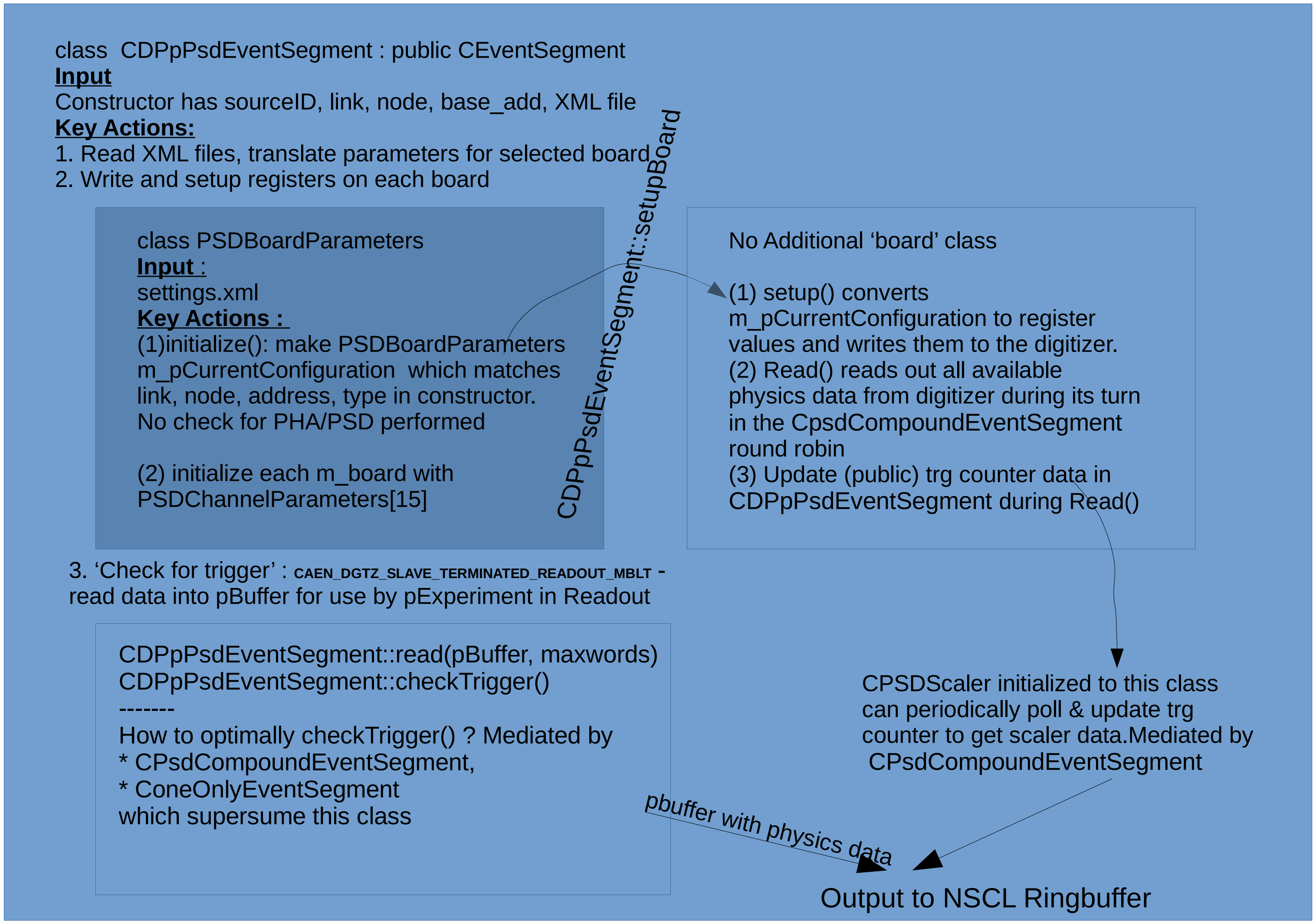
3. Check for trigger with CAEN_DGTZ_SLAVE_TERMINATED_READOUT_MBLT
- read data into pBuffer for use by pExperiment in Readout

CompassEventSegment::read(pBuffer, maxwords)
CompassEventSegment::checkTrigger()

How to optimally checkTrigger() ? Mediated by
* CompassMultiModuleEventSegment,
* ConeOnlyEventSegment
which supersume this class

CPHAScaler initialized to this class can periodically poll & update trg counter to get scaler data.Mediated by CompassMultiModuleEventSegment

Output to NSCL Ringbuffer



class CDPpPsdEventSegment : public CEventSegment
Input
Constructor has sourceID, link, node, base_add, XML file
Key Actions:
1. Read XML files, translate parameters for selected board
2. Write and setup registers on each board

class PSDBoardParameters
Input :
settings.xml
Key Actions :
(1)initialize(): make PSDBoardParameters m_pCurrentConfiguration which matches link, node, address, type in constructor.
No check for PHA/PSD performed

(2) initialize each m_board with PSDChannelParameters[15]

No Additional 'board' class

(1) setup() converts m_pCurrentConfiguration to register values and writes them to the digitizer.
(2) Read() reads out all available physics data from digitizer during its turn in the CpsdCompoundEventSegment round robin
(3) Update (public) trg counter data in CDPpPsdEventSegment during Read()

3. 'Check for trigger' : CAEN_DGTZ_SLAVE_TERMINATED_READOUT_MBLT - read data into pBuffer for use by pExperiment in Readout

CDPpPsdEventSegment::read(pBuffer, maxwords)
CDPpPsdEventSegment::checkTrigger()

How to optimally checkTrigger() ? Mediated by
* CPsdCompoundEventSegment,
* ConeOnlyEventSegment
which supersume this class

CPSDScaler initialized to this class can periodically poll & update trg counter to get scaler data.Mediated by
 CPsdCompoundEventSegment

Output to NSCL Ringbuffer