

## Feature list of pybacnet and BACpypes

### Sources:

BACnet stack: <http://bacnet.sourceforge.net/>

Pybacnet: <https://github.com/BuildingRobotics/pybacnet>

Description:

Documents and examples of Pybacnet

BACpypes: <https://github.com/JoelBender/bacpypes>

Description:

Documents and examples of BACpypes

<http://bacpypes.sourceforge.net/index.html>

Description:

Tutorial of BACpypes

Pybacnet writes all BACnet services in functions, users can easily do the services by calling that function. But it only supports readProperty, writeProperty, and who-is services.

BACpypes is a BACnet stack written in python, it supports more BACnet services, including readPropertyMulti and writePropertyMulti, which we care a lot, and some other services like who-has, I-have, acknowledgeAlarm, confirmedCOVNotification and etc. When use BACpypes, unlike Pybacnet just call functions, users will have to build the local device object, and then use that object to make requests. However, user can build the service function by themselves, and call that service function when they want execute some services.

Overall, BACpypes has more BACnet services, and the code quality/documentation is more or less the same with Pybacnet.

*(the next page is some detailed information about Pybacnet and BACpypes)*

## Pybacnet

1. readProperty  
[ReadProperty](#), the link is an example of smap drivers by using pybacnet to read or write
2. writeProperty  
[WriteProperty](#), the link is an example of smap drivers by using pybacnet to read or write
3. readPropertyMulti  
NO
4. writePropertyMulti  
NO
5. Address devices:  
[Who-Is](#), the link is the scan function by pybacnet using who-is services
6. Code Quality/documentation  
Use bacnet.Init to build the local device object, use bacnet.read\_prop, write\_prop and bacnet.whois functions to do BACnet services, users don't need to build local device object, make the request, the library functions will do that for users.

## BACpypes

1. readProperty  
[ReadProperty](#), this is a BACpypes application that read properties of objects.
2. writeProperty  
[WriteProperty](#), this is a BACpypes application that write value to objects.
3. readPropertyMulti  
[ReadProperty Multiple](#), this is a BACpypes application that read multiple objects.
4. writePropertyMulti  
Yes, BACpypes has writePropertyMulti service, but I haven't find example, I find a list of functions user will use when do [writePropertyMulti service](#).
5. Address BACnet devices  
[Who-Is, I-am](#), this is a BACpypes application that does who-is and i-am services.  
[Who-has, I-have](#), this is a BACpypes application that does who-has and i-have services.
6. code quality/documentation  
When use BACnet services, users will have to build a local device object first, then build the requests, and then use that local object to make the requests.