

Development Steps (Rough Outline)

Frontend code:

- Clean up DAQ for easier user control, package with modified midas, distribute

Backend code:

- Correctly “bin” all header information, trailer information, ADC data, etc.
- Histogram/data reconstruction (offline)
- Establish Data Quality Monitor (DQM) that links with midas experiment (online)

```
1  <!-- The purpose of this file is to specify what devices are in each frontend crate -->
2  <!-- To declare frontend AMC130x create root node <frontend id="x"> -->
3  <!-- To declare device in slot 'y' of create, create node <slot id="y" type="device_type" -->
4  <!-- Select "device_type" from FC7, WFD, or Rider (WFD and Rider are the same device) -->
5  <?xml version="1.0" encoding="UTF-8"?>
6  <frontend id="0">
7      <slot id="1" type="FC7" />
8      <slot id="2" type="FC7" />
9      <slot id="5" type="WFD" />
10     <slot id="6" type="FC7" />
11     <slot id="7" type="WFD" />
12     <slot id="8" type="WFD" />
13     <slot id="10" type="WFD" />
14     <slot id="11" type="WFD" />
15     <slot id="12" type="WFD" />
16 </frontend>
17 <frontend id="1">
18     <slot id="1" type="WFD" />
19     <slot id="2" type="FC7" />
20     <slot id="3" type="WFD" />
21     <slot id="4" type="WFD" />
22     <slot id="5" type="WFD" />
23     <slot id="6" type="FC7" />
24     <slot id="7" type="WFD" />
25     <slot id="8" type="WFD" />
26     <slot id="9" type="FC7" />
27     <slot id="12" type="WFD" />
28 </frontend>
```

Example crate contents configuration file