

# APS areaDetector Coordination

## Overview

Integration of imaging (and other advanced) detectors into beam lines continues to be a pressing need at the APS. Using the EPICS areaDetector module, integration has become a routine process.

1. decide on the detector
2. check if the detector is supported by the EPICS areaDetector module:
  - a. areaDetector organization: <https://github.com/areaDetector>
  - b. APS Detector Group: <https://www1.aps.anl.gov/Detectors/Detector-Pool>
    - imaging: <https://www1.aps.anl.gov/Detectors/Area-Detectors>
    - spectroscopy: <https://www1.aps.anl.gov/Detectors/Spectroscopic-Detectors>
    - vendor links: <https://www1.aps.anl.gov/Detectors/Useful-Links>
  - c. APS drivers: areaDetector software drivers recently completed
  - d. APS AD queue: [areaDetector software driver development queue](#)
  - e. possible vendor support for EPICS areaDetector
  - f. other possible locations ... (**no single comprehensive list exists**)
3. If no driver can be found, talk with BCDA ([jemian@anl.gov](mailto:jemian@anl.gov)) to get it in the queue
4. acquire the detector
5. optional: verify the detector works using the tools provided by the vendor
6. if no EPICS areaDetector driver, write the driver
  - a. current queue: [areaDetector software driver development queue](#)
7. deploy the detector with the appropriate EPICS areaDetector driver
  - a. current queue: [APS/XSD areaDetector deployment queue](#)

## Meetings

The XSD staff working on writing areaDetector drivers meets weekly. Links to recent meetings are updated here:

- [areaDetector software driver development queue#Meetings](#)

Note: Each meeting's minutes are recorded in a JIRA server that requires a login.

## Support Groups

Currently, there are four XSD groups providing support for EPICS areaDetector:

Support Group	Roles
XSD Beamline Controls and Data Acquisition Group	write drivers, deploy & maintain software for beam line detectors
XSD Detector Group	develop new detectors and associated EPICS interfaces
XSD Detector Pool	deploy & maintain detector pool detectors