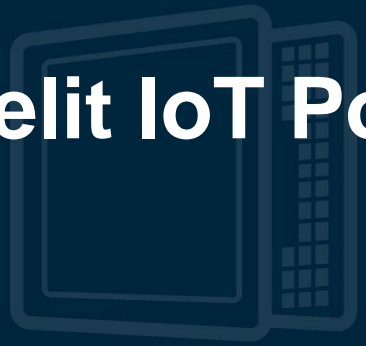




Telit IoT Portal



ENABLING
END-TO-END IOT SOLUTIONS
MODULES. CONNECTIVITY. PLATFORMS.



Telit IoT Portal

Telit IoT Portal это уникальная облачная платформа сервисов, созданная для простого и быстрого подключения Вашей «вещи» к приложению.

Быстрая интеграция любого устройства или датчиков к любому приложению или системе.

THE NEW WAY **TO ONBOARD YOUR THINGS**



IoT MODULES



IoT CONNECTIVITY



IoT PORTAL

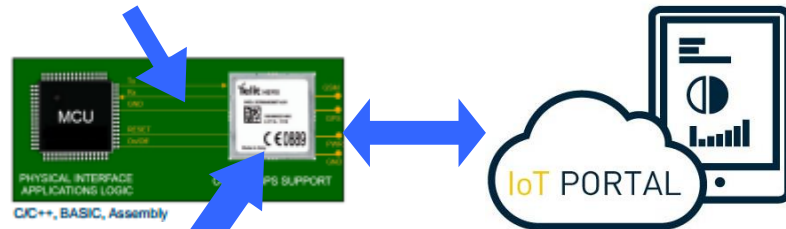
Сфокусируйтесь на создании приложений, а не на инфраструктуре.

Telit IoT Portal – встроенные в модуль API

При разработке устройства на модулях Telit коммуникация с порталом возможна в виде обычных AT команд.

- Не требуется управление IP стеком приложением, запущенном на внешнем микроконтроллере.
- Встроенный облачный агент управляет подключением к порталу для упрощения интеграции вашего устройства с порталом.

M2M AT команды



Встроенный API агент

IoT Portal - особенности

IoT устройство

- Log сообщения
- Свойства
- Атрибуты
- Сигнализации
- Место положение
- Удаленное выполнение
- Триггеры
- ...

Создание IoT Portal аккаунта



Настройка вашей организации,
«вещи» и приложения



Подключение Вашего устройства к порталу



Начало отправки данных

Portal

- portal.telit.com

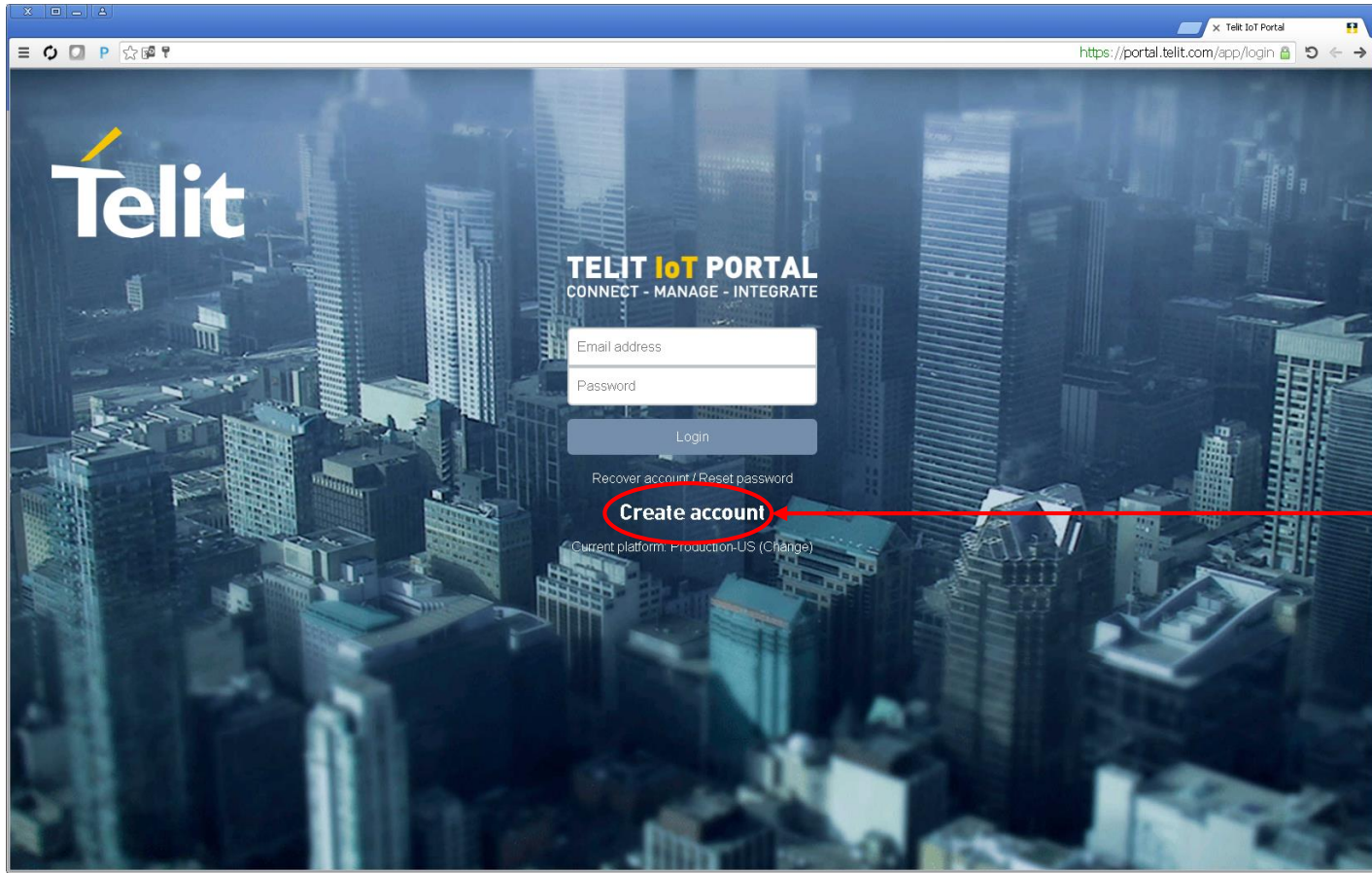
Демо логин:

demo@devicewise.com

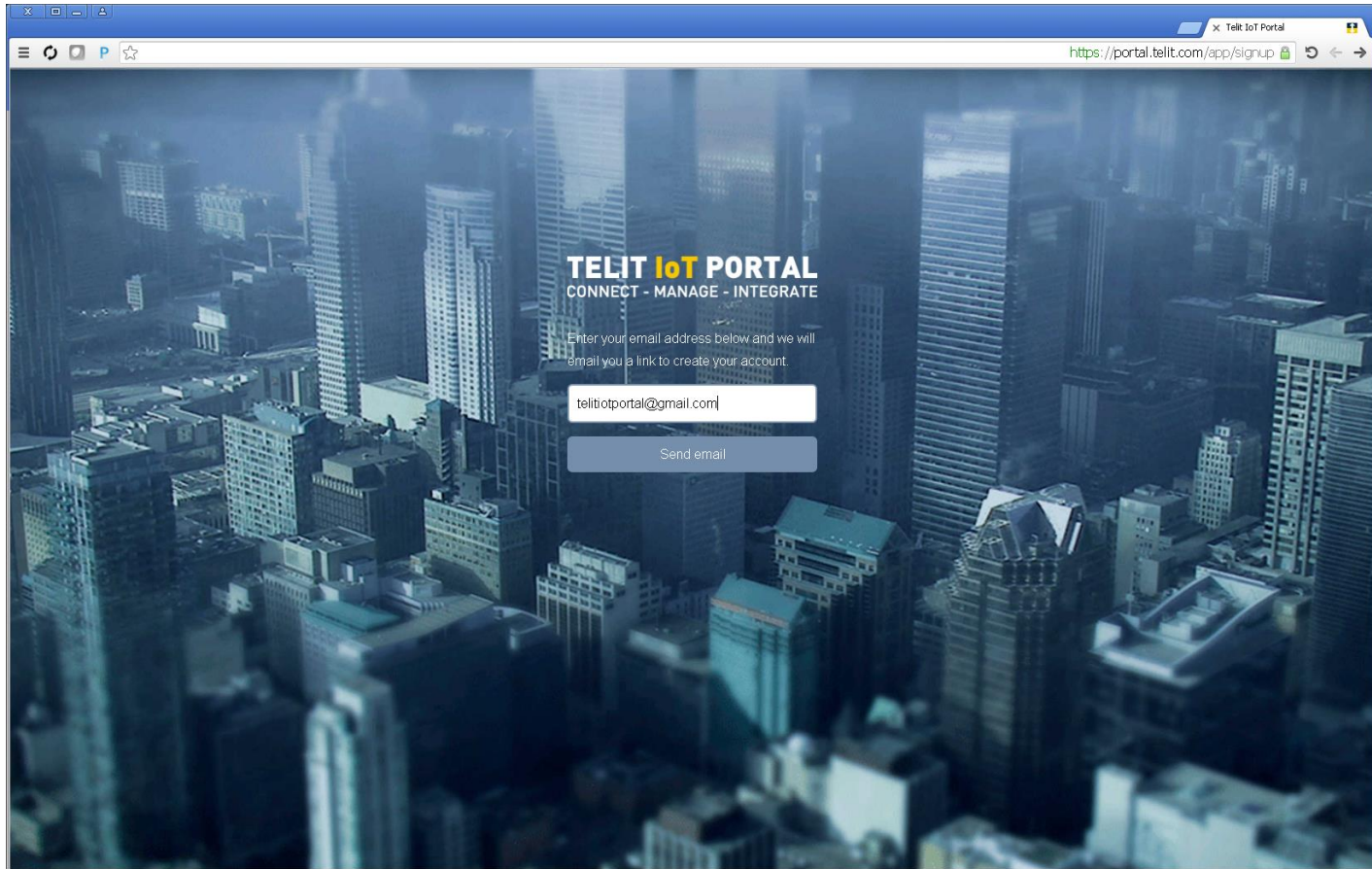
Демо пароль:

demo123





Начнем отсюда





Browser window showing a Gmail interface. The address bar displays <https://mail.google.com/mail/?zx=nr5mmbboehg7#inbox/1571e945dc460a51>. The page title is "Complete your Telit IoT Portal account registration".

Gmail - 1 of 2

Complete your Telit IoT Portal account registration Inbox x

COMPOSE

Inbox (1)

Starred

Sent Mail

Drafts

More ▾

Telit IoT Portal <noreply@devicewise.com> 4:27 PM (0 minutes ago) ☆ ↶ ▾

To me ▾

Thank you for requesting a new Telit IoT Portal user account.
To complete the registration process, please click on [this link](#) or copy and paste this URL (<https://portal.telit.com/app/signup/94ddd62c30f6241812e71f17af6a8a695>) into your browser.
Upon submitting the completed registration form, you will receive a welcome email and be ready to start creating your own solutions for m2m and the Internet of Things.

Click here to [Reply](#) or [Forward](#)

0 GB (0% of 15 GB used) [Manage](#) [Terms](#) - [Privacy](#)

No recent chats
[Start a new one](#)



Account creation for
telitiportal@gmail.com

[View password rules](#)

Password <input type="password" value="*****"/>	Company <input type="text" value="teliot"/>
Password verification <input type="password" value="*****"/>	Org key <input type="text" value="TELIOT"/>
First name <input type="text" value="lot"/>	Title <input type="text"/>
Last name <input type="text" value="portal"/>	Office phone <input type="text" value="Office phone number"/>
Timezone <input type="text" value="UTC"/>	Mobile phone <input type="text" value="Mobile phone number"/>
Projected devices <input type="text" value="Less than 1000"/>	
Market segment <input type="text" value="None"/>	
Country <input type="text" value="United States"/>	
Account manager <input type="text" value="Not a current customer"/>	
<input type="button" value="Create account"/>	

Создать аккаунт



https://portal.telit.com/app/login

You have successfully signed up. You may now log in.

Telit

TELIT IoT PORTAL

CONNECT - MANAGE - INTEGRATE

teliotportal@gmail.com

.....

Login

[Recover account / Reset password](#)

Create account

Current platform: Production-US (Change)

Вход



https://portal.telit.com/app/licenses

(b) to anyone on the U.S. Treasury Department's list of Specially Designated Nationals or the U.S. Department of Commerce Denied Person's List or Entity List. By using the Service, you represent and warrant that you are not located in, under control of, or a national or resident of any such country or on any such list.

17. Governing Law and Venue. The governing law and court venue provisions of the Incorporating Agreement shall apply hereto. If no Incorporating Agreement is applicable, then the following provisions shall apply. Regardless of your jurisdiction of residence, or the jurisdiction where you engage in business or from which you access the Service, your use of the Service and this Agreement will be exclusively governed by and construed in accordance with the laws of the State of New York, USA, excluding any otherwise applicable provisions of conflict of laws. In the event that a dispute is not settled by negotiations within thirty (30) days, the state courts in New York County in the State of New York and the federal District Court for the Southern District of New York, respectively, shall have sole and exclusive jurisdiction over any such dispute and the parties hereto waive any objections thereto including on grounds of lack of personal jurisdiction or forum non-conveniens. Notwithstanding the foregoing, (a) Telit may lodge a claim against the Customer pursuant to the indemnity clause above, in any court adjudicating a third party claim against Telit, and (b) nothing herein shall limit Telit's right to seek immediate temporary or emergency relief in any other court with competent jurisdiction.

18. Assignment. You may not assign these Terms without Telit's prior written consent. Any purported assignment without our prior written consent is void. To the greatest extent permissible by law, Telit may assign these Terms in their entirety, including all right, duties, liabilities, performances and obligations herein, upon notice to you and without obtaining your further specific consent, to a third-party. By virtue of such assignment, the assignee assumes our stead, including all right, duties, liabilities, performances and obligations hereunder, and we are released therefrom.

19. Relationship of the parties. The relationship between the parties hereto is strictly that of independent contractors, and neither party is an agent, partner, joint venturer or employee of the other.

20. Complete Terms and Severability. These Terms (together with any underlying Incorporating Agreement) constitute the entire and complete agreement between you and us concerning the subject matter herein and supersede all prior oral or written statements, understandings, negotiations and representations with respect to the subject matter herein. If any provision of these Terms is held invalid or unenforceable, that provision shall be construed in a manner consistent with the applicable law to reflect, as nearly as possible, the original intentions of the parties and the remaining provisions will remain in full force and effect. Telit may amend these Terms immediately by putting you on notice of such amendments, if new legislation, statutory instrument or other governmental regulation or the terms under which Telit provides the Service and/or accesses the Devices make such amendment necessary.

21. No waiver. Neither party will, by mere lapse of time, without giving express notice thereof, be deemed to have waived any breach, by the other party, of any terms or provisions herein. The waiver, by either party, of any such breach, will not be construed as a waiver of subsequent breaches or as a continuing waiver of such breach.

22. Rights of Third Parties. Except as otherwise expressly stated herein, nothing in these Terms confers any rights on any person other than you and Telit.

23. Incorporating Agreement. In the event of a contradiction or inconsistency between these Terms and an underlying Incorporating Agreement, the Incorporation Agreement shall govern, but only to the extent of such contradiction or inconsistency.

24. Interpretation. For the purposes of these Terms, the term "Telit" shall mean Telit IOT Platforms LLC and/or any of its subsidiaries or affiliates in the Telit corporate group.

Accept Decline



TELIT IoT PORTAL | Dashboards | Things | Connections | Developer | Help | TELIT IOT | deviceWISE

Home

Connected things

Connection health

API usage

Date	org	session	user	Total
Aug13	0	0	0	0
Aug17	0	0	0	0
Aug21	0	0	0	0
Aug25	0	0	0	0
Aug29	0	0	0	0
Sep02	0	0	0	0
Sep06	0	0	0	0
Sep10	0.5	0.5	0.5	1.5

Recently viewed dashboards

Name	Last viewed

Recently viewed things

Name	Last viewed

Recently viewed connections

ICCID / IMSI / MSISDN / MEID	Last viewed

Event log

Date	What	Message
Sep 12 13:41	Authentication	telitportal@gmail.com logged in from 185.86.40.1 via http.

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Возможности на Портале

1. Виджеты

- Визуализация данных

2. Устройства

- Визуализация «вещей»
- Asset Gateways, Enterprise Gateways
- Подробная история

3. Подключения

- Connected Device Platform (CDP)
- Управление SIM картами
- Визуализация данных и СМС трафик

4. Помощь

- Help.deviceWISE.com
- Открыть вопрос на портале

Основные определения

- «Вещи»
- Свойство «вещей»
- Приложение

Что такое «вещь»

- Подключенное устройство определяется как Свойство
- Устройство с программным ядром Telit IoT Portal
- Multitech Enterprise или Asset Gateway
- Датчики, подключенные к модулю Telit



Что такое свойство «вещей»?

- Характеристики подключенной «вещи»
- Состоят из
 - Атрибутов
 - Сигнализаций
 - Свойств
 - Методов
 - Туннелей



TELIT IoT PORTAL | Dashboards | Things | Connections | Developer | Help | TELIOT | deviceWISE

Endpoints

HTTP	http://api.devicewise.com/api
HTTPS	https://api.devicewise.com/api
MQTT	mqtt://api.devicewise.com:1883
MQTT SSL	mqtt+ssl://api.devicewise.com:8883
SMS receive	http://api.devicewise.com/sms/teliot

GENERAL

- Applications
- API log
- API tester
- Error codes
- Event log
- Files
- Method aliases
- Resources
- Triggers

THINGS

- Campaigns
- Gateway licenses
- Geofences
- Thing definitions
- Tunnels

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<https://portal.telit.com/thingDefs>





Browser window showing the Telit IoT Portal interface. The address bar displays <https://portal.telit.com/thingDefs>. The navigation bar includes 'Dashboards', 'Things', 'Connections', 'Developer', and 'Help'. The main header shows 'TELIT IoT PORTAL' and 'deviceWISE'. The breadcrumb trail is 'Developer > Thing definitions'. The main heading is 'Thing definitions'. There are three buttons: 'New thing definition', 'Export', and 'Import'. A table with one row is visible:

Key	Name
default	Default

At the bottom left is the Telit logo. At the bottom center is the copyright notice: '© 2016 Telit IoT Platforms, LLC. All rights reserved. 10.17.00 | Status website'. At the bottom right is the URL: <https://portal.telit.com/thingDefs/add>.



TELIT IOT PORTAL | Dashboards | Things | Connections | Developer | Help | TELITIOT | deviceWISE

Developer > Thing definitions > Adding thing definition

Adding thing definition

Standard | **Advanced**

Key*
iot_thing_definition

Name*
IOT Thing Definition

Auto def attributes
 Auto def properties

Attributes | Alarms | Properties | Methods | Tunnels | Locations | **Presentation**

Graph option: Small graphs
Graph type: Area-step
View option: Top tab display
Showhide unset alarms: Show
Showhide unset properties: Show

Series: History
Period: 24
Period unit: hours

Add | Cancel



TELIT **IoT** PORTAL | Dashboards | Things | Connections | Developer | Help | TELITIOT | deviceWISE

Developer > Thing definitions > IOT Thing Definition

Thing definition added.

IOT Thing Definition

Key	iot_thing_definition	Created by	telitportal@gmail.com
Auto def attributes	Yes	Created on	Sep 12, 2016 14:05:46
Auto def properties	Yes	Updated by	telitportal@gmail.com
View option	Top tab display	Updated on	Sep 12, 2016 14:05:46
Graph option	Small graphs		
Series	History		
Calculation	Not set		
Period	24 hours		

[Edit](#) [Delete](#)

Attributes

This thing definition has no attributes defined.

Alarms

This thing definition has no alarms defined.

Properties

This thing definition has no properties defined.

Methods

This thing definition has no methods defined.

Tunnels

This thing definition has no tunnels defined.

Locations









TELIT IoT PORTAL | Dashboards | Things | Connections | Developer | Help | TELIOT | deviceWISE

Developer > Thing definitions

Thing definitions

New thing definition | Export | Import

	Key	Name
  	default	Default
  	iot_thing_definition	IOT Thing Definition

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Что такое приложение?

- Используется для распределения прав контроля доступа
- Использование лицензий
- Token для аутентификации



Telit IoT PORTAL | Dashboards | Things | Connections | Developer | Help | TELIOT | deviceWISE

Endpoints

HTTP	http://api.devicewise.com/api
HTTPS	https://api.devicewise.com/api
MQTT	mqtt://api.devicewise.com:1883
MQTT SSL	mqtt+ssl://api.devicewise.com:8883
SMS receive	http://api.devicewise.com/sms/teliot

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Browser window showing the Telit IoT Portal Applications page. The URL is <https://portal.telit.com/applications>. The page title is "Applications".

Navigation menu: TELIT IOT PORTAL | Dashboards | Things | Connections | Developer | Help | TELITIOT | deviceWISE

Breadcrumbs: Developer > Applications

Applications

[New Application](#)

	Name	Token
  	Default Application	CU01axYeRnsPLv3

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<https://portal.telit.com/applications/add>





Browser address bar: <https://portal.telit.com/applications/add>

Navigation: TELIT IOT PORTAL | Dashboards | Things | Connections | Developer | Help | TELIT IOT | deviceWISE

Breadcrumbs: Developer > Applications > Adding application

Adding application

Name*
IOT Application

Description
[Empty text box]

Auto Registration Thing Definition ID*
IOT Thing Definition

Auto Registration Tags
+ [Redacted]

Auto Registration Security Tags
+ [Redacted]

Org Admin

License
Choose license

Buttons: Add | Cancel

Footer: © 2016 Telit IoT Platforms, LLC. All rights reserved. 10.17.00 | Status website







TELIT IoT PORTAL | Dashboards | Things | Connections | Developer | Help | TELIOT | deviceWISE

Developer > Applications

Applications

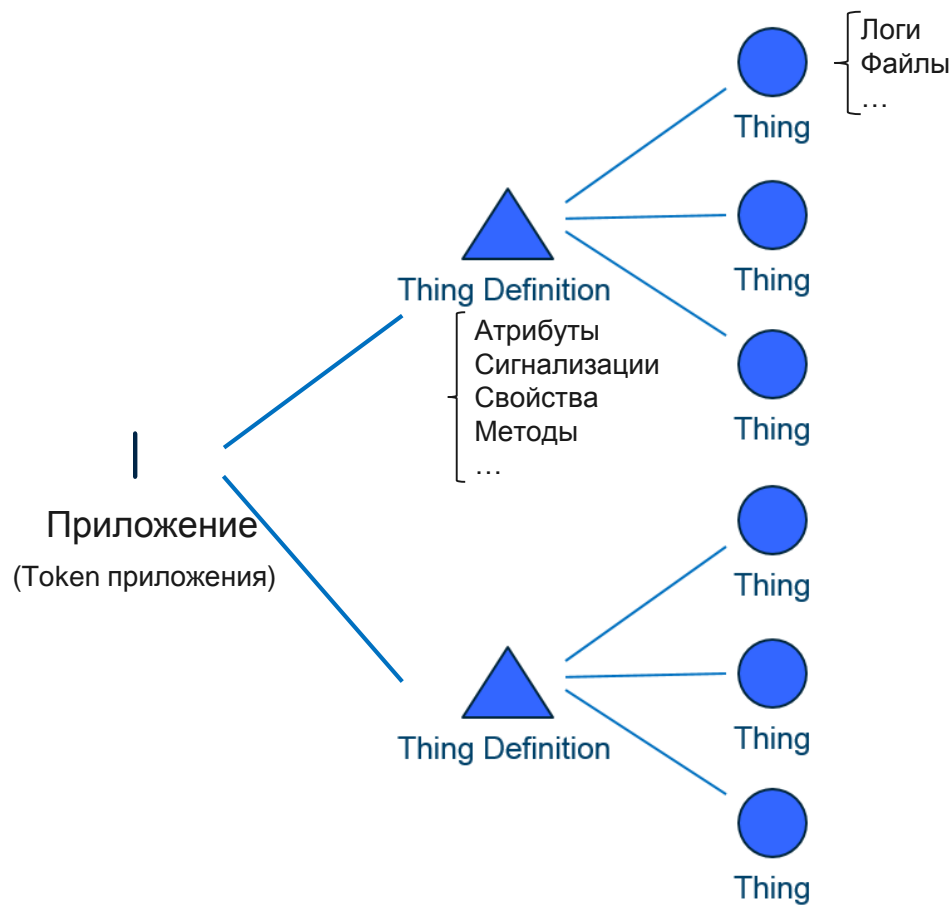
New Application

	Name	Token
 	Default Application	CU01axYeRnsPLM3
 	IOT Application	5yTC5X23lnzWYzdg

Ваш защитный Token

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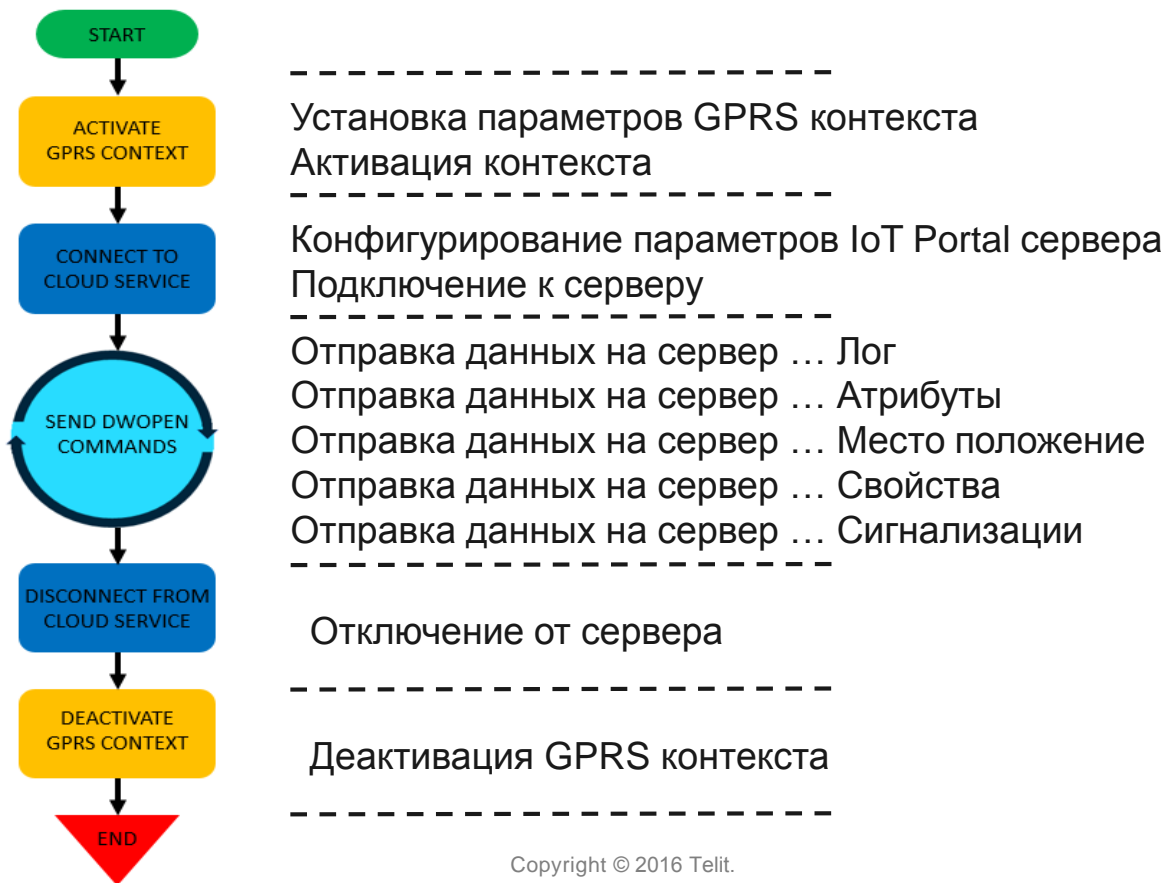
Структура



Подключение к Порталу

- Используя АТ команды, встроенные в облачный агент
- Используя AppZone приложение

Использование AT команд



Подключение модуля Telit к порталу

Подключение модуля к сети Интернет

AT+CGDCONT=1,"IP","**internetm2m.air.com**"

AT#SGACT=1,1

Подключение модуля к облачному серверу

AT#DWCFG=open-api.deviceWISE.com,0,<**Insert Token**>

AT#DWEN=0,1 – Активация удаленной отправки AT команд

AT#DWEN=1,1 – Активация местоположения

AT#DWCONN=1

Отправка данных на облачный сервер

AT#DWSSEND=0,**property**.publish,**key**,**temperature**,**value**,**23.4**

AT#DWSSEND=0,**location**.publish,**lat**,**26.394919**,**lng**,**-80.112808**,**heading**,**18.8**,**altitude**,**11.4**,**speed**,**0.0**,**fixType**,**gps**

AT#DWSSEND=0,**log**.publish,**msg**,**"I Can Send a Message"**

AT#DWSSEND=0,**alarm**.publish,**key**,**alarm1**,**state**,**1**,**msg**,**"Alarm1 - Red Alert Activated"**

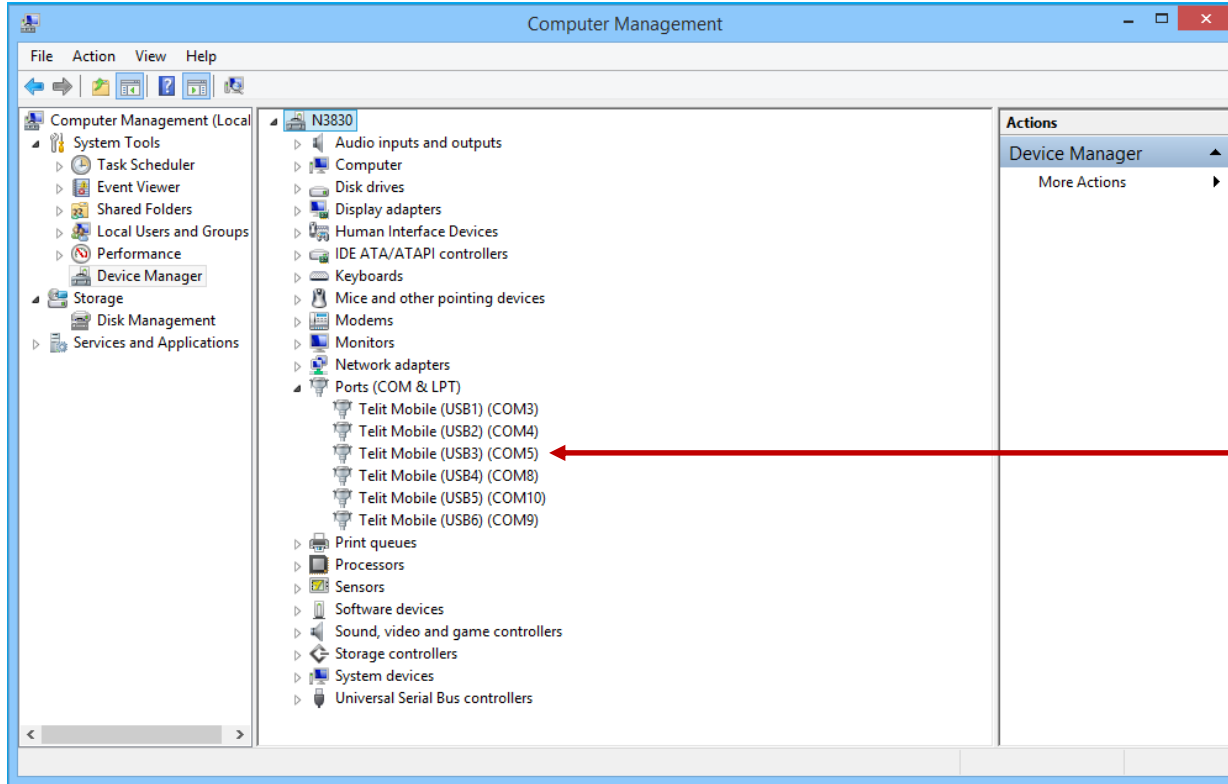
AT#DWSSEND=0,thing.**attr**.set,**key**,**serialnumber**,**value**,**0123456789**

Отключение модуля от сервера и сети Интернет

AT#DWCONN=0

AT#SGACT=1,0

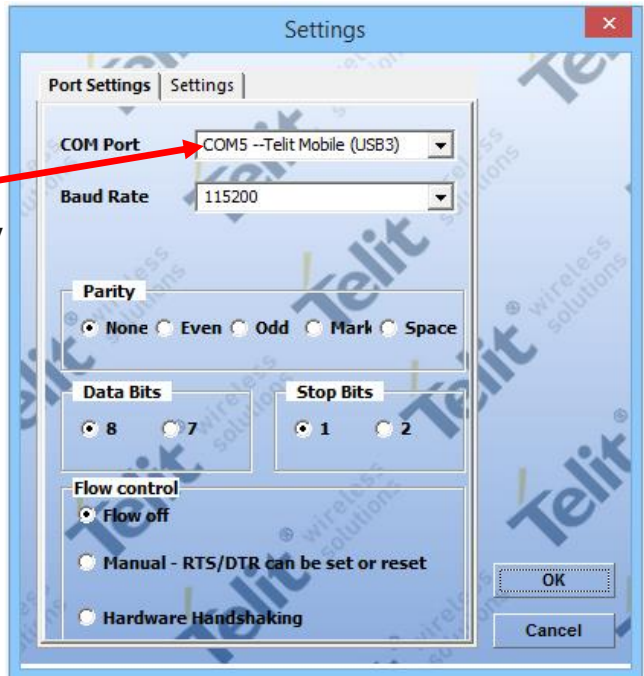




} AT Command Capable

TATC шаг 1: настройка

Панель настроек

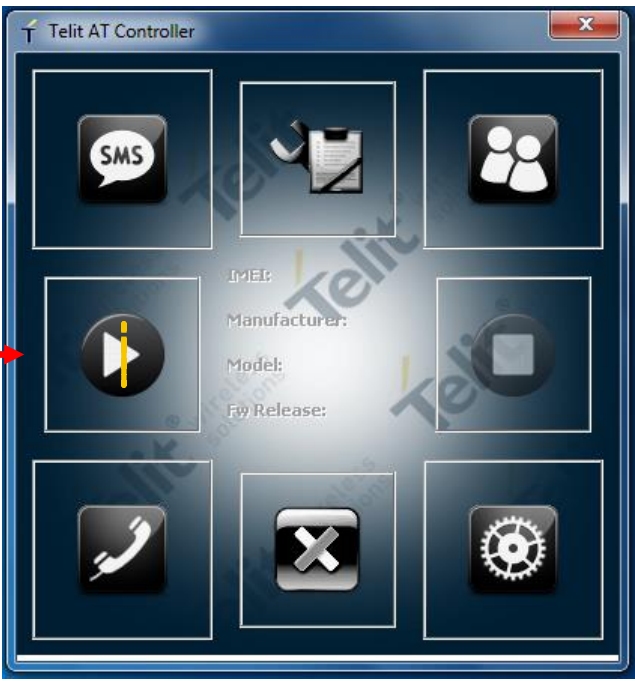


Введите Ваш COM порт,
Соответствующий AT порту



TATC шаг 2: подключение

Нажмите для подключения к модулю



TATC шаг 3: Открыть AT терминал



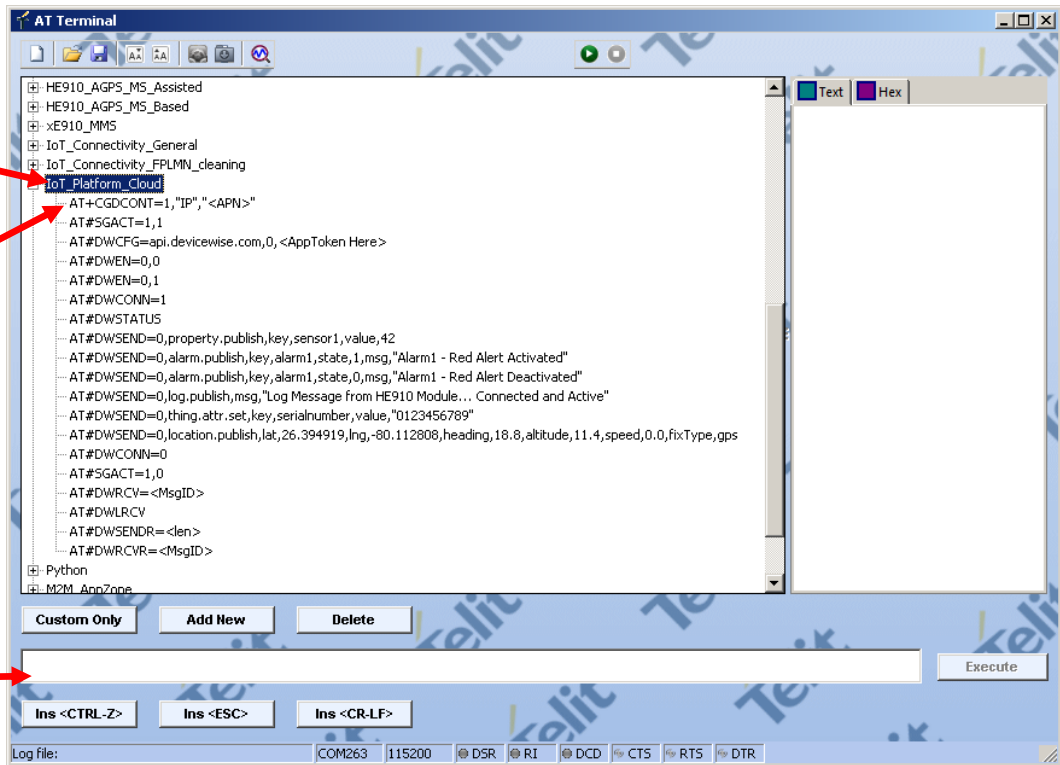
Нажмите тут, чтобы открыть
AT терминал

TATC шаг 4: использование AT терминала

IoT Cloud меню

Двойное нажатие для открытия

Изменения команды Производится тут



TATC шаг 4: использование AT терминала

The screenshot displays the AT Terminal application window. The left pane shows a tree view of configuration categories, with 'IoT_Platform_Cloud' expanded to show various AT commands. The 'AT#DWCONN=1' command is highlighted in blue. The right pane shows the execution log, which includes the following text:

```
OK
AT+CGMI
Telit
OK
AT+CGMM
UE910-EUR
OK
AT+CGMR
12.00.407-8018
OK
AT#DWCONN?
#DWCONN: 0,0
OK
AT+CGDCONT=1,"IP","internetm2m.air.com"
OK
AT#SGACT=1,1
#SGACT: 100.98.32.112
OK
AT#DWCFG=api.devicewise.com,0,5yTC5X23InzWYZc
OK
AT#DWEN=0,0
OK
AT#DWEN=0,1
OK
```

At the bottom of the window, there is a text input field containing 'AT#DWCONN=1' and an 'Execute' button. Below the input field are three keyboard shortcuts: 'Ins <CTRL-Z>', 'Ins <ESC>', and 'Ins <CR-LF>'. The status bar at the very bottom shows 'Log file: COM263 115200' and several status icons (DSR, RI, DCD, CTS, RTS, DTR).



TELIT IoT PORTAL | Dashboards | Things | Connections | Developer | Help | TELIOT | deviceWISE

Things

connected defkey

Search things...

Dashboard | Table | Map

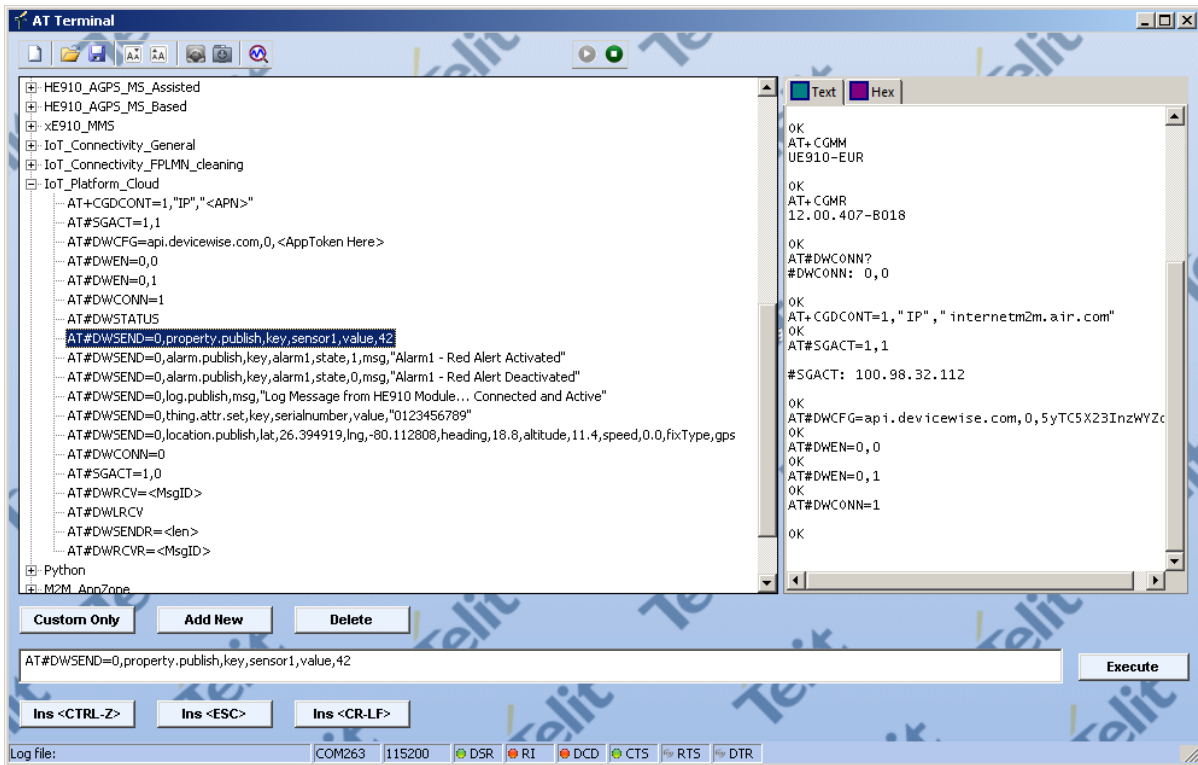
50 1 things found.

	Name	Key	Def name	Last seen	Actions
	auto:354550050001607	354550050001607	IOT Thing Definition	5 seconds ago	Download CSV

50

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TATC шаг 4: использование AT терминала





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Things > auto:354550050001607

auto:354550050001607

Overview | **Details** | Attributes | Remote AT | Events | Files | Actions

Thing definition IOT Thing Definition [✎](#) [📄](#)
Key 354550050001607
Last seen [🟢](#) 5 seconds ago [✖](#)
Tags
Security Tags
Location Unknown [📍](#)
Identity [🔒](#) Locked [🔗](#)
Storage 0 Bytes
Api counts - month to date 0

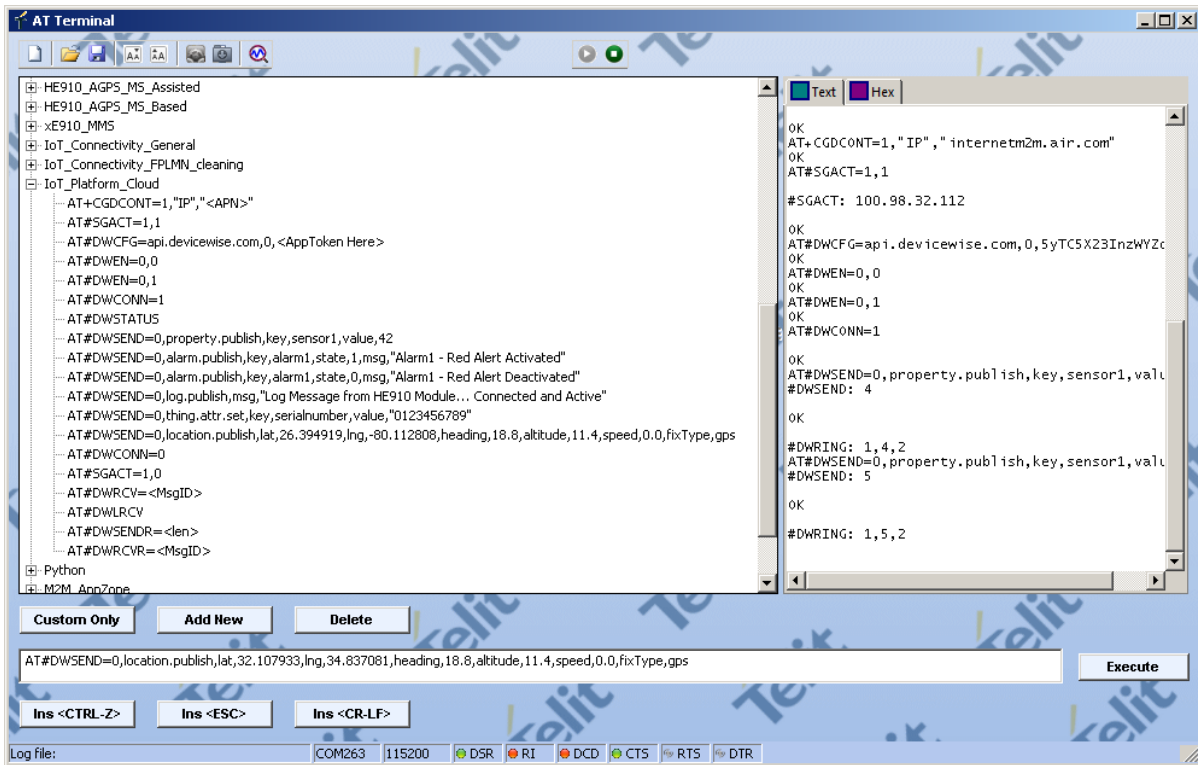
Properties

auto:sensor1 42

Time	Value
Sep12 15:23:30 - Sep12 15:24:27	42

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TATC шаг 4: использование AT терминала



The screenshot displays the AT Terminal application window. On the left, a tree view shows the configuration structure for the AT module, including sections for HE910_AGPS, IoT_Connectivity, and IoT_Platform_Cloud. The IoT_Platform_Cloud section is expanded, showing various AT commands and their values, such as AT+CGDCONT, AT#SGACT, AT#DWCFCG, AT#DWEN, AT#DWCONN, AT#DWSTATUS, AT#DWSEND, AT#DWCVR, and AT#DWRVCV. Below the tree view are buttons for 'Custom Only', 'Add New', and 'Delete'. A text input field at the bottom contains the command 'AT#DWSEND=0,location.publish,lat,32.107933,lng,34.837081,heading,18.8,altitude,11.4,speed,0.0,fixType,gps', with an 'Execute' button to its right. Below the input field are three buttons for keyboard shortcuts: 'Ins <CTRL-Z>', 'Ins <ESC>', and 'Ins <CR-LF>'. At the bottom of the window, the 'Log file:' section shows 'COM263 | 115200' and several status icons (DSR, RI, DCD, CTS, RTS, DTR). On the right side of the window, a terminal window is open, displaying the output of the executed AT command. The output shows 'OK' responses and the execution of AT+CGDCONT, AT#SGACT, AT#DWCFCG, AT#DWEN, AT#DWCONN, AT#DWSEND, and AT#DWRING commands, with their respective responses and status indicators.

```
AT Terminal
[+] HE910_AGPS_MS_Assisted
[+] HE910_AGPS_MS_Based
[+] xE910_MMS
[+] IoT_Connectivity_General
[+] IoT_Connectivity_FPLMN_cleaning
[-] IoT_Platform_Cloud
  - AT+CGDCONT=1,"IP","<APN>"
  - AT#SGACT=1,1
  - AT#DWCFCG=api.devicewise.com,0,<AppToken Here>
  - AT#DWEN=0,0
  - AT#DWEN=0,1
  - AT#DWCONN=1
  - AT#DWSTATUS
  - AT#DWSEND=0,property.publish,key,sensor1,value,42
  - AT#DWSEND=0,alarm.publish,key,alarm1,state,1,msg,"Alarm1 - Red Alert Activated"
  - AT#DWSEND=0,alarm.publish,key,alarm1,state,0,msg,"Alarm1 - Red Alert Deactivated"
  - AT#DWSEND=0,log.publish,msg,"Log Message from HE910 Module... Connected and Active"
  - AT#DWSEND=0,thing.attr.set,key,serialnumber,value,"0123456789"
  - AT#DWSEND=0,location.publish,lat,26.394919,lng,-80.112808,heading,18.8,altitude,11.4,speed,0.0,fixType,gps
  - AT#DWCONN=0
  - AT#SGACT=1,0
  - AT#DWRVCV=<MsgID>
  - AT#DWLRCV
  - AT#DWSEND=0,<len>
  - AT#DWRVCV=<MsgID>
[+] Python
[+] M2M_AppZone

Custom Only Add New Delete

AT#DWSEND=0,location.publish,lat,32.107933,lng,34.837081,heading,18.8,altitude,11.4,speed,0.0,fixType,gps Execute

Ins <CTRL-Z> Ins <ESC> Ins <CR-LF>

Log file: COM263 | 115200 [DSR] [RI] [DCD] [CTS] [RTS] [DTR]
```

```
Text Hex
OK
AT+CGDCONT=1,"IP","internetm2m.air.com"
OK
AT#SGACT=1,1
#SGACT: 100.98.32.112
OK
AT#DWCFCG=api.devicewise.com,0,5yTC5X23InzWYzC
OK
AT#DWEN=0,0
OK
AT#DWEN=0,1
OK
AT#DWCONN=1
OK
AT#DWSEND=0,property.publish,key,sensor1,value,42
#DWSEND: 4
OK
#DWRING: 1,4,2
AT#DWSEND=0,property.publish,key,sensor1,value,42
#DWSEND: 5
OK
#DWRING: 1,5,2
```




TELIT IoT PORTAL | Dashboards | Things | Connections | Developer | Help | TELITIOT | deviceWISE

Things > auto:354550050001607

auto:354550050001607

Overview | **Details** | Attributes | Remote AT | Events | Files | Actions

Thing definition IOT Thing Definition [✎](#) [📄](#)

Key 354550050001607

Last seen ✔ 5 seconds ago ✖

Tags

Security Tags

Location HaBarzel
Tel Aviv-Yafo, Tel Aviv District 4704356 L [\(History\)](#) [📍](#)

Identity 🔒 Locked [🔗](#)

Storage 0 Bytes

Api counts - month to date 0

Properties

auto:sensor1 42

Time	Value
Sep12 15:23:30 - Sep12 15:24:27	42

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Browser window showing a Telit IoT Portal page for device ID auto:354550050001607. The page title is "Location of auto:354550050001607". The main content area displays a map of the HaBarzel area in Tel Aviv, Israel, with a blue location pin. The map shows streets like YISGAV, HaBarzel, and EVER HAYARKON INDUSTRIAL AREA. Below the map, the following information is displayed:

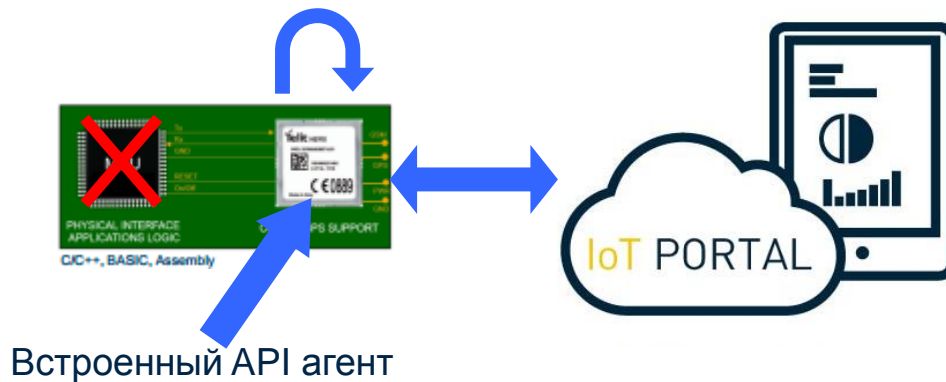
Address: HaBarzel Tel Aviv-Yafo, Tel Aviv District 4704356 IL
Latitude: 32.107933 **Longitude:** 34.837081 **Heading:** 18.8 **Altitude:** 11.4 **Fix type:** gps

Last reported on Sep 12, 2016 15:27:36

The background page shows a sidebar with navigation options like Overview, Details, Attributes, History, and Events. The main content area also includes sections for Thing definition, Key, Last seen, Tags, Security Tags, Location, Identity, Storage, and Api counts.

Telit IoT Portal с использованием AppZone

M2M AT команды чере AppZone



AppZone Cloud API

- **m2m_cloud_config(...)**
- **m2m_cloud_remoteAT(...)**

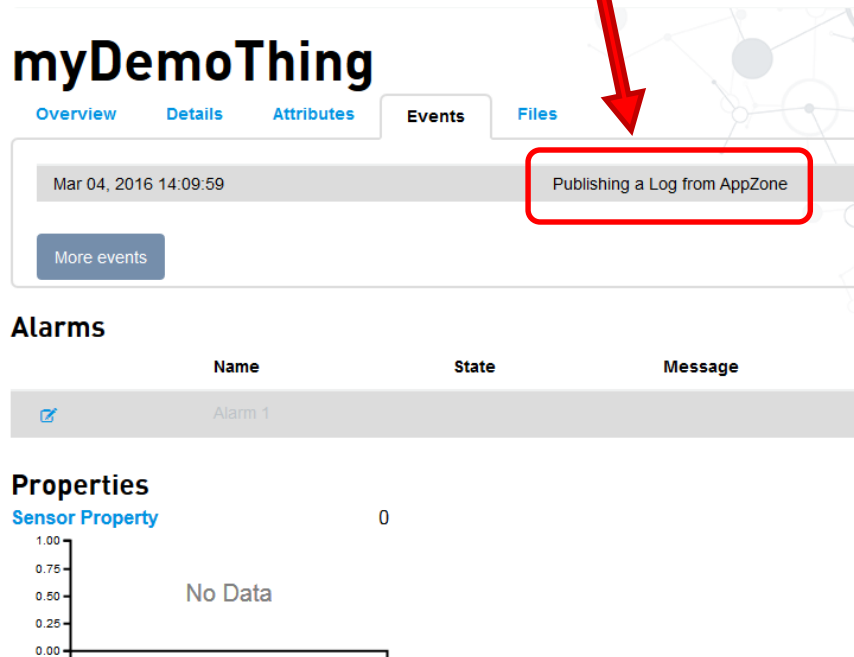
- **m2m_cloud_connect (...)**
- **m2m_cloud_status()**

- **m2m_cloud_property_publish(...)**
- **m2m_cloud_alarm_publish(...)**
- **m2m_cloud_log_publish(...)**
- **m2m_cloud_location_publish(...)**

- **m2m_cloud_method_handler(...)**
 - ↳ *user_Custom_MethodCallback1(...)*
 - user_Custom_MethodCallback2(...)*
 -

Отправка Лога

`m2m_cloud_log_publish ("Publishing a Log from AppZone", 0, M2M_FALSE, 0, 0, M2M_TRUE);`



The screenshot displays the 'myDemoThing' interface with several sections:

- myDemoThing**: The main title of the device page.
- Navigation Tabs**: Overview, Details, Attributes, Events, and Files. A red arrow points to the 'Files' tab.
- Events**: A list of events. One event is shown: 'Mar 04, 2016 14:09:59' with the message 'Publishing a Log from AppZone'. This message is highlighted with a red box.
- Alarms**: A section with a table containing one alarm: 'Alarm 1'.
- Properties**: A section showing a 'Sensor Property' with a value of '0'. Below it is a line graph with a y-axis from 0.00 to 1.00 and the text 'No Data'.

Отправка статуса сигнализации

```
m2m_cloud_alarm_publish("alarm1",1,"Something went wrong!", 0, 0, 0, 0, M2M_TRUE,  
M2M_TRUE);
```

myDemoThing

Overview Details Attributes Events Files

Mar 04, 2016 14:09:59 Publishing a Log from AppZone

More events

Alarms

Name	State	Message
Alarm 1	RED ALERT!	Something went wrong!

Properties

Sensor Property 0

No Data

Отправка свойства

```
m2m_cloud_property_publish("sensor_property","35", 0, 0, M2M_TRUE);
```

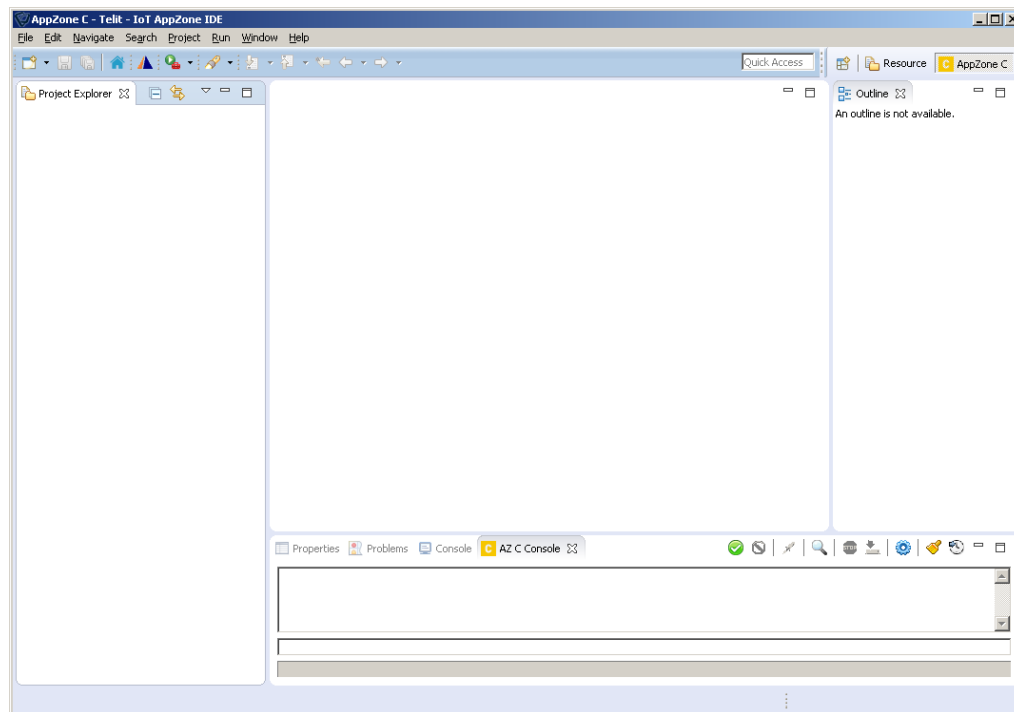
The screenshot displays the 'myDemoThing' interface with several sections:

- Events:** A log entry for 'Publishing a Log from AppZone' on Mar 04, 2016 at 14:09:59.
- Alarms:** A table with columns 'Name', 'State', and 'Message'. It shows 'Alarm 1' with a 'RED ALERT!' state and the message 'Something went wrong!'.
- Properties:** A section titled 'Sensor Property' with a value of '35' circled in blue. Below it is a graph with a y-axis at 0.00 and an x-axis labeled 'Mar04 14:14:12'.

A blue arrow points from the code snippet above to the '35' value in the Properties section.

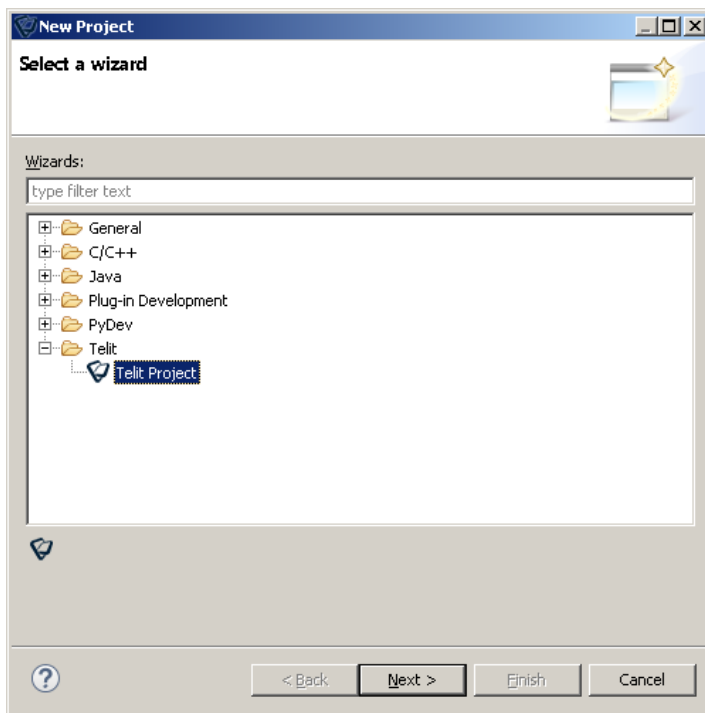
Создание AppZone приложения

Создание приложения для подключения устройства к облаку Telit используя AppZone C



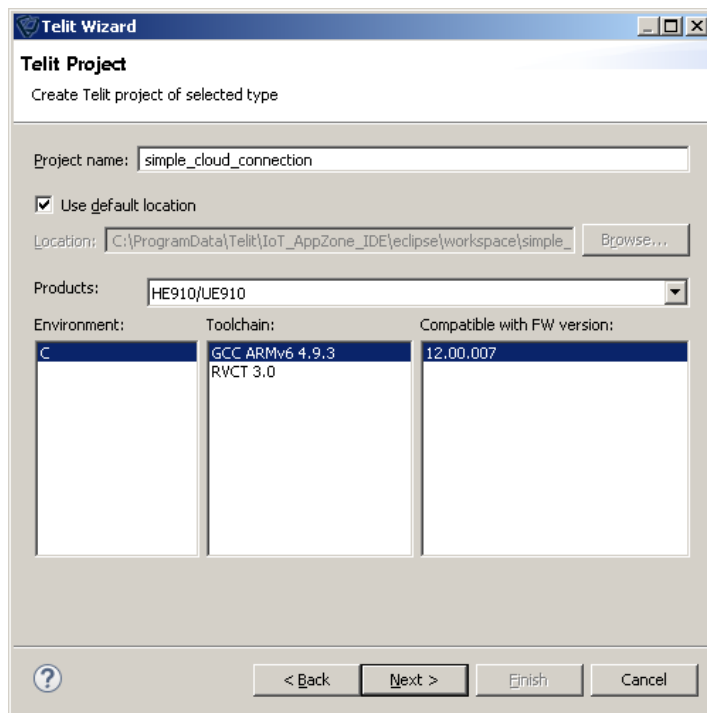
Создание AppZone приложения

Создание нового проекта



Создание AppZone приложения

Установка свойств проекта



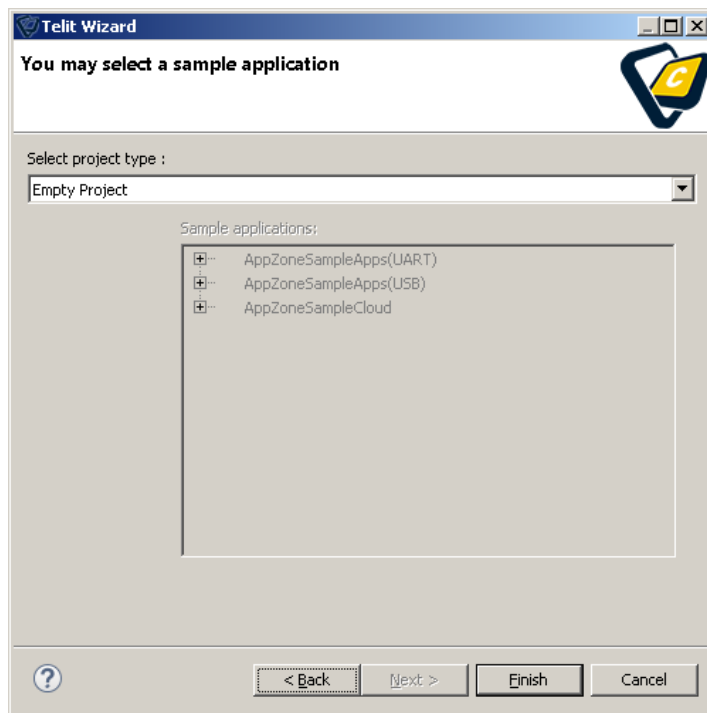
The screenshot shows the 'Telit Wizard' dialog box with the following configuration:

- Project name:** simple_cloud_connection
- Use default location
- Location:** C:\ProgramData\Telit\IoT_AppZone_IDE\eclipse\workspace\simple_ (with a 'Browse...' button)
- Products:** HE910/UE910
- Environment:** C
- Toolchain:** GCC ARMv6 4.9.3, RWCT 3.0
- Compatible with FW version:** 12.00.007

At the bottom, there are navigation buttons: '< Back', 'Next >', 'Finish', and 'Cancel', along with a help icon (?) on the left.

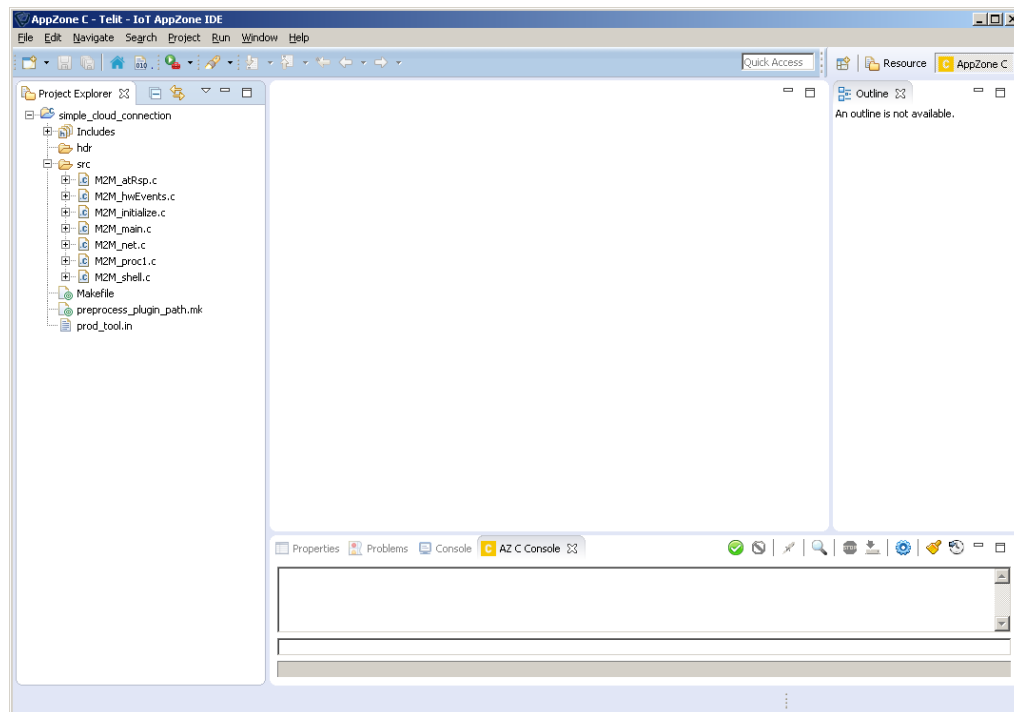
Создание AppZone приложения

Создание нового пустого проекта



Создание AppZone приложения

Пустой проект создан



Создание AppZone приложения

В M2M_main.c

```
/* =====  
 *  
 * DESCRIPTION:   M2M_main(...) is the main function and is the M2M application entry point.  
 *               This is the first function called by the control to start M2M application, you should write your code here.  
 *               Best practice would be to do the required initialization for the M2M application, and send messages  
 *               to other tasks.  
 *  
 *  
 * PARAMETERS:   The values arguments are read from the m2m_config file. The values arguments can be modified by the user  
 *               via the dedicated API.  
 *  
 * RETURNS:      None.  
 *  
 * PRE-CONDITIONS: None.  
 *  
 * POST-CONDITIONS: None.  
 *  
 *  
 * IMPORTANT NOTES: DO NOT BLOCK THIS FUNCTION: send messages to other M2M application tasks and return.  
 *                  This function runs on the modem task and hence must not run any complex/heavy code.  
 *  
 * ===== */  
  
void M2M_main ( INT32 argc, CHAR argv[M2M_ARGC_MAX][M2M_ARGV_MAXTOKEN + 1] )  
{  
    // Add a few seconds delay to give the module time to register to cellular network  
    m2m_os_sleep_ms(10000);  
    // Links AT application logPort and AT command parser instance  
    m2m_os_iat_set_at_command_instance(1,1);  
    // Go to process 1 where the main code is handled  
    m2m_os_send_message_to_task (1, 0, 0, 0);  
}
```

Создание AppZone приложения

В M2M_proc1.c

```
/*=====
                                GLOBAL FUNCTIONS IMPLEMENTATION
=====*/

/* =====
*
* DESCRIPTION:      Handles events sent to process 1
*
* PARAMETERS:      type:  event id
*                  param1: addition info
*                  param2: addition info
*
* RETURNS:         None.
*
* PRE-CONDITIONS:  None.
*
* POST-CONDITIONS: None.
*
* IMPORTANT NOTES: This process has the highest priority.
*                  Running complex code here will block other events coming to this task.
* ===== */

INT32 M2M_msgProc1(INT32 type, INT32 param1, INT32 param2)
{
    // Activate PDP context and get IP
    get_IP();
    // Connect to the cloud
    connectToCloud();

    return 0;
}
```

Создание AppZone приложения

В M2M_proc1.c

```
void get_IP(void)
{
    // Set the Telit Connectivity SIM card APN
    m2m_os_ia_send_at_command("AT+CGDCONT=1,\"IP\", \"internetm2m.air.com\\r\", 1);

    m2m_os_sleep_ms(1000);

    // Activate PDP context in order to get IP
    m2m_os_ia_send_at_command("AT#SGACT=1,1\\r", 1);

    // Add 5 seconds delay in order to wait for the IP to be received
    m2m_os_sleep_ms(5000);
}
```

Создание AppZone приложения

В M2M_proc1.c

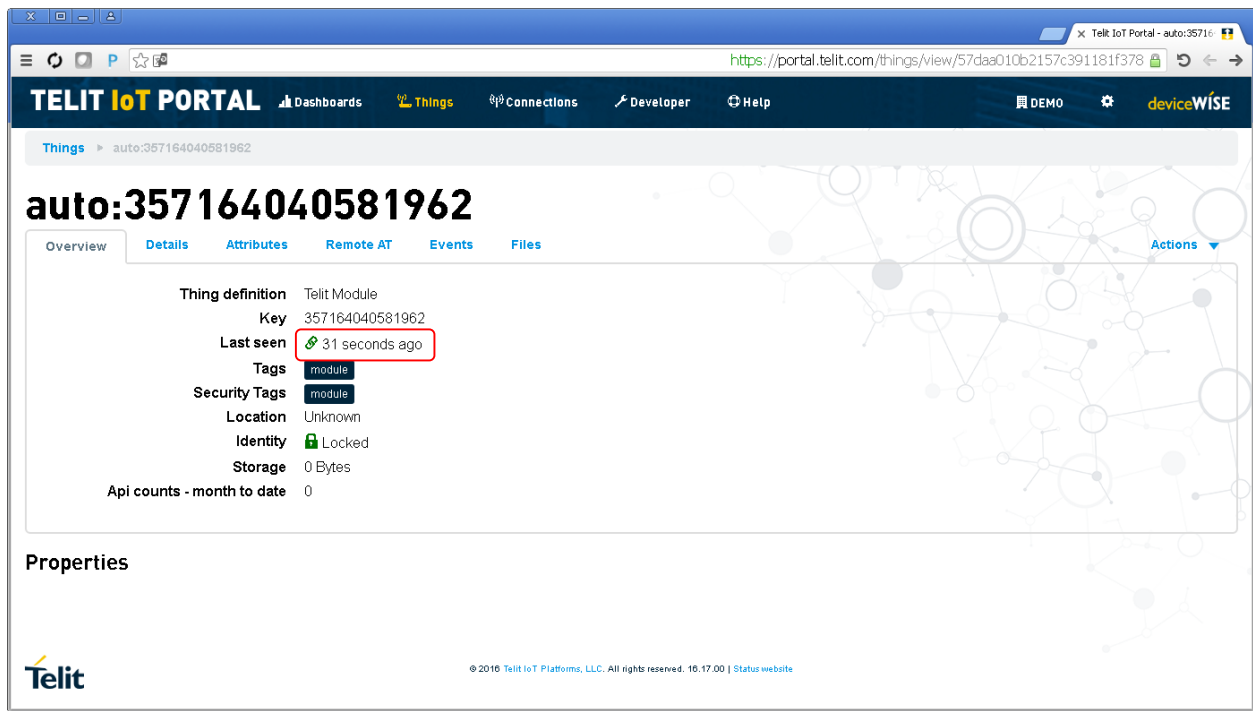
```
void connectToCloud()
{
    // Set the server name of the cloud and your application token
    m2m_os_iaat_send_at_command("AT#DWCFG=open-api.devicewise.com,0,83rSt7BSBDAYSmTa\r", 1);

    m2m_os_sleep_ms(1000);

    // Connect to the cloud
    m2m_os_iaat_send_at_command("AT#DWCONN=1\r", 1);
}
```


Создание AppZone приложения

Устройство подключено к облаку



The screenshot displays the Telit IoT Portal interface. The browser address bar shows the URL <https://portal.telit.com/things/view/57daa010b2157c391181f378>. The page title is "TELIT IoT PORTAL" with navigation links for Dashboards, Things, Connections, Developer, and Help. The main content area shows the device ID "auto:357164040581962" and a navigation menu with tabs for Overview, Details, Attributes, Remote AT, Events, and Files. The "Details" tab is active, displaying the following information:

- Thing definition: Telit Module
- Key: 357164040581962
- Last seen: 📶 31 seconds ago
- Tags: module
- Security Tags: module
- Location: Unknown
- Identity: 🔒 Locked
- Storage: 0 Bytes
- Api counts - month to date: 0

Below the details is a "Properties" section. The Telit logo is visible in the bottom left corner, and the footer contains the text "© 2016 Telit IoT Platforms, LLC. All rights reserved. 16.17.00 | Status website".

A dark blue banner with a night satellite view of Earth. Overlaid are white icons: a car, a factory, a radio tower, a cloud with a network diagram, and a shield with a lock. Lines connect these icons across the globe.

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END-TO-END IOT SOLUTIONS**
MODULES. CONNECTIVITY. PLATFORMS.

Спасибо!



IoT MODULES



IoT CONNECTIVITY



IoT PLATFORMS