

## Microedge/Mist

Microedge or Mist would be deploying PARADISE one step further from a laptop by putting it on a device like a phone, tablet, or Raspberry Pi. The device would have an instance of PARADISE running for collection, ingest, storage and query along with the ability to sync this data up to a larger instance of PARADISE whether it be running on a laptop, server, or the cloud.

The project team will meet the following objectives:

1. Understanding the PARADISE data Framework
2. Identifying ideal devices for deploying the PARADISE data framework at the micro edge
3. Provide a decision briefing on which devices are available, the advantages and disadvantages of using each device, and a recommendation on the preferred device.
4. Build a miniaturized data lake architecture and processors on the select device.
5. Provide comparison and recommendations for devices: Phone, Tablet, and Raspberry Pi.
6. Use additional devices to collect and synch data with the data lake and processors on the selected device.
7. Create a PARADISE framework on the micro edge with a device serving as the data lake, and processors and one (or more) other devices serving as a data node for collection.
8. Output: PARADISE running on a low-bandwidth device.

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