Mioty activation steps

Changelog

10/11/2021 v.1.1

- Added support for over-the-air attachment devices (also via multiple basestations at once)
- Additional read-only fields have beed hadded to the basestation page
- Added support for BSSCI Status Operation
- A status request is sent to the basestations right after connecting. This allows ResIOT to align its clock with the basestation's. In case of retained data while the basestation was offline, ResIOT is now able to store it locally at the exact moment in time it happened, instead of relying on the basestation's clock.

28/10/2021 v.1.0

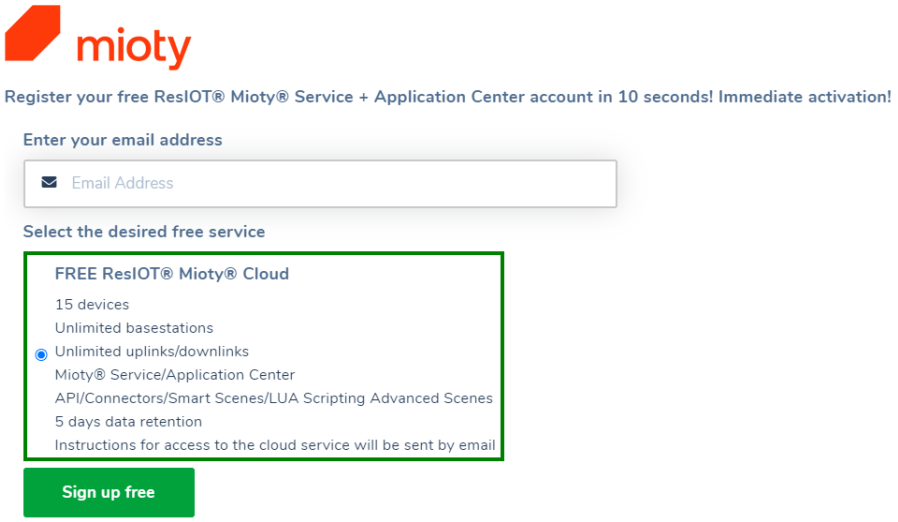
- Mioty Basestation registration
- Support for Mioty BSSCI version 0.9 and 1.0.0, supported operation: "con","conRsp","conCmp","ping","pingRsp","pingCmp","attPrp","attPrpRsp","attPrpCmp","ulData","ulDataRsp","ulDataCmp"
- Support for Mioty Device Pre-Attached and Attachment propagation on all connected basestations
- Uplink deduplication/aggregation for uplinks arriving through multiple basestations simultaneous
- Uplink management,log, data retention and ResIOT Lua scripting integration for decode

Next steps:

- Basestation remote management and access with ResIOT Merlin IoT Box
- Operation: "detPrp","detPrpRsp","detPrpCmp","status","statusRsp","statusCmp"
- Downlinks
- Detach operation

1 - Account Registration

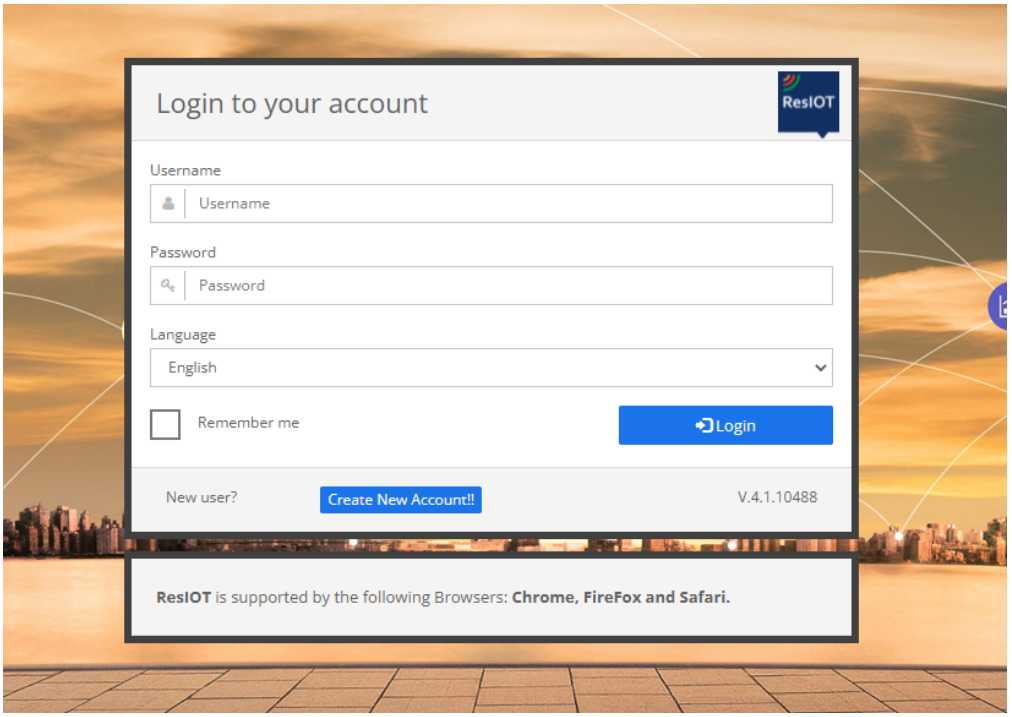
Head to https://www.resiot.io/en/mioty-sign-up-free/ and register an account with a valid email address:



2 - Acces the IOT Platform

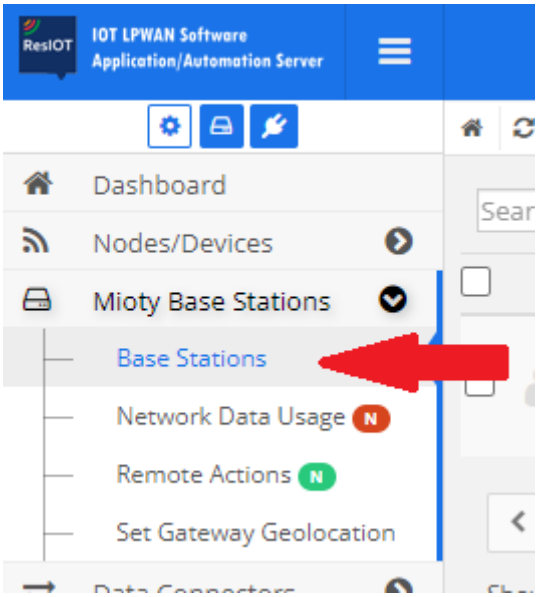
Your account activation email contains the required login credentials and link access. Head to https://mioty.resiot.io/ or click the link in the email body.

Finally login with your credentials:

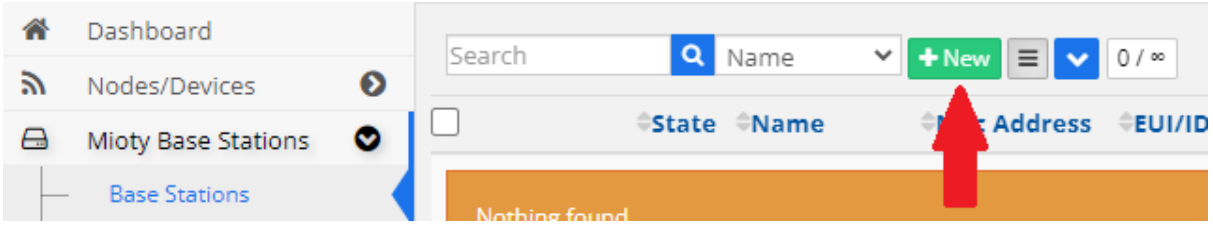


3 - Base Station Registration

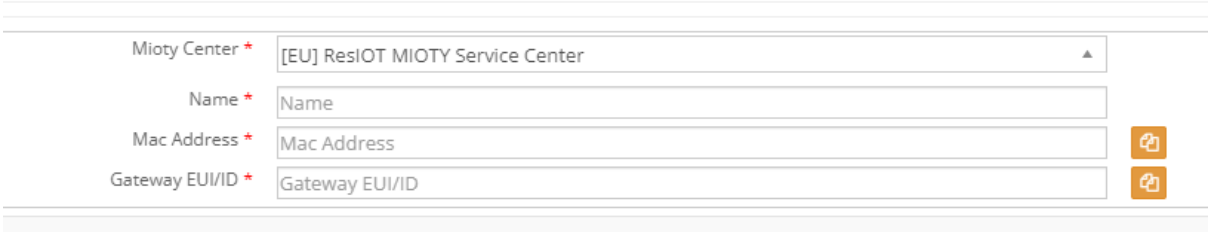
After logging into the platform, It's now time to register your base station(s). Head to the Mioty Base Stations menu:



Now press the New button, and register a Mioty Base Station:

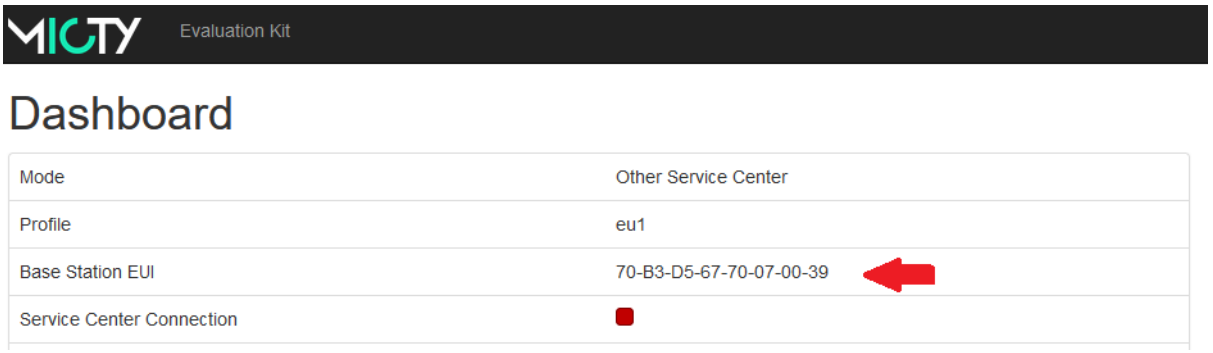


Now enter the following required data:



Mioty center: Select the pre-registered ResIOT Mioty Service Center.
Name: this is just a label field.
Mac Address: this is a required field where you can enter the mac address of your base station. It doesn't have to be the real mac address of your base station as this is only a label field.
Gateway Eui/ID: Enter the EUI of your base station. This is what is going to grant access to your base station so this has to be a valid value.

The Eui of your base station can be retrieved in your Mioty base station dashboard:



Finally, all you have to do is connect your base station to the ResIOT Service Center.
The service center is running with TLS on:
Service Center Address: mioty.resiot.io
Service Center Port: 53000
TLS CA Certificate:
-----BEGIN CERTIFICATE-----
MIIDzTCCArWgAwIBAgIUYbUeJBxDcDNYZHxfXl/Ojpyr7gIwDQYJKoZIhvcNAQEL
BQAwdjELMAkGA1UEBhMCSVQxDjAMBgNVBAgMBU1JTEFOMQ4wDAYDVQQHDAVNS
UxB
TjEUMBIGA1UECgwLVUJMU09GVFdBUkUxDzANBgNVBAsMBlJlc0lPVDEgMB4GCSqG
SIb3DQEJARYRc3VwcG9ydEByZXNpb3QuaW8wHhcNMjExMDIyMDcxNDE0WhcNMzEx
MDIwMDcxNDE0WjB2MQswCQYDVQQGEwJJVDEOMAwGA1UECAwFTUlMQU4xDjAMBg
NV
BAcMBU1JTEFOMRQwEgYDVQQKDAtVQkxTT0ZUV0FSRTEPMA0GA1UECwwGUmVzS
U9U
MSAwHgYJKoZIhvcNAQkBFhFzdXBwb3J0QHJlc2lvdC5pbzCCASIwDQYJKoZIhvcN
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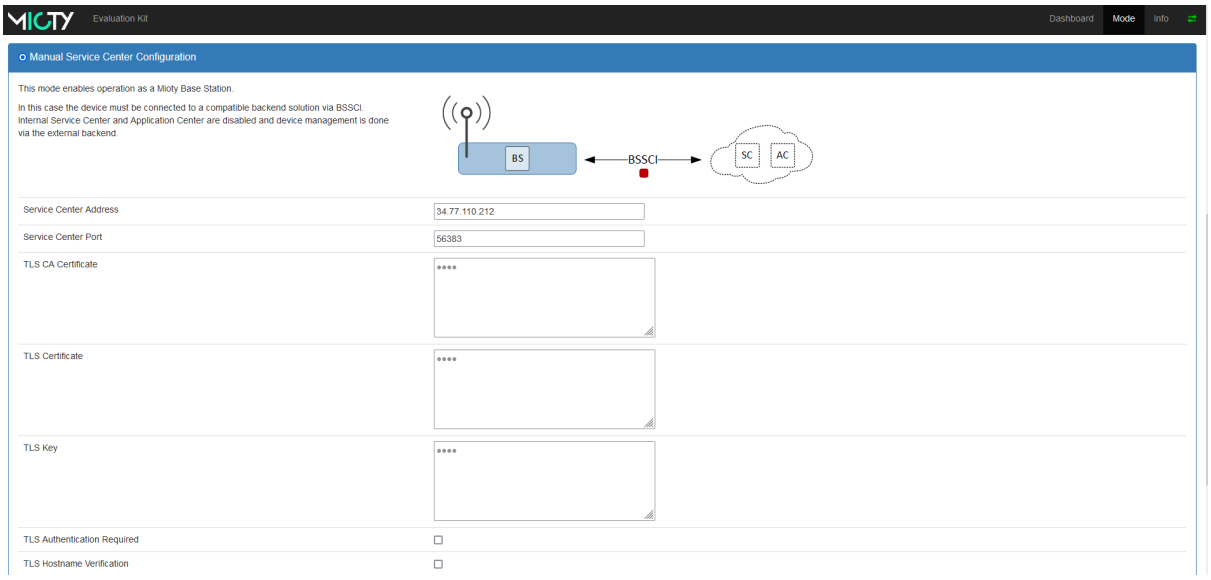
1QtWzV0vVafK/neYGbo9uyTYinHSopVw+Bo2BjaVMbtA6KMLQFlwGaItgJqwaCnC
Cy9qG6OGt72l3M4csuxl7pqJ/WOjgQ5drBnGLtK9W+HeiA5aqTogBe39ix9MISNV
37q+ljqwrISM5UCaKEEuJ0JTaUTeBzG8zuZjJynkKBTIN32VtcCkVJLyeO9OkhHu
baMT6cuyl9cp45x+Js7OYOkIcDeHexL3IrQ3vaoT2YjBux/GxZ8hVFPT1MIM6oqB
bKFWHxw6dFA/3BPfWYAcNAQ=
-----END CERTIFICATE-----

Head to your **mode** menu in your gateway configuration panel and fill as follows:

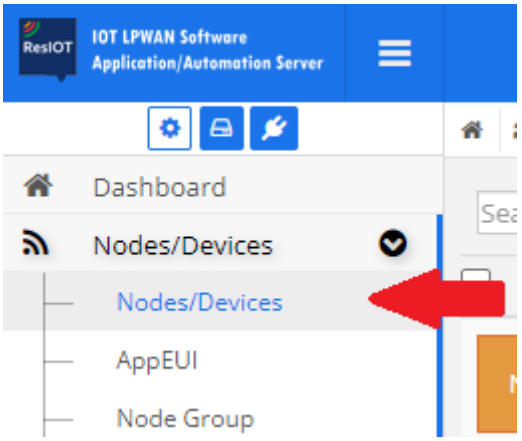


Now the gateway should be connecting to the ResIOT Mioty Service Center! You should be getting positive connection logs in your mioty base station dashboard panel.

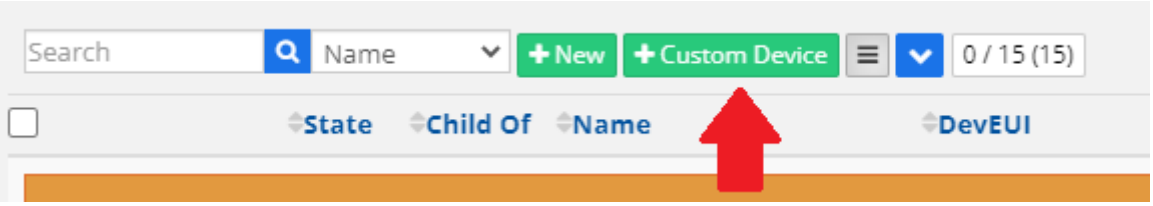
All is now set, time to configure the devices!

4 - Register your device(s)

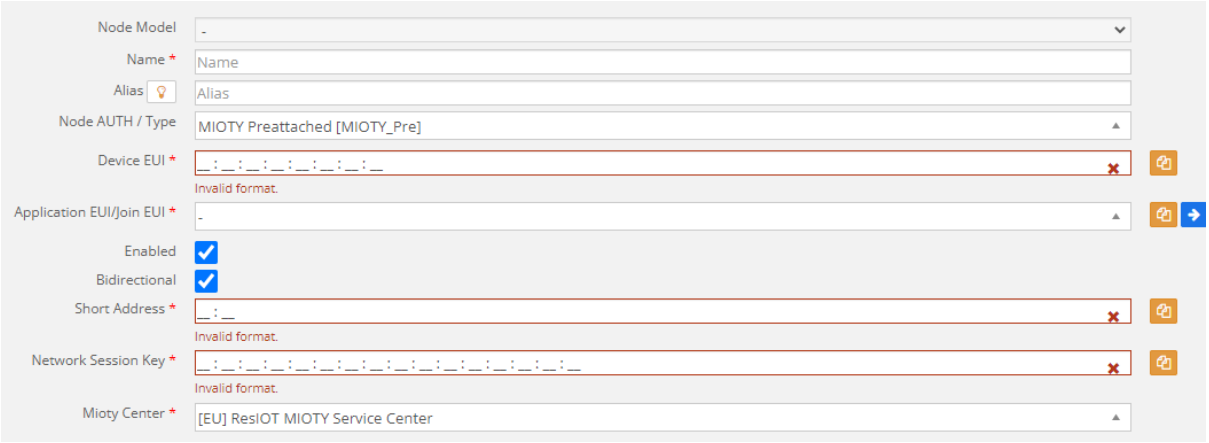
Currently, ResIOT only supports preattached devices. Head to the Devices menu:



Create a new Custom device:



ResIOT devices have many options. The minimum required fields to register a device to your service center are the following:



Node AUTH type: select MIOTY Preattached
device: enter the device eui. This should be provided by your device manufacturer
Application EUI: create a valid application EUI. This is only needed by ResIOT. Any random value will do.
Short Address: enter the device short address. This should be provided by your device manufacturer
Network Session Key: enter the device session key. This should be provided by your device manufacturer
Bidirectional: this information should be provided by your device manufacturer
Mioty Center: select the ResIOT Mioty Service Center

5 - Using ResIOT

You should be now receiving data from your base stations. Enjoy ResIOT!