

# Reference Architecture

## Description

The purpose of this area is to provide some example guidelines for those organizations who want to deploy an EdgeX system in a Oil&Gas concern.

Test beds with other parties such as IIC could be included as well.

## Requirements

Provide information on the following:

- Hardware
- Software
- Notes

## Design

Reference Case	Specific Scenario	HW specs for EdgeX Gateway	EdgeX Microservices	Notes
Single Asset	Small Standalone Equipment (Pump, Separator, Manifold, Tank)			
	Big Standalone Equipment (Gas Compressor, Gas Turbine)			
	Well Intervention Unit (Frac, Coiled Tubing, Wireline, Process Unit)			
	Artificial Lift System (PCP, Rod Pump, ESP, Plunger Lift, Gas Lift)			
On-Shore Facility	Land Rig			
	Small Production Facility (up to 1,000 sensor/control inputs)			
	Medium Production Facility (up to 10,000 sensor/control inputs)			
	Big Production Facility (up to 100,000 sensor/control inputs)			
Off-Shore Facility	Off-Shore Rig			
	Small Off-Shore Facility (up to 1,000 sensor/control inputs)			
	Medium Off-Shore Facility (up to 10,000 sensor/control inputs)			
	Big Off-Shore Facility (up to 100,000 sensor/control inputs)			

## Code

No additional code is necessary as part of this activity.

## Current status

Waiting for EdgeX 0.5 Docker Compose file to start the tests that will provide the basis to generate recommendations on the reference cases. More representative tests will need to be taken with EdgeX 1.0 Docker Compose file since the California Release will be closer to provide the real performances expected on a EdgeX System.