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","uIDa ta","uIDataRsp","uIDataCmp"
- 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 <u>https://www.resiot.io/en/mioty-sign-up-free/</u> and register an account with a valid email address:

	mioty		in 10 m			
gister	your free ResiO1® Mioty® Service + Application Center	account	in 10 se	econas! In	nmediate a	ctivatio
Enter y	your email address Email Address					
Select	the desired free service					
Select FR	the desired free service REE ResIOT® Mioty® Cloud					
Select FR 15	the desired free service REE ResIOT® Mioty® Cloud devices					
Select FR 15 Un	the desired free service REE ResIOT® Mioty® Cloud devices limited basestations					
Select FR 15 Uni () Uni	the desired free service REE ResIOT® Mioty® Cloud devices limited basestations limited uplinks/downlinks					
Select FR 15 Uni Oni Mic	the desired free service REE ResIOT® Mioty® Cloud devices limited basestations limited uplinks/downlinks oty® Service/Application Center					
Select FR 15 Un Mic AP	the desired free service REE ResIOT® Mioty® Cloud devices limited basestations limited uplinks/downlinks oty® Service/Application Center l/Connectors/Smart Scenes/LUA Scripting Advanced Scenes					

2 - Acces the IOT Platform

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

Finally login with your credentials:

	and the second s		
-	Login to your account	ジ ResIOT	
	Username		
	🚢 Username		
	Password		
	Re Password		
	Language		
	English	~	\rightarrow
1	Remember me	• 〕 Login	
A ALLAN	New user? Create New Account!!	V.4.1.10488	
	ResIOT is supported by the following Browsers: Chrome, FireF	ox and Safari.	
//		++	11

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:

*	Dashboard		Soarch	O Nama	
۳	Nodes/Devices	Ø	Search	Name	
	Mioty Base Stations	۲		≑State ≑Name	Or Address ↓EUI/ID
	Base Stations		Nothing f	ound	

Now enter the following required data:

Mioty Center *	[EU] ResIOT MIOTY Service Center	
Name *	Name	
Mac Address *	Mac Address	Q
Gateway EUI/ID *	Gateway EUI/ID	Q

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:

Evaluation I

Dashboard

Mode	Other Service Center
Profile	eu1
Base Station EUI	70-B3-D5-67-70-07-00-39
Service Center Connection	•

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-----

MIIDzTCCArWgAwIBAgIUYbUeJBxDcDNYZHxfXI/Ojpyr7gIwDQYJKoZIhvcNAQEL BQAwdjELMAkGA1UEBhMCSVQxDjAMBgNVBAgMBU1JTEFOMQ4wDAYDVQQHDAVNS UxB

TjEUMBIGA1UECgwLVUJMU09GVFdBUkUxDzANBgNVBAsMBIJIc0IPVDEgMB4GCSqG SIb3DQEJARYRc3VwcG9ydEByZXNpb3QuaW8wHhcNMjExMDIyMDcxNDE0WhcNMzEx MDIwMDcxNDE0WjB2MQswCQYDVQQGEwJJVDEOMAwGA1UECAwFTUIMQU4xDjAMBg NV

BAcMBU1JTEFOMRQwEgYDVQQKDAtVQkxTT0ZUV0FSRTEPMA0GA1UECwwGUmVzSU9U

```
MSAwHgYJKoZIhvcNAQkBFhFzdXBwb3J0QHJlc2lvdC5pbzCCASIwDQYJKoZIhvcN
AQEBBQADggEPADCCAQoCggEBAOcjC7Qy+TPNjawzGRmK/IOk6w54Svsuyrj6bXhn
+Hvq0hjyPATaUo173ISDIYpJHirJnIIKKpju+1HkBhcIABKu1ihetruLMAC/LpqX
MVY8N07vkwoVOmaAIQKhlvH9cCFxHt4138+iFXJUAIayM2R9ibzT1Ri0eUZwTO9T
zBq61g4b5npikTICwIqquJK0wfQ3ly60hN2es1x8DfmJX/G6419rs+CUJPhs+rrA
HqMDAmnp55paOFI6V9ue2UIghdy/50DQecZsX+UINMdDHjhmQdxlp6LbsmQncLXt
z9mJGZawmUXBG5IrcyppcdCxJue0GtA+rT5rzj2kw3QhxfECAwEAAaNTMFEwHQYD
VR0OBBYEFN4x5nvax9AJ3ca9Po61yInNM672MB8GA1UdIwQYMBaAFN4x5nvax9AJ
3ca9Po61yInNM672MA8GA1UdEwEB/wQFMAMBAf8wDQYJKoZIhvcNAQELBQADggEB
AE1V9fpMORGDoy4ILqjIEUyDtEO/U9Bo6C8rnC+CF/F4f90Da/26kNZ9OkUc5bEX
1QtWzV0vVafK/neYGbo9uyTYinHSopVw+Bo2BjaVMbtA6KMLQFIwGaItgJqwaCnC
Cy9qG6OGt72I3M4csuxI7pqJ/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:

Evaluation Kit	Dashtuard Mode Info 😅	
Manual Service Center Configuration		
This mode enables operation as a Mioly Base Station. In this case the device must be connected to a compatible backend solution via BSSCI. Internal Service Certier and Application Certier are disabled and device management is done via the external backend.		
Service Center Address	34.77.110.212	
Service Center Port	56383	
TLS CA Centificate	 //	
TLS Certificate	 	
TLS Key	····	
TLS Authentication Required		
TLS Hostname Verification		

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:

Search	Q Name	✓ + New	+ Custom Device	= V 0 / 15 (15)
	≑State ≑	Child Of 🔅 Nar	ne	≑DevEUI

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

Node Model	-	~	
Name *	Name		
Alias 💡	Alias		
Node AUTH / Type	MIOTY Preattached [MIOTY_Pre]		
Device EUI *		×	C
Application EUI/Join EUI *	Invalid format.	*	2
Enabled			
Bidirectional			
Short Address *	_:_ :	×	2
	Invalid format.		_
Network Session Key *		×	ආ
	Invalid format.		
Mioty Center *	[EU] ResIOT MIOTY Service Center	*	

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!