

1. RETRIEVE

The iBCS Retrieve Restful API functionality will be enhanced to allow users to retrieve information on more than just 1 device at a time. Users will now be able to retrieve the status of all the devices in their account, all the devices in a specification location, or the status of just a specific type of device.

- Retrieve will be accessed at:
<https://iboot.co/services/v2.1/retrieve>
- Retrieve will use one of the following the following JSON structures:

RETRIEVE ALL

This version of the Retrieve Command will Retrieve the status of all devices in the account. The user can optionally select all devices of a specific type.

```
{
  "token": "", //Valid Token
  "all": ["blank,G2,G2S,G2+,PoE,PDU"] //Array of devices types or blank for all
}
```

RETRIEVE LOCATION

This version of the Retrieve Command will Retrieve the status of all devices in a selected location. The user can optionally select all devices of a specific type.

```
{
  "token": "", //Valid Token
  "location": "location" //valid location name
  "all": ["blank,G2,G2S,G2+,PoE,PDU"] //Array of devices types or blank for all
}
```

RETRIEVE SPECIFIC

This version of the Retrieve Command will Retrieve the status of the device with the selected MAC address.

```
{
  "token": "", //Valid Token
  "mac": [""] //Array of MAC addresses to retrieve
}
```

- Retrieve will respond with the following structure for iBoot-G2/PoE:

```
{
  "success": "true", //Result code [true|false]
  "message": "", //Message from the server
  "devices": [
    {
      "name": "display name", //Device Name as displayed in the Cloud
      "location": "location", //The name of the location of the device
      "online": "true/false", //Online status
      "mac": "mac address", //MAC address of the device
      "ip": "ip address", //from shadow DB
      "lastContact": "timestamp", //Timestamp of last valid long poll
      "status": { //Status Information
        "Main": "ON", //Main Outlet Status
        "AP-1": "Fail", //Autoping-1 Status
        "AP-2": "OK" //Autoping-2 Status
      },
      "triggerInfo": { //Trigger Information
        "APT1": "0" //Autoping Trigger Info
      }
    }
  ]
}
```

- Retrieve will respond with the following structure for iBoot-G2+/G2S:

```

{
  "success":"true", //Result code [true/false]
  "message":""," //Message from the server
  "devices": [
    {
      "name":"display name", //Device Name as displayed in the Cloud
      "location":"location", //The name of the location of the device
      "online":"true/false", //Online status
      "mac":"mac address", //MAC address of the device
      "ip":"ip address", //from shadow DB
      "lastContact":"timestamp", //Timestamp of last valid long poll
      "status":{ //Status Information
        "Main":"On" //Main Outlet Status (Valid in expansion mode)
        "EXP-1":"OFF", //EXP-1 Status (Valid in expansion mode)
        "EXP-2":"OFF", //EXP-2 Status (Valid in expansion mode)
        "Main-2":"ON", //Main-2 Outlet Status (Valid in Independent IO Mode)
        "Input-1":"Closed", //Input-1 Status (Valid in Independent IO Mode)
        "Input-2":"Closed", //Input-2 Status (Valid in Independent IO Mode)
        "Output-1":"Open", //Output-1 Status
        "Output-2":"Open", //Output-2 Status
        "AP-1A":"Inactive", //Autoping-1A Status
        "AP-1B":"Inactive", //Autoping-1B Status
        "AP-2":"Inactive", //Autoping-2 Status
        "AP-3":"Inactive", //Autoping-2 Status
        "HB":"OK" //Heartbeat Status
      },
      "triggerInfo":{ //Trigger Information
        "APT1":"0", //Autoping-1A & 1B Trigger Info
        "APT2":"0", //Autoping-2 Trigger Info
        "APT3":"0", //Autoping-3 Trigger Info
        "HBT1": "0" //Heartbeat Trigger Info
      }
    }
  ]
}

```

- Retrieve will respond with the following JSON structure for the iBoot-PDU:

```
{
  "success": "true", //Result code [true/false]
  "message": "", //Message from the server
  "devices": [
    {
      "name": "display name", //Device Name as displayed in the Cloud
      "location": "location", //The name of the location of the device
      "online": "true/false", //Online status
      "mac": "mac address", //MAC address of the device
      "ip": "ip address", //Future Use: it will be 0.0.0.0 for now
      "lastContact": "timestamp", //Timestamp of last valid communication.
      "status": [ //Status Information
        {
          "Outlet-1": "On" //Outlet-1 Status
        },
        {
          "Outlet-2": "On" //Outlet-2 Status
        },
        {
          "Outlet-3": "On" //Outlet-3 Status
        },
        {
          "Outlet-4": "On" //Outlet-4 Status
        },
        {
          "Outlet-5": "On" //Outlet-5 Status
        },
        {
          "Outlet-6": "On" //Outlet-6 Status
        },
        {
          "Outlet-7": "On" //Outlet-7 Status
        },
        {
          "Outlet-8": "On" //Outlet-8 Status
        }
      ],
      "triggerInfo": [] //Future Use May not be implemented
    }
  ]
}
```