

# Geneva版本里的 EdgeX UI改进

改善用户体验，新增AppServices功能

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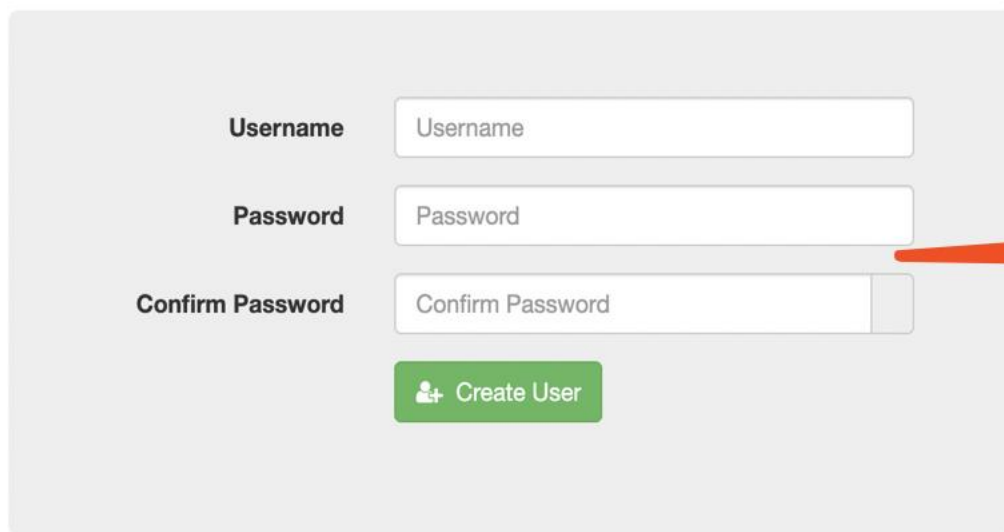
<https://github.com/edgexfoundry/edgex-ui-go>

# Agenda

- ◆ 改善用户体验，对部分页面进行重新设计，添加了默认参数，将大量用户输入变为从已有列表选择。
- ◆ 新增App Service管理界面，可方便用户管理Edgex中多个App Services，以满足用户需求。

# 新增创建登陆用户

首次登录UI，创建用户




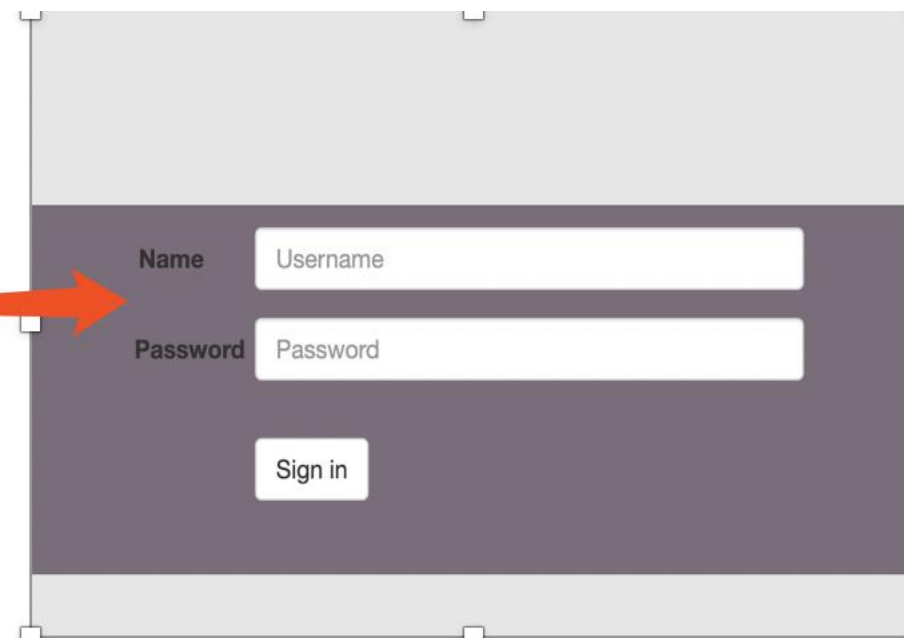
A light gray rectangular form for creating a new user. It contains three input fields: 'Username', 'Password', and 'Confirm Password'. Below the 'Confirm Password' field is a green button with a white user icon and the text 'Create User'.

Username

Password

Confirm Password

 Create User



A dark gray rectangular form for logging in. It contains two input fields: 'Name' (containing 'Username') and 'Password'. Below these fields is a white button with the text 'Sign in'. An orange arrow points from the 'Create User' button of the first form to the 'Name' input field of this form.

Name

Password

Sign in

# 服务连接检测

EdgeX Foundry Console

Gateway

DeviceService

Scheduler

Notification

Multimedia

Export

RuleEngine

AppServices

Gateway

+ Add

Delete

Refresh

#	ID	Gateway Name	Health	Description	Address	Created Time
1	5e95603c421aa91f13b0e48c	gateway1	✓	test	192.168.1.101	2020-04-14 15:03:24
2	5e956047421aa91f13b0e48d	gateway2	✗	test	192.168.1.102	2020-04-14 15:03:35

上图为全部连接正常；

EdgeX Foundry Console

Gateway

DeviceService

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+ Add

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#	ID	Gateway Name	Health	Description	Address	Created Time
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下图为 DeviceService 连接不正常；

# DeviceService Page

EdgeX Foundry Console

Gateway

DeviceService

Scheduler

Notification

Multimedia

Export

RuleEngine

AppServices

Add or Update Device

✓ ✕

DeviceService

Name

device-virtual

Device

ID

d64cda0f-975b-4eb8-930c-

Name

Random-Boolean-Device

Description

Example of Device Virtual

Labels

device-virtual-example

AdminState

UNLOCKED

OperatingState

ENABLED

DeviceProfileName

DeviceProfile

Random-Boolean-Device

DeviceAddressable

others

+ Address

device-virtual-bool-01

-

Port

300

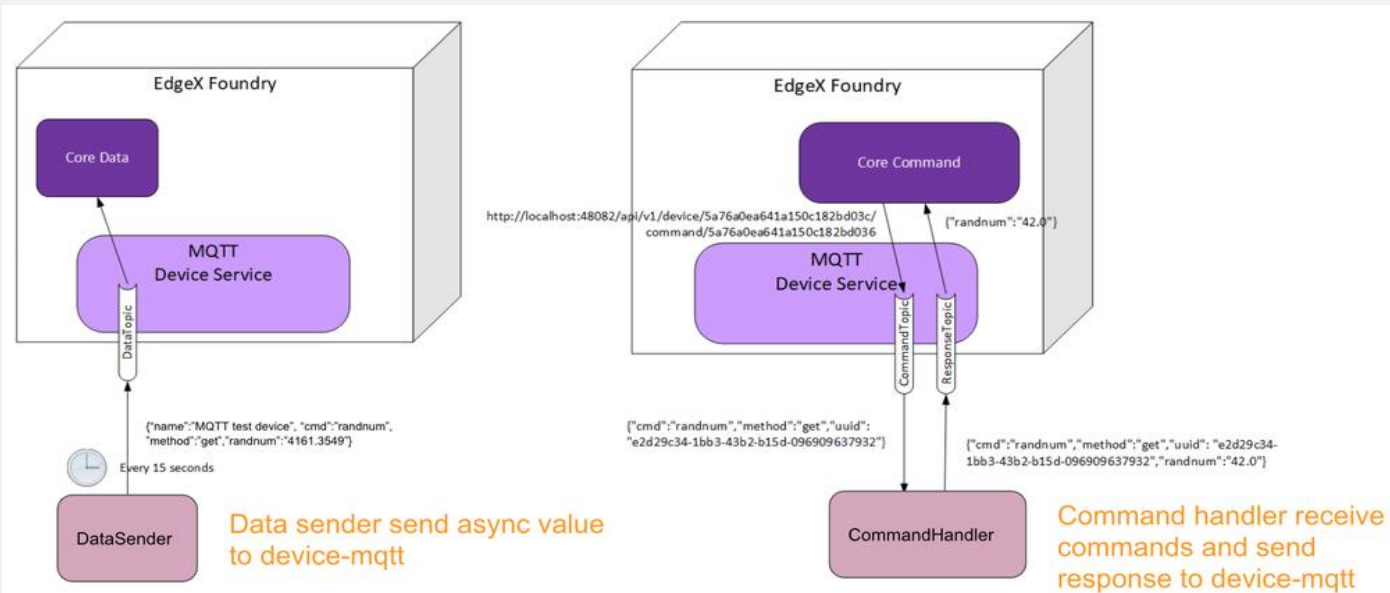
-

- 将旧版输入框为主的设计，改为下拉列表，改用户输入为选择输入。
- 对 DeviceAddressable 增加了常用的配置类型和默认参数设置。

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# DeviceService Page

## PULL/PUSH



```
function getRandomFloat(min, max) {
    return Math.random() * (max - min) + min;
}

const deviceName = "MQ_DEVICE";
let message = "test-message";

// 1. Publish random number every 15 seconds
schedule('*/*15 * * * *', ()=>{
    let body = {
        "name": deviceName,
        "cmd": "randfloat32",
        "randfloat32": getRandomFloat(25,29).toFixed(1)
    };
    publish( 'DataTopic', JSON.stringify(body));
});

// 2. Receive the reading request, then return the response
// 3. Receive the put request, then change the device value
subscribe( "CommandTopic" , (topic, val) => {
    var data = val;
    if (data.method == "set") {
        message = data[data.cmd]
    }else{
        switch(data.cmd) {
            case "ping":
                data.ping = "pong";
                break;
            case "message":
                data.message = message;
                break;
            case "randfloat32":
                data.randfloat32 = getRandomFloat(25,29).toFixed(1);
                break;
            case "randfloat64":
                data.randfloat64 = getRandomFloat(10,1).toFixed(5);
                break;
        }
    }
    publish( "ResponseTopic", JSON.stringify(data));
});
```

# Scheduler Page

## Interval

EdgeX Foundry Console

Gateway DeviceService Scheduler

Interval

+ ↺

#	ID
1	d1bc76c4-180e-4c8a-b435-...

IntervalAction

+ ↺

#	ID
1	fe8d12b2-1f77-4195-bf6a-...
2	c704fcd4-39c6-4332-922c-...

Add or Update Interval

✓ ✕

Interval

Name

StartTime

EndTime

RunOnce ☒ false ☐ true

Frequency

Cron

Created Time	Modified Time
2020-04-13 10:53:29	2020-04-13 10:53:29

Created Time	Modified Time
2020-04-13 10:53:29	2020-04-13 10:53:29
2020-04-13 10:53:29	2020-04-13 10:53:29

- StartTime和EndTime 改为时间框
- RunOnce 表示只执行一次，如果选择True，Frequency和Cron选项将不可见；否则，可以在Frequency和Cron中二选一

# Scheduler Page

## Interval Action

Gateway

DeviceService

Scheduler

Notification

Multimedia

Export

RuleEngine

AppServices

Add or Update IntervalAction

✓ ✕

IntervalAction

Name

IntervalActionName

Interval

midnight

Target

core-command

TargetAction

Random-Boolean-Device Bool(get)

Random-Boolean-Device Bool(set)

Random-Integer-Device Int8(get)

Random-Integer-Device Int8(set)

Random-Integer-Device Int16(get)

Random-Integer-Device Int16(set)

Random-Integer-Device Int32(get)

Random-Integer-Device Int32(set)

Random-Integer-Device Int64(get)

Random-Integer-Device Int64(set)

Random-UnsignedInteger-Device UInt8(get)

Random-UnsignedInteger-Device UInt8(set)

Random-UnsignedInteger-Device UInt16(get)

Random-UnsignedInteger-Device UInt16(set)

Random-UnsignedInteger-Device UInt32(get)

Random-UnsignedInteger-Device UInt32(set)

Random-UnsignedInteger-Device UInt64(get)

Random-UnsignedInteger-Device UInt64(set)

Random-Float-Device Float32(get)

Random-Float-Device Float32(set)

TargetC

Protocol

Method

Address

Port

Path

Enabled

☐

Enabled

☐

Enabled

☐

Enabled

☐

- 将已注册的所有device的Command列出来，可以配合Interval定时给设备发送命令。
- 列出选中的Device Comand的默认参数，用户可以选择性修改



# Notification Page

Gateway

DeviceService

Scheduler

Notification

Multimedia

Export

RuleEngine

AppServices

Update or Add Subscription

✓

✕

Subscription

Slug

client-subscription-1586854755703

Name

subscriptionName

Description

subscriptionDescription

Labels

metadata

Categories

SECURITY

Channels

+

Type	Email	Url	Actions
EMAIL	test@test.com		<div><div></div><div></div></div>
REST		http://yourcallback	<div><div></div><div></div></div>

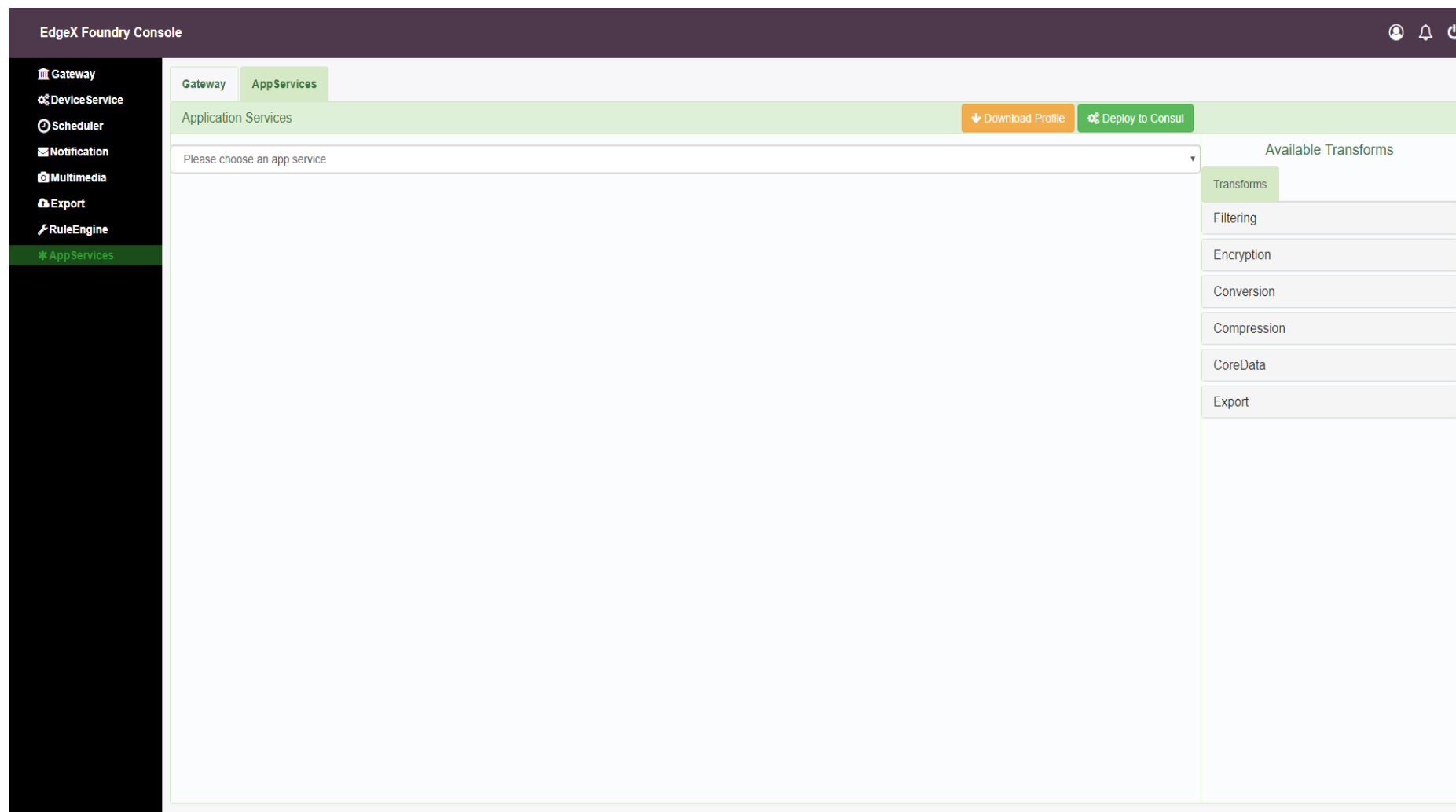
- Channel为订阅Edgex事件的接收方式，有两种类型，EMAIL和REST

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# 增加App Services管理页面

为方便用户管理edgex的application services，特添加此页面

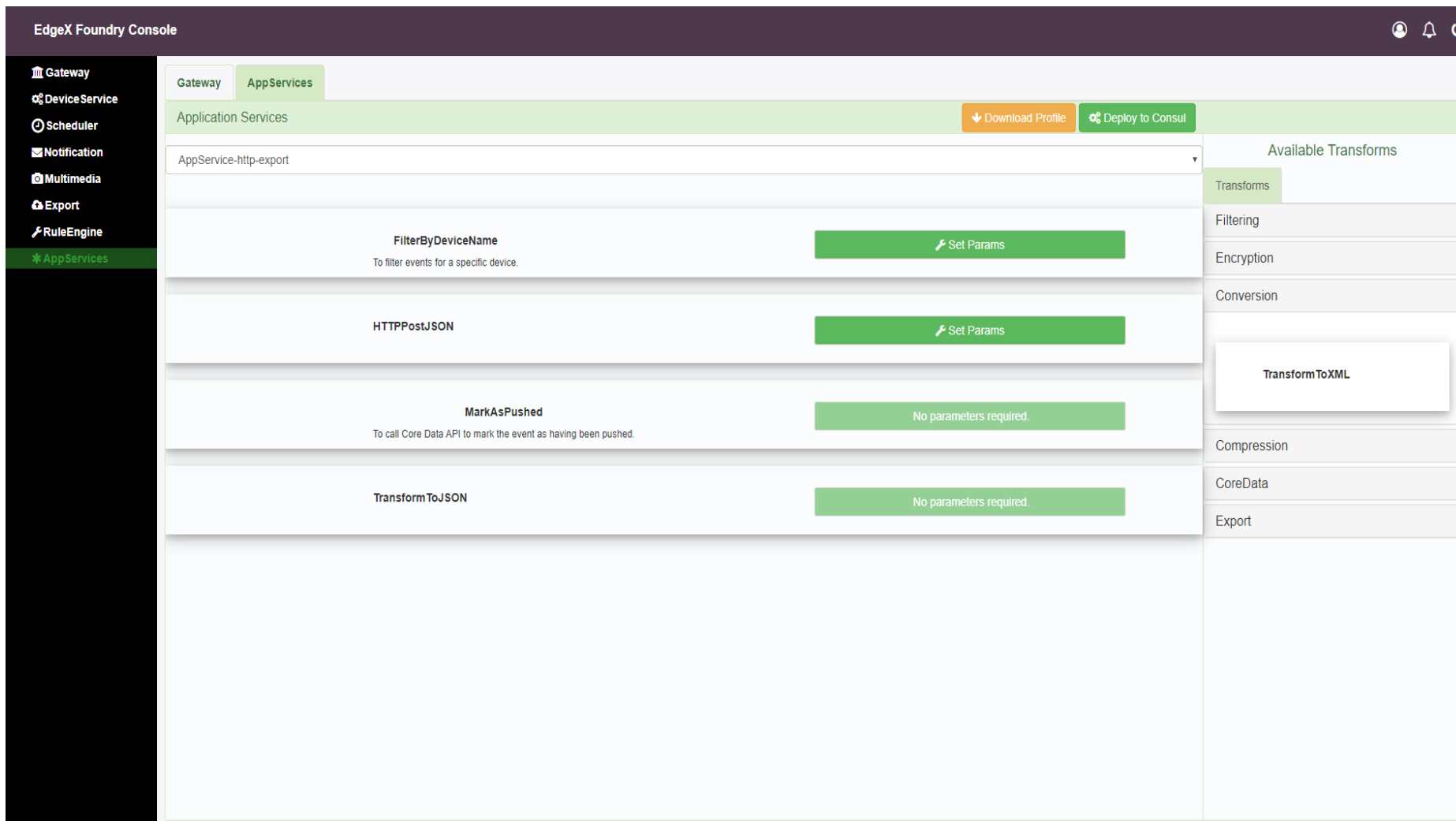
- 选中一个edgex的实例
- 单击左侧AppServices菜单
- 选择一个edgex当中现有的app service



# 增加App Services管理页面

为方便用户管理edgex的application services，特添加此页面

- 界面左侧为当前选中的app service中已存在的事件
- 界面右侧为可供拓展的app service事件
- 此界面采用拖拽的方式对app service进行管理
- Download按钮为下载当前选中的app service 的xml配置文件
- Deploy to Consul按钮可将当前事件组合发布到edgex实例当中



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