



Changes in the TPCParameters class:

```
virtual const PadRowLayout2D & getPadLayout (int padLayoutIndex=0) const;  
virtual double getReadoutFrequency (int padLayoutIndex=0) const;  
virtual void setPadLayout (PadRowLayout2D *padLayout, int padLayoutIndex=0);  
virtual void setReadoutFrequency (double readoutFrequency, int padLayoutIndex=0);
```

This leaves the interface 100% backward compatible.

But we need some additional values

- Dynamic range of ADC (What to do in case of TDC of TimePix?)
- Polarity of signal
- Number of readout modules
- Anything else?



Changes in the XML interface:

```
<detectors>
  <detector name=" TPC" geartype="TPCParameters">
    <driftVelocity value="4.548000000e+07" />
    <maxDriftLength value="2.500000000e+03" />

    <readout_module>
      <position>0 0 -2500</position>
      <readoutFrequency value="2.000000000e+07" />
      <PadRowLayout2D type="FixedPadSizeDiskLayout" rMin="3.860000000e+02" rMax="1.6
    </readout_module>

    <readout_module number="2">
      <position>250 250 -2500</position>
      <angle value="0.2" />
      ...
    </readout_module>

    ...

  </detector>
</detectors>
```

Should we also introduce a ReadoutModule class in the interface?