Read the Docs Template Documentation

Release 1.0

Read the Docs

Oct 16, 2018

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CHAPTER 1

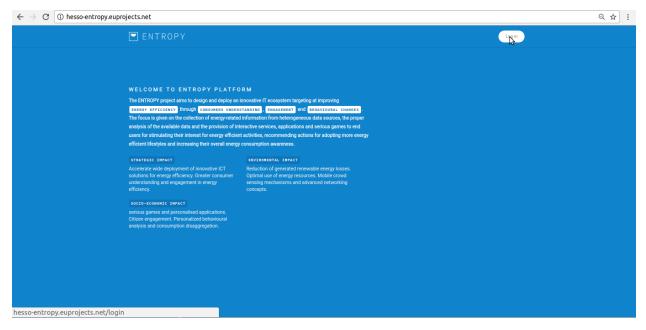
Entropy walkthrough

1.1 Create Account

• When a user access the ENTROPY site (https://http://hesso-entropy.euprojects.net//) the following screen is shown:

$\leftarrow \rightarrow \mathbb{C}$ (i) hesso-entropy.euprojects.net						
ENTROPY			Log in			
WELCOME TO ENTROPY PLATFO	RM					
The ENTROPY project aims to design and deploy an						
	STANDING, ENGAGEMENT BILD BEHAVIOURAL CHANGES.					
	I information from heterogeneous data sources, the proper eractive services, applications and serious games to end					
	t activities, recommending actions for adopting more energy					
efficient lifestyles and increasing their overall energy						
STRATEGIC IMPACT						
STRATEGIC INPACT Accelerate wide deployment of innovative ICT	ENVIROMENTAL IMPACT Reduction of generated renewable energy losses.					
solutions for energy efficiency. Greater consumer	Optimal use of energy resources. Mobile crowd					
understanding and engagement in energy efficiency.	sensing mechanisms and advanced networking concepts.					
SOCIO-ECONOMIC INPACT serious games and personalised applications.						
Citizen engagement. Personalized applications.						
analysis and consumption disaggregation.						

• Click on login button.



• Click on "Create Account" button.

$\leftarrow \ \ ightarrow \ \ \mathbf{C} \ \ \left[\ensuremath{\textcircled{\sc 0}}$ Not secure hesso-entropy.euprojects.net/login		ର୍ ଏ	₩☆:
ENTROPY		Log in	
	CREATE ACCOUNT		
	USERNAME		
	PASSWORD		
	LOGIN		
	Forgot Password? Reset		
	Learn more about ENTROPY		
hesso-entropy.euprojects.net/register			

• Provide account information and click on "CREATE ACCOUNT" button.

$\leftrightarrow \rightarrow {f C} $ (1) Not secure hesso-entropy.euprojects.net/register			Q 🕶 🕁	:
ENTROPY		Log in		
	← GO BACK			
	FIRST NAME (OPTIONAL)			
	Jonh LAST NAME (OPTIONAL)			
	Doe			
	USERNAME *			
	jonh81 PASSWORD *			
	E-MAIL * gilmour166			
	ROLE *			
	Enduser V			
hasso-entropy euprojects net/register				

• Go to your email and click on ENTROPY account information link.

From ENTROPY <entropy-noreply@ubitech Subject ENTROPY Account Activation To Me <gilmour166@hotmail.com>🏠</gilmour166@hotmail.com></entropy-noreply@ubitech 	Leu>Ω	Reply Forward	Archive	🍐 Junk	🚫 Delete	More ▼ 03:19 µµ
	ENTROP	Y				
	Dear jonh81, <u>Please submit the questionnaire</u> to activate your accour registration in the ENTROPY. If you received this by mini- it, please disregard this email. Kind regards, The ENTROPY team.	int and complete your istake or weren't expect	ng			

• Complete the ENTROPY Questionnaire.

→ C ③ hesso-entropy.euprojects.net/questionn	aire/4f987eee-03f8-4234-a29c-8256e85e7	995							ର 🕁
	ENTROPY							Log in	
	Infol To enable your account first fill the Questionnaire								
	Questionnaire								
	Intro Page Before Questionnaire								
	Welcome to the Entropy EU research project Questionnaire.	Welcome to the Entropy EU research project Questionnaire.							
	ENTROPY project is concerned with the energy consumption in public buildings. It as efficiency and conservation in the buildings.	pires to alter the er	nergy usage t	ehaviour of th	e buildings' oo	cupants with th	e aim to achi	leve greater energy	
	The following questionnaire is estimated to take 10 minutes and all answers are anony needs and preferences. If you wish, you will have the chance to test the actual Entropy s	mized. The collecte ervices in the near l	d information future.	will be utilized	to design and	develop the En	ropy services	to reflect your real	
	You can start by pressing the start button on the lower right corner.								
	Disclaimer: All data collected through this survey shall be kept private. We will under n anonymous and will be used exclusively for research purposes.	o cecumstances di	oseminate yo	a information	to any third par	ny. The respon	es collected	by us shall be kept	
	For each of the following statements, please state the degree of your agreement, by s	Personality te relecting between 1		sagree) to 7- (S	trongly Agree).				
	* I See myself as:								
		Strongly disagree	Disagree	Somewhat disagree	Neither agree nor clisagree	Somewhat agree	Agree	Strongly agree	
	Extraverted, enthusiastic.	0	0	0	0	0	0	0	
	Critical, quarrelsome.	0	0	0	0	0	0	0	
	Dependable, self-disciplined.	0	0	0	0	0	0	0	
	Analous, easily upset.	0	0	0	0	0	0	0	
	Open to new experiences, complex.	0	0	0	0	0	0	0	
	Reserved, quiet.	0	0	0	0	0	0	0	
	Sympathetic, warm.	0	0	0	0	0	0	0	
	Disorganized, careless.	0	0	0	0	0	0	0	
	Calm, emotionally stable.	0	0	0	0	0	0	0	
	Conventional, uncreative.	0	0	0	0	0	0	0	
	Plage 1 of 5								
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		à							

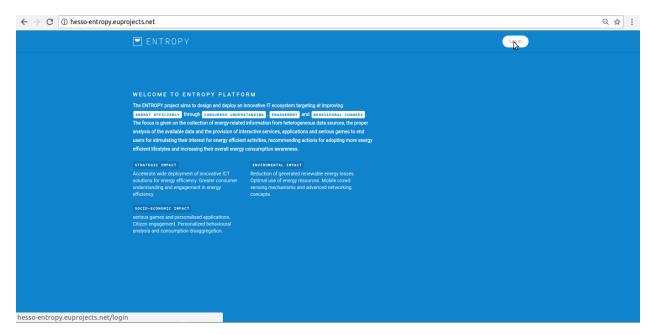
• You have successfully Create an New Account.

1.2 Login

• When a user access the ENTROPY site (https://http://hesso-entropy.euprojects.net//) the following screen is shown:

\leftarrow \rightarrow C (i) hesso-entropy.euprojects.net		२ ☆ :
ENTROPY		Log in
WELCOME TO ENTROPY PLATFO	RM	
The ENTROPY project aims to design and deploy an		
	STANDING, ENGAGEMENT AND BEHAVIOURAL CHANGES	
	I information from heterogeneous data sources, the proper eractive services, applications and serious games to end	
	t activities, recommending actions for adopting more energy	
efficient lifestyles and increasing their overall energy	consumption awareness.	
STRATEGIC IMPACT	ENVIROMENTAL IMPACT	
Accelerate wide deployment of innovative ICT	Reduction of generated renewable energy losses.	
solutions for energy efficiency. Greater consumer understanding and engagement in energy	Optimal use of energy resources. Mobile crowd sensing mechanisms and advanced networking	
efficiency.		
SOCIO-ECONOMIC IMPACT		
serious games and personalised applications. Citizen engagement. Personalized behavioural		
analysis and consumption disaggregation.		

• Click the <Log in> button .



• Provide your login credentials and click the <SIGN IN> button.

\leftarrow \rightarrow C (1) Not secure hesso-entropy.euprojects.net/login			Q 🕶 🕁 🗄
ENTROPY		Log in	
	Q CREATE ACCOUNT		
	USERNAME pars81 PASWORD Cogn Forgot Password? Reset		
	Learn more about ENTROPY [#		

• Upon successful authentication the following screen will be presented.

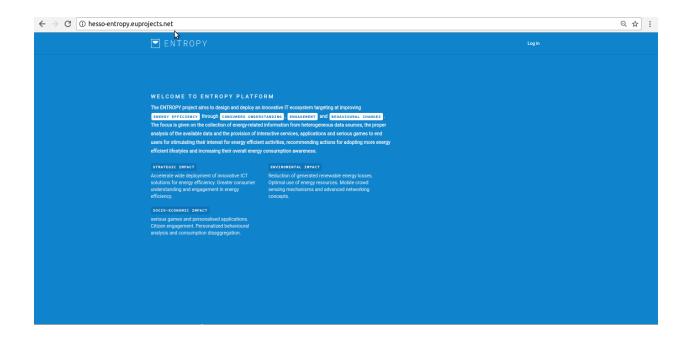
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ENTROPY	ල Dashboard 😦 Account -පු Logozt (pariteSI)	
DASHBOARD Messages 7 Campaign Evaluation	/ DASHBOARD Constant	
	Weather Weather information on platform usage Weather Weather information for Siene, VS 7 55 26 16 Mostly Cloudy 62 % Areas Sensors Diseams Usars 0 °C Humidity 2-7 0.00 km/h Wind 0/0 0/0 0/0 0/0 0/0 0/0 0/0	
	Quizzes Tasks Tips Questions Connected Applications Your apps profile overview	
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1.3 Logout

• In order to perform logout click the <Log-out > Button.

$\leftarrow \rightarrow \mathbf{C}$ (i) hesso-entropy.euprojects.net/dashboard		Q 🕶 🕁 🗄
ENTROPY	Dashboard Account Genet(painst)	<u>^</u>
🔊 Messages	/ DASHBOARD Dashboard Platform Overview	
7 Campaign Evaluation	Statistics Weather Information on platform usage Weather information for Sierre, VS	
	7 55 26 16 Mostly Cloudy 62 % Areas Sensors Streams Users 0 °C Humidity -2 - 7 000 km/h Wind Wind Wind	
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hesso-entropy.euprojects.net/logout		*

• Upon successful logout the following screen will be presented.



1.4 Reset password

• In order to reset our existing password click the Reset Button.

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\leftrightarrow \rightarrow C () Not secure hesso-entropy.euprojects.net/login			ସ 🕶 🕁 🗄
ENTROPY		Log in	
	Q CREATE ACCOUNT	т	
	USERNAME		
	paris81		
	PASSWORD		
	LOGIN		
	Forgot Password? Re		
	Learn more about ENTROPY		
hesso-entropy euprojects net/reset-password			

• Click on "RESET" button.

\leftrightarrow C O Not secure hesso-entropy.euprojects.net/reset-password		ର୍ଦ୍ୟ :
ENTROPY		
	← GO BACK	
	PLEASE ENTER YOUR USERNAME OR EMAIL TO RESET YOUR PASSWORD * patis@gmail.com	
	by the second se	

• An Email has been send to your associate email account.

$\leftarrow \rightarrow \mathbb{C}$ (1) Not secure hesso-entropy.euprojects.net/reset-password Q $\Leftrightarrow \Rightarrow$:
ENTROPY Login	
• 00 BACK In email has been sent to logic pan@gmail.com with further instructions. RLEASE DITENT VOLUSEBILAGE ON EANAL TO BEEST YOUR ASSESSMED * Instrument of the sent to logic pan@gmail.com with further instructions. Instrument of the sent to logic pan@gmail.com with further instructions. Instrument of the sent to logic pan@gmail.com with further instructions. Instrument of the sent to logic pan@gmail.com with further instructions. Instrument of the sent to logic pan@gmail.com with further instructions. Instrument of the sent to logic pan@gmail.com with further instructions. Instrument of the sent to logic pan@gmail.com with further instructions. Instrument of the sent to logic pan@gmail.com with further instructions. Instrument of the sent to logic pan@gmail.com with further instructions. Instrument of the sent to logic pan@gmail.com with further instructions. Instrument of the sent to logic pan@gmail.com with further instructions. Instrument of the sent to logic pan@gmail.com with further instructions. Instrument of the sent to logic pan@gmail.com with further instructions. Instrument of the sent to logic pan@gmail.com with further instructions. Instrument of the sent to logic pan@gmail.com with further instructions. Instrument of the sent to logic pan@gmail.com with further instructions. Instrument of the sent to logic pan@gmail.com with further instructions. Instrument of the sent to logic pan@gmail.com with further instructions. Instrument of the sent to logic pan@gmail.com with further instructions. Instrument of the sent to logic pan@gmail.com with further instructions. Instrument of the sent to logic pan@gmail.com with further instructions. Instrument of the sent to logic pan@gmail.com with further instructions. Instrument of the sent to logic pan@gmail.com with further instrument of the sent to logic pan@gmail.com with further instrument of the sent to logic pan@gmail.com with further instrument of the sent to logic pan@gmail.com with further instrument of the sent to logic pa	

• Go to your email and click on ENTROPY reset account link.

ENTROPY
Dear paris81, We received a request to reset your password. <u>Click here to reset your password</u> . A new password will be emailed to you. If your received this by mistake or weren't expecting it, please disregard this email. Kind regards, The ENTROPY team.

• Login again to Entropy.

$\leftarrow \ \ \rightarrow \ \ \mathbf{C} \ \ \ \ \ \ \ \ \ \ \ \ \ $			ର ☆ :
ENTROPY		Log in	
	~		
	Ť		
	You have successfully reset your password. You will receive an email with your new password. <u>Please</u> <u>change your password after log in.</u>		
	You can login here.		

• Use your temporarily password.

Dear paris81, Your new password is b3c04af1-eafe-4400-8a7f-47e793a0d343 . Please change your password after login. Kind regards, The ENTROPY team.	ENTROPY
	Your new password is b3c04af1-eafe-4400-8a7f-47e793a0d343 . Please change your password after login.
	The ENTROPY team.

• Click on "Account" menu-item.

\leftrightarrow \rightarrow C () hesso-entropy.euprojects.net/dashboard		Q 🕶 🕁 🗄
ENTROPY	Dashbard O Dashbard Joput (paris1)	^
DASHBDARD	/ DASHBOARD Dashboard Platform Overview	
? Campaign Evaluation	Statistics Weather Information on platform usage Weather Information for Siene, VS	
	7 55 26 16 Mostly Cloudy 59 % Areas Sensors Streams Users 5°C Humidity -2 - 7 0.00 km/h Wind Wind Viel	
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	Statistic View (pre) Energy conserva V Users metrics Select your connected app V	
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	Loca of Orthon 0 2 2 3 2 3 2 4 1 Ensury Avenesa 0 2 2 3 1 4 1 Ensury Avenesa 0 0 2 2 3 1 4 1 Ensurement Person Normality 0 0 0 7 1 0 1 0	
	Behavaszei felomásuszi Behavaszei felomásuszi<	

• Click on "Change password" button.

\leftarrow \rightarrow C \bigcirc hesso-entropy.euprojects.net/account/profile			ର୍ଦ 🕁 🗄
ENTROPY		⊗ Deshboerd 👩 Account -∃ Logout (peris81)	
ACCOUNT	/ ACCOUNT / PROFILE ACCOUNT Profile Management	✗ EDIT PROFILE	
▲ Disable Account	FIRST NAME LAST NAME LAST NAME EMAIL lispis partigigmail.com USERNAME purisi1 AREAS OF ACTIVITY A-= III 9x2		
	L.		

• Provide your new password and click on "SAVE" button.

$ \epsilon ightarrow {f C} $ () Not secure $ $ hesso-entropy.euprojects.net/account	/password				Q 🕶 🕁 🗄
ENTROPY		Oashboard	Account	- Logout (paris81)	
Count Change Paseword Disable Account Disable Account	/ ACCOUNT / PASSWORD Account Password Management - Change password CLD PASSWORD * NEW PASSWORD * REPLAT RASSWORD *	Databard	O Account	_ Loport (purită!)	

• Your password has successfully reset and updated.

CHAPTER 2

Dashboard

2.1 Campaign Manager Dashboard

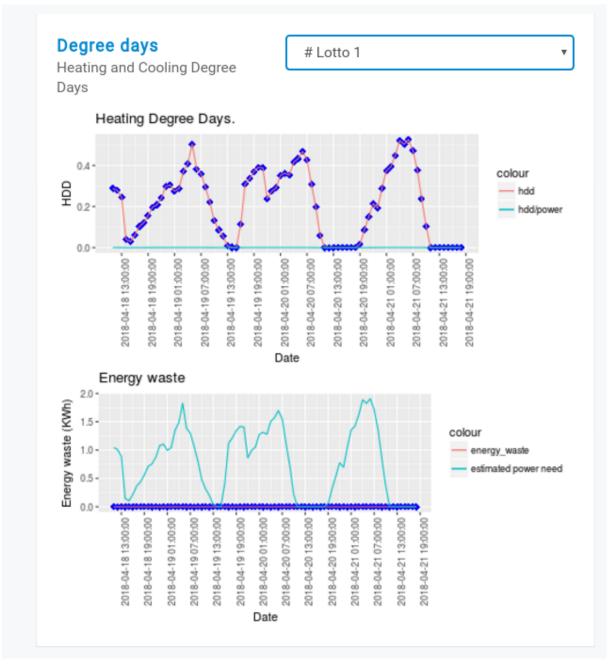
- Initially the user must login using the Campaign manager Credentials.
- Click on Dashboard button to review it.
- Dashboard includes sever information such as an overall view of registered sensors, areas, streams etc, local weather conditions, connected consumption apps.
- In case there is an active campaign, Dashboard also informs about the responsiveness of the users to the generated recommendations.

ENTROPY				⊙ Dashboard	Account	∓ Admin	-∃ Logout (entropy)
DASHBOARD	/ DASHBOARD						
☑ Messages	Dashboard						
	Platform Overview						
Analytics							
Queries	Statistics Information on pla	atform usage			Weather Weather i		Las Torres de Cotillas,
					Murcia		
E Streams	40	595	104	27			
Sensors	Areas	Sensors	Streams	Users	Sunny		71 %
Areas					12 °C 9 - 23		Humidity 6.44 km/h
H House		Current Campa	ign: Third Campaign		9-23		Wind
근 Campaigns	25 - 0 - 100	1 - 0 - 19	24 - <mark>0</mark> - 49	2 - 0 - 11			
? Help	Quizzes (125)	Tasks (20)	Tips (73)	Questions (13)	Degree Heating a		# chemistry 🔻

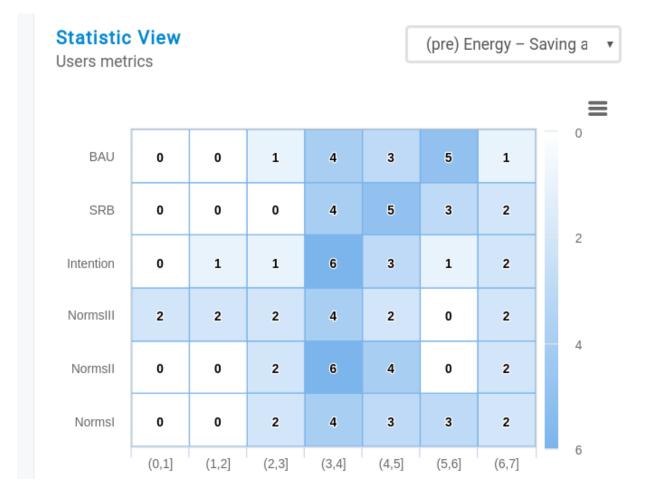
• Within a dropdown menu the Admin or Campaign manager can see some area statistics for the last 25 hours regarding the temperature and consuption of each registered building/area.

ENTROPY	⊙ Dashboard 🏚 Account 🔻 Admin 🚽 Logout ((entropy)
DASHBOARD	Select your connected app	Ŧ
 Image: Analytics Mage: Queries 	Area View Defaults Streams per area	
E Streams	66.6 m ² / 10 people / Office - POLARIS - CYBERLEARN - SAP - VANN	
SensorsAreas	Area Statistics (Last 24 hours) Click and drag in the plot area to zoom in 30 °C 1200 watt Applications Select an app	Ŧ
⊖ Campaigns ? Help	28 °C 960 watt 970 960 watt 960 watt	
	28°C 900 Wart 26°C 24°C 24°C 480 watt	
	22 °C 240 wait	

• Within a dropdown menu the Admin or Campaign manager can see the cooling/heating degree days as well as the relevant energy waste per area.



Also can see the behavioural profile of the registered Users. To see the behavioural change has to compare the behavioural heatmaps hosted at the campaigns menu part.



2.2 End User Dashboard

- Initially the user must login using the End User Credentials.
- Click on Dashboard button to review it. The End User has limited access (messages, campaign evaluation)

\leftrightarrow \Rightarrow C (i) hesso-entropy.euprojects.net/dashboard		९ ☆ :
ENTROPY	🙃 Dashboard 🍙 Account 🔄 Logout (paris81)	Î
DASHBOARD	/ DASHBOARD To Deshboard Platform Overview	
? Campaign Evaluation	Statistics Weather Information on platform usage Weather information for Sierre, VS	
	7 55 27 16 Mostly Cloudy 78 % Areas Stersors Stearns Users -2 °C Humdhy -3 - 7 6.44 km/h Wind Wind	
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hesso-entropy.euprojects.net/dashboard	Bit Resource Streteture 0 2 1 3 2 5 0 Bit Reported Entrations 0 0 1 2 3 2 0 0 0 1 2 3 2 0 0 0 0 1 2 3 2 0 </td <td></td>	

CHAPTER $\mathbf{3}$

Account

3.1 Edit Profile

- In order to edit an existing profile several consecutive steps have to be undertaken.
- Initially the user must be login.

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ENTROPY	O Danhourd 🔿 Account 🐺 Admin	▲
DASHBOARD	/ DASHBOARD	
🝙 Messages	Dashboard	
<u>at</u> Analytics	Platform Overview	
Queries	Statistics Weather Information on platform usage Weather information for Sierre, VS	
Streams	7 55 27 16 Mostly Cloudy 78 %	
© Sensors	Areas Sensors Streams Users -2 °C Humidity	
e. Areas	-3 - 7 6.44 km/h Wind	
? Campaign Evaluation	55/876 3/94 91/963 54/559 Quizzes Tasks Tips Questions	
	Connected Applications Your apps profile overview	
	Statistic View (pre) Energy conserva V Users metrics Select your connected app V	
	Conscioures in Energy-Sa 0 1 0 0 4 1 0 0	
	Energy Consumption Hall 1 2 2 0 3 1 0 Intertion to use an app for e 0 2 1 0 3 0 2	
	Spitzver Behaviours 0 2 1 0 4 2 0 Loces of Creteria 0 3 2 5 2 3 0	
	Energy Ausreness 0 2 2 3 1 4 1 Applications	
	Environmental Personal Nor 0 0 2 5 2 5 1 Environmental Worksleves 0 0 0 7 8 0 0 0 Select an app V	
	Behavioural intervitors 0 2 1 5 2 5 0 SetF-Reported Behaviours 0 0 1 7 5 2 0	
	(0.1) (1.2) (2.3) (3.4) (4.3) (3.0) (6.7) 8	
hesso-entropy euprojects net/dashboard		

• Click on "account" menu-item.

\leftarrow \rightarrow C (hesso-entropy.euprojects.net/account/profile				९ ☆ :
ENTROPY	⊙ Dashboard	Account ¥ Admin	- Logout (entropy)	
ACCOUNT Profile Profile Change Password	/ ACCOUNT / PROFILE ACCOUNT Profile Management FIRST NAME	Ν	EDIT PROFILE	
Disable Account	LAST NAME EMAL fretopodeu@gmail.com USERNAME entrop			
	AREAS OF ACTIVITY			
hesso-entropy.euprojects.net/account/profile				

• Click on "edit profile" button.

\leftarrow \rightarrow C (i) hesso-entropy.euprojects.n	et/account/profile					Q	☆ :
	ENTROPY		¢ Account	¥ Admin	- Logout (entropy)		
hesso-entropy,euprojects.net/account/pro	ACCOUNT	ACCOUNT / PROFILE ACCOUNT Profile Management RRST MAME LAST MAME MIL fwtropoulou@gmail.com USERMANE mropy ACEAO OF ANTIVT WEXNANE WEXNANE WEXNE WEXNANE WEXNANE WEXNANE WEXNE WEXNANE W			EDIT PROFILE		

• Provide profile details and push the "save" button.

\leftrightarrow \rightarrow C (i) hesso-entropy.euprojects.	net/account/profile/edit						Q \$: 3
	ENTROPY		O Dashboard	Account	¥ Admin	- Logout (entropy)		
	CCOUNT Crefie Change Paseword Disable Account	ACCOUNT / PROFILE / EDIT ← ACCOUNT Profile Management First Name First Name Last Name Last Name EMAL Profile Decoderolignmail.com USERNAME entropy AREAS of FUTIYY ↓ ♥ DOCE ♥ DOCARS ♥ VIENLENN ↓ ♥ SAP ♥ VIENLENN ♥ VIENLENN	Deshboard	Account	* Admin	_ Lagout (entropy)		
		SAVE						

• Upon successful update, the overall list of profiles will be update it.

3.2 Disable Account

- In order to disable an existing account several consecutive steps have to be undertaken.
- Initially the user must be login.

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ENTROPY			Dashboard	Account 📮 Admin 🔄 Logout (entropy)	▲
DASHBOARD	/ DASHBOARD		14		
🙆 Messages	Dashboard				
Lt Analytics	Platform Overview				
	Statistics			Weather	
Queries	Information on platform usa	ge		Weather information for Sierre, VS	
E Streams	7 55	27	16	Mostly Cloudy 78 %	
Sensors	Areas Senso	rs Streams	Users	-2 *C Humidity -3 - 7 6.44 km/h	
e. Areas				-3-7 U.44 KII/II Wind	
? Campaign Evaluation	55/876 3/94 Quizzes Tasks	91/963 Tips	54/559 Questions		
r Gampaign Eradauon				Connected Applications	
				Your apps profile overview	
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			=		
	Consciousness in Energy-Sa	0 1 3 6 4			
	Energy Consumption Habit Intention to use an app for e	1 2 2 6 3 0 2 1 6 3	1 0 3 0 2		
	Spillover Behaviours		2 0		
	Locus of Control	0 3 2 5 2	4		
	Energy Awareness Environmental Personal Nor	0 2 2 5 1		Applications Download our apps	
	Environmental Worldviews	0 0 0 7 8		Select an app	
	Behavioural Intentions	0 2 1 5 2		outor an app	
	Self-Reported Behaviours	0 0 1 7 5 (0,1] (1,2] (2,3] (3,4] (4,5]			
hesso-entropy.euprojects.net/dashboard		(v,s] (s,s] (d,3] (3,9] (9,3]	feed feed		
nesse entropyteeprojettsmed austroodra					•

• Click on "account" menu-item.

\leftrightarrow \rightarrow C () hesso-entropy.euprojects.net/account/profile		९ ☆ :
ENTROPY		
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hesso-entropy.euprojects.net/account/profile		

• Press on the "Disable Account" button.

• The desired account has been disabled.

CHAPTER 4

Admin

4.1 Approve Campaign managers

- In order to approve Campaign managers several consecutive steps have to be undertaken.
- Initially the user must be login.

← → C () hesso-entropy.euprojects.net/dashboard					@ ☆ :
ENTROPY			Dashboard	Account 🐺 Admin: Logout (entropy)	
DASHBOARD	/ DASHBOARD		M.		
🖻 Messages	Dashboard				
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a Queries	Statistics Information on platform usage			Weather Weather information for Sierre, VS	
🖶 Streams	7 55	27	16	Mostly Cloudy 78 %	
Sensors	Areas Sensors	Streams	Users	-2 *C Humidity -3 - 7 6.44 km/h	
E. Areas				Wind	
? Campaign Evaluation	55/876 3/94 Quizzes Tasks	91/963 Tips	54/559 Questions		
				Connected Applications Your apps profile overview	
	Statistic View Users metrics	(pre)	Energy conserva 🔻	Select your connected app	
	Consciousness in Energy-Sa	1 3 6 4	1 0		
	Energy Consumption Habit				
	Spiliover Behaviours				
	Locus of Control	3 2 5 2			
	Energy Awareness 0			Applications	
	Environmental Personal Nor 0 Environmental Worldviews 0	0 2 5 2		Download our apps	
	Behavioural Intentions			Select an app	
		0 1 7 5			
	(0,	1] (1,2] (2,3] (3,4] (4,5]	(5,0] (6,7] 8		
hesso-entropy.euprojects.net/dashboard					

• Click on "Admin" menu-item.

\leftrightarrow \rightarrow C (i) hesso-entropy.euprojects.net/user			Q	.☆:
ENTROPY		⊙ Dashboard	ے Logout (entropy)	
ADMIN 🛓 Users 🏩 System Logs	/ USER User User List	ki		
	Username E-mail	Status	Block	
	hessoArvr_CManager mario.sovulj@arvrtech.eu	v	Block	
	liapis81 liapis.paris⊜ubitech.eu	0	Approve	

• Click on "approve" button.

\leftrightarrow \rightarrow \mathbb{C} (i) hesso-entropy.euprojects.ne	t/user						ର ☆ :
	ENTROPY			Account	Admin	- Logout (entropy)	
	💄 Users	/ USER USEr User List					
		Usemame	E-mail	Status			
		vincent.schule	vincent.schule2@hevs.ch	* *		Block	
		liapis81	mario.sovulj@arvrtech.eu liapis.paris@ubitech.eu	0		Approve	
						2	
javascript:void(0)							

• Upon successful approve, the overall list of profiles will be update it.

\leftrightarrow \rightarrow C (i) hesso-entropy.euprojects.net/use	er							ର ☆ :	
	ENTROPY			Dashboard	Account	¥ Admin	- Logout (entropy)		
	Users	JSER SEF er List							
			E-mail vincent.schule2@hevs.ch		Status		Block		
			mario.sovulj@arvrtech.eu		~		Block		
		liapis81	liapis.paris@ubitech.eu		*		Block		

4.2 Visualize system Logs

- In order to visualize system logs several consecutive steps have to be undertaken.
- Initially the user must be login.

\leftarrow \rightarrow C (i) hesso-entropy.euprojects.net/dashboard		२ ☆ :
ENTROP	© Dathboard o Account + Admin -g LogovA (entropy)	1
DASHBOARD	/ DASHBOARD	
Messages	Dashboard	
ut Analytics	Platform Overview	
J Queries	Statistics Weather Information on platform usage Weather information for Sierre, VS	
	montation of partorn usage meaners in others, to	
E Streams	7 55 27 16 Mostly Cloudy 78%	
Sensors	Areas Sensors Streams Users -2 °C Humidity -3-7 6.44 km/h	
• Areas	Wind 55/876 3/94 91/963 54/559	
? Campaign Evalue	uation Quizzes Tasks Tips Questions	
	Connected Applications Your apps profile overview	
	Statistic View (pre) Energy conservar V	
	Users metrics Select your connected app	
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	Energy Consumption Habit 1 2 2 6 6 3 1 6	
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	Locus of Central 0 3 2 5 2 3 0	
	Energy Awareness 0 2 2 5 1 4 1 Environmental Personal Norm. 0 0 2 5 1 1 Download our apos	
	Environmental Versional Norm. 0 0 2 3 1 Download our apps Environmental Versionales 0 0 7 8 0 0 5elect an app V	
	Behavioural Intentions 0 2 1 5 2 5 0	
	Self-Reported Behaviours 0 0 1 7 5 2 0 0 1 7 5 2 0 0 0 1 7 5 2 0 0 0 0 1 7 5 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
hesso-entropy.euprojects.net/dashboard		

• Click on "Admin" menu-item.

\leftrightarrow \rightarrow C \bigcirc hesso-entropy.euprojects.net/user				ର ☆ :
ENTROPY			Logout (entropy)	
▲ Users	/ USER User User List	13		
	Username E-mail	Status		
	vincent.schule2@hevs.ch hessoArvr_CManager mario.sovulj@arvrtech.eu	به به	Block	
	liapis81 liapis.paris@ubitech.eu	Ø	Approve	

• Click on "System logs" menu-item.

\leftarrow \rightarrow C (i) hesso-entropy.euprojects.net/user							२ ☆ :
ENTROPY			Oashboard	Account	∓ Admin	- Logout (entropy)	
▲ Users ♠ System Logs	/ USER User User List						
3	Username	E-mail		Status			
	vincent.schule	vincent.schule2@hevs.ch mario.sovulj@arvrtech.eu		*		Block	
	liapis81	liapis.paris@ubitech.eu		~		Block	

• The campaign manager can access the appropriate system log.

\leftrightarrow \rightarrow C () hesso-entropy.euprojects.net/syslog?page	e=0&size=15	ବ 🕁
ENTRO	PY Dashbourd _● Account = Admin _= Logout (entropy)	
● ENTRO ADMH ▲ Users ▲ System Logs	PY Outcom	
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CHAPTER 5

Register a new Building area

5.1 Register a new Building Area

- In order register a new building area several consecutive steps have to be undertaken .
- Initially the user must login.

\leftrightarrow \rightarrow C (i) hesso-entropy.euproje	ects.net/dashboard					Q ☆
	ENTROPY		© D	ashboard 🔹	Account 🛛 Admin 🚽 Logout (entropy)	
	DASHBOARD	/ DASHBOARD		M2		
	🝙 Messages	Dashboard				
		Platform Overview				
	Malytics	01-11-11-1				
	Queries	Statistics Information on platform usage			Weather Weather information for Sierre, VS	
	E Streams	7 55	27	16	Mostly Cloudy 78 %	
	Sensors	Areas Sensors		Users	-2 °C Humidity	
	 Areas 				-3 - 7 6.44 km/h Wind	
		55/876 3/94	91/ 963	54/559	******	
	? Campaign Evaluation	Quizzes Tasks	Tips	Questions		
					Connected Applications Your apps profile overview	
		Statistic View Users metrics	(pre) Energ	y conserva 🛛 🔻	Select your connected app	
				=		
		Consciousness in Energy-Sa 0	1 3 6 4 1	•		
				0		
		Intention to use an app for e	2 1 6 3 3	0 2		
			2 1 6 4 2			
			3 2 5 2 3 2 2 5 1 4	- 4		
			0 2 5 2 5		Applications Download our apps	
		Environmental Worldviews 0	0 0 7 8 0	• •	Select an app	
			2 1 5 2 5			
				•		
		(0,1)	(1,2] (2,3] (3,4] (4,5] (5,6]	(o, (]		
hesso-entropy.euprojects.net/dashbo	bard					

• Click on "Areas" Menu-item.

(i) polo-entropy.euprojects.net/ai							
	ENTROPY			⊘ Dashboard	Account	∓ Admin	-∃ Logout (entropy)
	DASHBOARD	/ AREAS Areas Area List			\odot	AREA HIERARC	HY 🕂 NEW AREA
	 ▲ Analytics ④ Queries ■ Streams 		Lotto 1 1150.0 m ² / 11 people / Enterprise_Building Heat Transfer Coefficient 3.6249 kW	STREAMS	SENSORS	SUBAREAS	EDIT DELETE
	 Sensors Areas Campaigns 	•	Lotto 2 800.0 m ² / 40 people / Enterprise_Building Heat Transfer Coefficient 1.5 kW	STREAMS	SENSORS	SUBAREAS	EDIT DELETE
	? Help	Q.	Lotto 3 90.0 m ² / 8 people / Enterprise_Building Heat Transfer Coefficient 1.5 kW	STREAMS	SENSORS	SUBAREAS	EDIT DELETE

• Click on "New Area" button.

\leftarrow \rightarrow \bigcirc \bigcirc \bigcirc hesso-entropy.euprojects.net/area		ର ☆ :
ENTROPY	⊙ Dashboard 🏼 🎝 Account 🐺 Admin -⊐ Logout (entropy)	
🙆 Messages	/ AREAS Areas Area List	
Lt Analytics ♦ Queries ■ Streams	IIG_V2 STREAMS SENSORS SUBAREAS EDIT DELETE 3382.6 m ² / 99 people / Enterprise_Building	
Sensors	Sierre STREAMS SENSORS SUBAREAS EDIT DELETE	
? Campaign Evaluation		
hesso-entropy.euprojects.net/area/add		

• Provide the new area details and click on "Save" button.

In order to get information about the energy waste of you building you should providing data for (see attached figure):

- the global energy performance (as made available in the energy certificate) in kWh/m3
- the heating energy performance (as made available in the energy certificate) in kWh/m3
- the cooling energy performance (as made available in the energy certificate) in kWh/m3
- the heating degree days for the previous year (e.g. 2017) as made available by wunderground.com (e.g. https://www.wunderground.com/history/airport/LERI/2018/4/30/CustomHistory.html?req_city=Murcia& req_statename=Spain&reqdb.zip=00000&reqdb.magic=248&reqdb.wmo=08429)
- the cooling degree days for the previous year (e.g. 2017) as made available by wunderground.com

Such data is used towards the calculation of the Heat Transfer Coefficient, as well as the estimated need for power for heating/cooling at each period of time.

NAME *					
Lotto 1					
AREA SPACE	TYPE				
Enterpris	e Building			>	< v
AREA TIMEZ	ONE *				
Europe/R	ome			5	< -
HEATING DE	GREE DAYS PERIOD *				
from	2017-10-06	to	2018-04	-15	
COOLING DE	GREE DAYS PERIOD *				
from	2018-04-16	to	2018-10	-06	
SURFACE *					
1150.0					m²
GLOBAL ENE	RGY PERFORMANCE *				
26.528				kW	/h/m³
HEATING EN	ERGY PERFORMANCE *				
23.039				kW	/h/m³
COOLING EN	ERGY PERFORMANCE *				
0.0				kW	/h/m³
PREVIOUS Y	EAR HEATING DEGREE DAY	'S (HDD)	×		
3137.0					

1052.0

\leftarrow \rightarrow C (i) Not secure hesso-entropy.euprojects.	net/area/add						♀☆ :
ENTROPY			⊙ Dashboard	Account	∓ Admin	-⊒ Logout (entropy)	▲
					\$		_
DASHBOARD	/ AREAS / ADD				2		
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Queries	NAME *						
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E Streams	AREA SPACE TYPE Classroom		× •				
Sensors							
@ Areas	AREA TIMEZONE *						
? Campaign Evaluation							
	AREA OBJECTS						
	HVAC ×						
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	100		mm²				
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← → C ③ Not secure hesso-entropy.euprojects.r	net/area/add						Q & :
← → C O Not secure hesso-entropy.euprojects.r	net/area/add		O Dashboard	Account	₹ Admin		९☆ :
 ← → C O Not secure hesso-entropy.euprojects. ENTROPY 		0.00 20.00	⊗ Dashboard	🏟 Account	∓ Admin	- Logout (entropy)	Q A :
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DASHBOARD	SUNDAY 1		-	Account	¥ Admin	- Logout (entropy)	Q \$.
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DASHBOARD Messages Manalytics	SUNDAY 11 *The area is 2 Op FIWARE SERVICE * FIWARE SERVICE FIWARE SERVICE PATH * FIWARE SERVICE PATH		-	ð Account	∓ Admin	- Logout (entropy)	Q x :
DASHBOARD Messages LL Analytics Queries	SUNDAY 11 *The area is Op FIWARE SERVICE * FIWARE SERVICE PATH * FIWARE SERVICE PATH * FIWARE VICE PATH *		-	ð Account	₹ Admin	- Logout (entropy)	Q x :
DASHBOARD Messages Messages Messages Messages Messages Messages Messages Messages Messages Messages Messages Messages Messages Messages	SUNDAY 11 *The area is Op FIWARE SERVICE * FIWARE SERVICE PATH * FIWARE URL PATH * FIWARE URL PATH * FIWARE URL PATH *		-	Account	≭ Admin	- Logout (entropy)	Q \$
DASHBOARD Messages Messa	SUNDAY 11 *The area is Op FIWARE SERVICE * FIWARE SERVICE PATH * FIWARE SERVICE PATH * FIWARE UIL PATH * FIWARE UIL PATH * FIWARE OCB *		-	∳ Account	¥ Admin	- Logout (entropy)	Q x :
DASHBOARD Messages Le Analytics Queries E Streams () Sensors	SUNDAY 11 *The area is Op FIWARE SERVICE * FIWARE SERVICE PATH * FIWARE URL PATH * FIWARE URL PATH * FIWARE URL PATH *		-	¢ Account	∓ Admin	- Logout (entropy)	Q x i
DASHBOARD Messages Messa	SUNDAY 11 *The area is Op FIWARE SERVICE * FIWARE SERVICE PATH * FIWARE SERVICE PATH * FIWARE VICE PATH * FIWARE UCL PATH * FIWARE UCL PATH * FIWARE OCB * FIWARE OCB *	en between Closed a	-	∳ Account	∓ Admin	- Logout (entropy)	Q x :
DASHBOARD Messages Messa	SUNDAY 11 *The area is Op FIWARE SERVICE * FIWARE SERVICE PATH * FIWARE SERVICE PATH * FIWARE SERVICE PATH * FIWARE URL PATH * FIWARE URL PATH * FIWARE OCB * FIWARE OCB	en between Closed a	-	ð Account	₹ Admin	- Logout (entropy)	Q x :
DASHBOARD Messages Messa	SUNDAY 11 *The area is Op FIWARE SERVICE * FIWARE SERVICE PATH * FIWARE SERVICE PATH * FIWARE SERVICE PATH * FIWARE URL PATH * FIWARE URL PATH * FIWARE OCB * FIWARE OCB * SENSORS *Sensors available after Sav MAIN STREAMS	en between Closed a	-	() Account	* Admin	- Logout (entropy)	Q \$
DASHBOARD Messages Messa	SUNDAY 11 *The area is ↓ op FIWARE SERVICE * FIWARE SERVICE PATH * FIWARE SERVICE PATH * FIWARE OCB ATH FIWARE URL PATH * FIWARE URL PATH * FIWARE URL PATH * FIWARE OCB * FIWARE OCB * SENSORS *Sensors available after Sav	en between Closed a	-	Account	# Admin	- Logout (entropy)	Q A I
DASHBOARD Messages Messa	SUNDAY 11 *The area is Op FIWARE SERVICE * FIWARE SERVICE PATH * FIWARE SERVICE PATH * FIWARE SERVICE PATH * FIWARE URL PATH * FIWARE URL PATH * FIWARE OCB * FIWARE OCB * SENSORS *Sensors available after Sav MAIN STREAMS	en between Closed a	-	¢ Account	Admin	Logout (entropy)	Q x i

• Upon successful addition, the new area appears in area list.

5.2 Edit a Building Area

- In order to edit an existing building area consecutive steps have to be undertaken .
- Initially the user must login.

$\leftrightarrow \rightarrow \mathbf{C} \end{tabular}$ (i) hesso-entropy.euprojects.net/dashboard		९ ☆ :
ENTROPY	 Dashboard Account Admin Logout (entropy) 	<u>^</u>
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<u>لط</u> Analytics ی Queries	Statistics Weather Information on platform usage Weather information for Siene, VS	
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C Areas	55/876 3/94 91/963 54/559 Wind Quizzes Tasks Tgs Questions Connected Applications	
	Your apps profile overview Statistic View Ubars metrics Select your connected app	
	Consistences in forenge inter- I <thi< th=""> I <thi< th=""> I I <thi<< td=""><td></td></thi<<></thi<></thi<>	
	Engline Banavara 0 2 1 0 2 0 Local of Cell 0 3 2 3 1 4 1 Englisher Banavara 0 3 2 3 1 4 1 Englisher Banavara 0 2 2 2 7 1 1	
	Environmental Volationes, 0 0 0 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
hesso-entropy.euprojects.net/dashboard		-

• Click on "Areas" Menu-item.

① polo-entropy.euprojects.net/are	ENTROPY			⊙ Dashboard	🏚 Account	∓ Admin	- Logout (entropy)
	DASHBOARD	/ AREAS Areas Area List			\odot	AREA HIERARC	HY + NEW AREA
 ▲ Analytics ✓ Queries ✓ Streams ✓ Sensors ✓ Areas ↔ Campaigns 	Queries	0.	Lotto 1 1150.0 m² / 11 people / Enterprise_Building Heat Transfer Coefficient 3.6249 kW	STREAMS	SENSORS	SUBAREAS	EDIT DELETE
	0 Areas	0.	Lotto 2 800.0 m ² / 40 people / Enterprise_Building Heat Transfer Coefficient 1.5 kW	STREAMS	SENSORS	SUBAREAS	EDIT DELETE
	? Help	0.	Lotto 3 90.0 m² / 8 people / Enterprise_Building Heat Transfer Coefficient 1.5 kW	STREAMS	SENSORS	SUBAREAS	EDIT DELETE

• Click on "EDIT" button.

$igodoldsymbol{\in}$ $igodoldsymbol{\ominus}$ $igodoldsymbol{igodoldsymbol{\ominus}$ $igodoldsymbol{igodoldsymbol{\ominus}$ $igodoldsymbol{igodoldsymbol{\ominus}$ $igodoldsymbol{igodoldsymbol$	net/area						९ ☆ :
ENTROPY			② Dashboard	Account	∓ Admin	- Logout (entropy)	
DASHBOARD	/ areas			O	AREA HIERARO	HY 🕂 NEW AREA	
<u>⊾∎</u> Analytics 5≱ Queries	Area List	iig_v2 3382.6 m ² / 99 people / Enterprise_Building	STREAMS	SENSORS	SUBAREAS		
Streams Sensors	0_	sierre	STREAMS	SENSORS	SUBAREAS	EDIT DELETE	
Areas Campaign Evaluation		222.0 m ² / 11 people / Public_Building					

• Provide the edit area details and click on "Save" button.

\leftarrow \rightarrow \mathbb{C} () Not secure hesso-entropy.euprojects.	net/area/59c132f6e7d43855213741f5	९ ☆ :
ENTROPY	⊙ Dashboard 🏠 Account 📮 Admin -⊒ Logout (entropy)	
DASHBOARD	/ AREAS / IIG_V2	
🙆 Messages	← Areas	
LII Analytics	Area Edit	
Queries	NAME * iig_v2	
E Streams	AREA SPACE TYPE	
Sensors	Enterprise Building × •	
C Areas	AREA TIMEZONE *	
	Europe/London 🗶 🔻	
? Campaign Evaluation	AREA OBJECTS	
	HVAC X Lights X PC X Printer X Projector X Window X Blind X Kettle X Coffee Machine X Fridge X	
	SURFACE *	
	3382.6 mm ²	
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	99	
	LOCATION *	

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🗹 ENTROPY	⊙ Dashboard 🏚 Account 🐺 Admin	-∃ Logout (entropy)
DASHBOARD Messages LL Analytics Queries El Streams () Sensors	http://153.109.124.49:1026/v2/entities FWARE OCB * http://153.109.124.49:8666/STH/v1/contextEntities sensons common_electricity × common_environment × common_energy × common_energy.2 ×	
Campaign Evaluation	MAIN STREAMS OUTDOOR TEMPERATURE Add Stream INDOOR TEMPERATURE Add Stream Default Main Stream temperatureindoorSensor common_environment ION POWER CONSUMPTION Add Stream Default Main Stream energyConsumptionSensor common_electricity ION POWER PRODUCTION Add Stream	

- During editing the admin can move sensors from main areas to sub areas.
- It is also possible to define some main steams per area. Main streams have a default frequency of one hour and refer to indoor/outdoor temperature and consumption and production power. it is necessary to define this because serveral analytic packages make use of them so as to calculate the energy saving and waste compared with the calculated consumption baseline.
- Default main stream are declared by clicking on "Add stream" option as seen followingly:

ENTROPY	O Dackboard	the Account
DASHBOARD	Create an Outdoor Temperature Stream	×
Messages	SELECT SENSOR: openweathermap v	_
	SELECT SENSOR ATTRIBUTE:	_
LI Analytics	temperature	
Queries	humidity location pressure	Close
E Streams	timestamp	
Sensors	http://213.188.207.138:1026/v2/entities	
☑ Areas	FIWARE OCB * http://213.188.207.138:8666/STH/v1/contextEntities	
☐ Campaigns	nup.//213.106.207.136.0000/31H/V1/Contextentities	
	SENSORS	
? Help	openweathermap ×	
	MAIN STREAMS OUTDOOR TEMPERATURE Add Stream	
	Default Main Stream temperatureOutdoorSensor openweathermap	

• Upon successful editing, the modified area appears in the list.

5.3 Delete Building Area

- In order to delete a building area several consecutive steps have to be undertaken .
- Initially the user must login.

$\leftrightarrow \rightarrow \mathbf{C} \end{tabular}$ (i) hesso-entropy.euprojects.net/dashboard		९ ☆ :
ENTROPY	 Dashboard Account Admin Logout (entropy) 	<u>^</u>
🕰 Messages	DashBoArd DashDoard	
<u>لط</u> Analytics ی Queries	Statistics Weather Information on platform usage Weather information for Siene, VS	
Streams Sensors	7 55 27 16 Mestly Cloudy 78 % Areas Sersors Steams Uters -2 °C Humdhy -3 - 7 6.44 km/h -3 -7 -7 -6.44 km/h	
C Areas	55/876 3/94 91/963 54/559 Wind Quizzes Tasks Tgs Questions Connected Applications	
	Your apps profile overview Statistic View Ubars metrics Select your connected app	
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	Environmental Volationes, 0 0 0 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
hesso-entropy.euprojects.net/dashboard		-

• Click on "Areas" Menu-item.

① polo-entropy.euprojects.net/area	ENTROPY			S Dashboard	Account	∓ Admin	-⊒ Logout (entropy)
		/ AREAS					
	Analytics	Areas Area List			\odot	AREA HIERARC	THY + NEW AREA
 Analytic Queries 		٥_	Lotto 1 1150.0 m² / 11 people / Enterprise_Building	STREAMS	SENSORS	SUBAREAS	EDIT DELETE
	3 Streams		Heat Transfer Coefficient 3.6249 kW				
	Sensors	Q_	Lotto 2 800.0 m² / 40 people / Enterprise_Building	STREAMS	SENSORS	SUBAREAS	EDIT DELETE
E Ca	Campaigns		Heat Transfer Coefficient 1.5 kW				
?	Help	Q_	Lotto 3 90.0 m ² / 8 people / Enterprise_Building	STREAMS	SENSORS	SUBAREAS	EDIT DELETE
			Heat Transfer Coefficient 1.5 kW				

• Click on "DELETE" button.

C i Not secure hesso-entropy.euprojects	.net/area							Q
ENTROPY			Oashboard	Account	Ŧ Admin		← Logout (entropy)	
DASHBOARD	/ AREAS							
Messages	Areas			\odot	AREA HIERARO	HY	+ NEW AREA	
is Analytics	Area List							
🖏 Queries	Q_	iig_v2 3382.6 m² / 99 people / Enterprise_Building	STREAMS	SENSORS	SUBAREAS	EDIT		
E Streams								
Sensors		sierre	STREAMS	SENSORS	SUBAREAS	EDIT	DELETE	
l Areas		222.0 m ² / 11 people / Public_Building						
? Campaign Evaluation								

• Upon successful delete of the selected area, the area list will be modified.

CHAPTER 6

Synchronize sensors

6.1 Synchronize sensors

• In order to syncronize sensors of a given area, the user must click on "Areas" menu-item

ENTROPY			©	Dashboard	Account	∓ Admin		-⊐ Logout (entropy)
DASHBOARD	/ AREAS							
Analytics	Areas Area List				O	AREA HIERARO	ΗY	+ NEW AREA
 Analytics Queries 		chemistry 888.0 m ² / 66 people / University_Building		STREAMS	SENSORS	SUBAREAS	EDIT	DELETE
 Streams Sensors Areas 	Q_	fuentealamo 44.0 m ² / 44 people / Public_Building		STREAMS	SENSORS	SUBAREAS	EDIT	DELETE
☐ Campaigns? Help	Q.,	pleiades 260.0 m ² / 30 people / University_Building		STREAMS	SENSORS	SUBAREAS	EDIT	DELETE
		lanave 300.0 m² / 8 people / University_Building		STREAMS	SENSORS	SUBAREAS	EDIT	DELETE

• and then select the"SENSORS" option for a specific area.

ENTROPY		⊙ Dashboard	🔅 Account	∓ Admin	- Logout (entropy)
DASHBOARD	/ sensors / chemistry Sensors Manage Sensors			SYN	ICHRONIZE SENSORS
 Image: Analytics ✓ Queries 	Filter sensors (case sensitive)				
 E Streams Sensors 	322964003 energy_power_electricity ☑ chemistry			VIEW STREAMS	NEW STREAM
☑ Areas ☑ Campaigns	out_322964003 out_energy_power_electricity chemistry			VIEW STREAMS	NEW STREAM
? Help	-				
	322963190 hvac invac invac			VIEW STREAMS	NEW STREAM

• by clicking the "Synchronize Sensors" button Entropy engine aytomatically fetch all declared Fiware Sensors for the specific area. User can search for specific sensors via the search box on the top of the sensors list.

CHAPTER 7

Streams

7.1 Visualize streams

- In order to visualize a stream several consecutive steps have to be undertaken .
- Initially the user must login.

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ENTROPY	© Dashboard	✿ Account ∓ Admin -⊐ Logout (entropy)	▲
DASHBOARD	SHBOARD		
🙆 Messages	shboard		
	orm Overview		
Let Analytics	atistics	Weather	
🤣 Queries	iormation on platform usage	Weather information for Sierre, VS	
E Streams	55 27 16	Mostly Cloudy 78 %	
Sensors	eas Sensors Streams Users	-2 °C Humidity	
(b) Areas		-3 - 7 6.44 km/h Wind	
? Campaign Evaluation	5/876 3/94 91/963 54/559 izzes Tasks Tips Questions		
		Connected Applications	
		Your apps profile overview	
	ers metrics (pre) Energy conserva	Select your connected app	
	=	i	
	Consciousness in Energy-Sa 0 1 3 0 4 1 0		
	Energy Consumption Habit 1 2 2 0 3 1 0		
	Intention to use an app for e 0 2 1 6 3 3 0 2		
	Spillover Behaviours 0 2 1 6 4 2 0 Locus of Centrel 0 3 2 5 2 3 0		
	Energy Awareness 0 2 2 5 1 4 1	Applications	
	Environmental Personal Nor 0 0 2 5 2 5 1	Download our apps	
	Environmental Worldviews 0 0 0 7 8 0 0 6	Select an app	
	Behavioural Intentions 0 2 1 5 2 5 0		
	Self-Reported Behaviours 0 0 1 7 5 2 0 8 (0.1) (1.2) (2.3) (3.4) (4.5) (5.6) (6.7)		
hesso-entropy.euprojects.net/dashboard	ford ford ford ford ford ford		

• Click on "Streams" menu-item.

	ENTROPY							⊙ D	ashboa	rd 📀	Account	t 🔫 Admin	-그 Logout (entropy)	
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	Messages	Dashboard												
	Analytics	Platform Overview	Platform Overview											
	Queries	Statistics Information on platform us	age								Weather Weather information for Sierre, VS			
	E Streams	7 55			2	7			3		Me	ostly Cloudy	44 %	
	Sensors	Areas Sens	ors			eams		Users			2	°C	Humidity	
	e Areas									-7 - 5		0.00 km/h Wind		
	? Campaign Evaluation	0/0 0/78 Quizzes Tasks			5/86 Tips			0/0 Questions		one				
	r Campaign Evaluation	COLLEG TON							Co	onnected Applic	ations			
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		Consciousness in Energy-Sa	0		2	0	0	0	0					
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		Spillover Behaviours		1	1	0	0	0	0					
		Locus of Control	0	1	1	0	0	0	0	1				
h	/- h	Energy Awareness		_	1	0	0	0	0	1		oplications		
hesso-entropy.euprojects.net/	Stream	Environmental Personal Nor	0	0	1	1	0	0	0		Do	wnload our apps		

• The campaign manager can access the appropriate stream .

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ENTROPY	⊙ Dashboard 💿 Account 🐥 Admin -⊐ Logout (entropy)	
	Manage Sensors Streams test real-time:	
 Streams Sensors Areas 	Active Power in SAP REALTIME S97733cae7c4387c34a60464 / active_energy_consumption / sap_electricity / 10 minutes I ig_v2/ SAP	\$
? Campaign Evaluation	Campaign1_Window_Status REAL-TIME S9f2f9d1e7d4387c34a60412 / active_persons / dude_other / 1 minute G lig_v2 / DUDE	
	dude_door_open REALTIME S9/208bbe7/44387c34a603f3 / active_persons / dude_other / 1 minute ig_v2 / DUDE	
	Default Main Stream temperatureOutdoorSensor PAUSE GRAPH DELETE S9edt00aer7d4383c4a7c6ff8 / temperature_outdoor / Technopole / hour	

7.2 Start/stop stream

- In order to Start/stop a stream several consecutive steps have to be undertaken .
- Initially the user must login.

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ENTROPY	⊙ Dashboard o Account 🐺 Admin	A
DASHBOARD	/ DASHBOARD	
📾 Messages	Dashboard Platform Overview	
Let Analytics		
a Queries	Statistics Weather Information on platform usage Weather information for Sierre, VS	
E Streams	7 55 27 16 Mostly Cloudy 78 %	
Sensors	Areas Sensors Streams Users -2 °C Humidity	
E Areas	-3 -7 6.44 km/h Wind	
7 Campaign Evaluation	55/876 3/94 91/963 54/559 Quizzes Tasks Tips Questions Connected Applications You apps profile overview	
	Statistic View (pre) Energy conserva V Users metrics Select your connected app V	
	Energy Consumption Habit 1 2 2 0 3 1 0	
	Intention to use an app for e 0 2 1 0 3 3 0 2 Splitover Behaviours 0 2 1 0 4 2 0	
	Spiltover Behaviours 0 2 1 6 4 2 0 Locuis of Centrol 0 3 2 5 2 3 0	
	Energy Awareness 0 2 2 5 1 4 1 Applications	
	Environmental Personal Nor 0 0 2 5 2 5 1 Download our apps	
	Environmental Worldviews 0 0 0 7 8 0 0 6 Select an app	
	Behavioural Internations 0 2 1 5 2 5 0 Self-Reported Behaviours 0 0 1 7 5 2 0	
	(0.1) (1.2) (2.3) (3.4) (4.5) (3.0) (0.7)	
hesso-entropy.euprojects.net/dashboard		

• Click on "Streams" menu-item.

\leftarrow \rightarrow C (i) hesso-entropy	ppy.euprojects.net/stream		९ ☆ :
	ENTROPY	⊙ Deshboard	
	DASHBOARD	Sureams Manage Sensors Streams	
	Analytics	test REAL-TIME A Sa166/704e7/d4384da5ee0336 / humidity / polaris_environment / 1 minute PAUSE GRAPH DELETE	
	 Queries 		
	 Streams Sensors 	Active Power in SAP REALTIME A PAUSE GRAPH DELETE 59f733cae7d4387c34a60464 / active_energy_consumption / sap_electricity / 10 minutes	\$
	Areas Campaign Evaluation	C lig_v2 / SAP	
	7 Campaign Evaluation	Campaign1_Window_Status REALTIME A PAUSE GRAPH DELETE 59129d1e7d4387c34s60412 / active_persons / dude_other / 1 minute I iig_v2 / DUDE	
		dude_door_open REALTIME A PAUSE GRAPH DELETE 59/208bae7d4387c34a603f3 / active_persons / dude_other / 1 minute Iminute Iminute <td< td=""><td></td></td<>	
		Default Main Stream temperatureOutdoorSensor PAUSE GRAPH DELETE Technopole AGGREGATED A 59edb0aee7/d4383c4a7c8ff8 / temperature_outdoor / Technopole / hour	

• Click on "start" button to start a stream.

\leftrightarrow \rightarrow ${f C}$ () hesso-entropy.euprojects.net/stream		ବ 🕁 :
ENTROPY	⊙ Dashboard 🏠 Account 📮 Admin 🔄 Logout (entropy)	
DASHBOARD	/ STREAMS	
Messages	Streams	
LE Analytics	Manage Sensors Streams	
Queries	test REAL-TIME Ca 5a16c7c4c7d4384da5ec0336 / humidity / polaris_environment / 1 minute	
😝 Streams	€ iig_v2 / POLARIS	
⊚ Sensors		
🐑 Areas	Active Power in SAP REAL-TIME A PAUSE GRAPH DELETE 59f733cae7d4387c34a60464 / active_energy_consumption / sap_electricity / 10	
? Campaign Evaluation	minutes i iig_v2 / SAP	
	Campaign1_Window_Status REALTIME A PAUSE GRAPH DELETE 59f2f9d1e7d4387c34a60412 / active_persons / dude_other / 1 minute	
	€ iig_v2 / DUDE	
	GRAPH DELETE	
	59/208bae7d4387c34a603f3 / active_persons / dude_other / 1 minute iii iig_v2/ DUDE	
	Default Main Stream temperatureOutdoorSensor	

• Press the "pause" button to stom a stream.

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ENTROPY	⊙ Dashboard 🏠 Account 🚁 Admin -⊒ Logout (entropy)	Â
DASHBOARD	/ STREAMS Streams Manage Sensors Streams	
<u>⊾⊥</u> Analytics み Queries ■ Streams	test REAL-TIME Sa16c7c4e7/4384da5ee0336 / humidity / polaris_environment / 1 minute PALSE GRAPH DELETE Ilig_v2 / POLARIS	
 Sensors Areas Campaign Evaluation 	Active Power In SAP REALTIME SIGNAPH DELETE 59/733cae/d438/c34660464 / active_energy_consumption / sap_electricity / 10 minutes Iminutes Iminutes	
	Campaign1_Window_Status REALTIME SY12f9d1e7d4387c34a60412 / active_persons / dude_other / 1 minute G Mg_v2 / DUDE	
	dude_door_open REALTIME PAUSE GRAPH DELETE 59f208bae7/d4387c34a603f3 / active_persons / dude_other / 1 minute Iminute Iminute Iminute	
	Default Main Stream temperatureOutdoorSepsor	-

7.3 Visualize stream graph

- In order to Visualize stream graph several consecutive steps have to be undertaken .
- Initially the user must login.

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DASHBOARD	/ DASHBOARD					N			
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	Platform Overview								
La Analytics	Statistics							Weather	
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E Streams	7 55		27	7		16		Mostly Cloudy 78 %	
Sensors	Areas Senso	8	Stre	eams		Users	1	-2 °C Humidity	
E. Areas								-3 - 7 6.44 km/h Wind	
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	Intention to use an app for e Spillover Behaviours	0 2	1	•			2		
	Locus of Control	0 3	_		2 3	0			
	Energy Awareness	0 2	2	•	4	1	4	Applications	
	Environmental Personal Nor	• •		_				Download our apps	
	Environmental Worldviews Behavioural Intentions	0 0		7			6	Select an app 🔻	
	Self-Reported Behaviours			7					
		(0,1] (1,2	_				8		
hesso-entropy.euprojects.net/dashboard									

• Click on "Streams" menu-item.

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DASHBOA	ARD /	/ DASHBOARD														
Mess	ssages	Dashboard														
		Platform Overview														
Lat Analy	hytics	Statistics										Weat	ther			
Quer	eries	Information on platform usage								Weather information for Sierre, VS						
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⊚ Sens	~~~~~	7 Areas	55 Sensor			27 Stre			3	sers		Mostly Cloudy			% midity	
		Arcus	0011301	3			uma	1115 0		Users		2 °C -7 - 5			0.00 km/h	
Area	85				5/86 Tips					Wind						
? Camp	npaign Evaluation	0/0 Quizzes	0/78 Tasks				0/0 Questions			ons						
												Connected Applications				
												Your apps profile overview				
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		Users metrics										Joer	ect your conne	cieu app	, ,	
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		Consciousness in Ener Energy Consumpti		0	0	2	-	0 0 0 0	-	_					_	
		Intention to use an app		0		_	-	0 0	-	-	0.5					
		Spillover Bel	haviours	0	1	1	0	0 0	C							
		Locus of		0		_		0 0	-		1					
hesso-entropy.euprojects.net/stream		Energy Aw Environmental Person		0	1	_	_	o o o o	-				ications load our apps			

• Press on "graph" button on the desired stream.

\leftrightarrow \rightarrow C (i) hess	o-entropy.euprojects.net/stream		Q
	ENTROPY	⊙ Dashboard 🏠 Account 🐥 Admin -⊐ Logout (entropy)	
	DASHBOARD		
	Let Analytics	CO2 In DUDE REALTIME A PAUSE GRAPH DELETE 59cbabc8e7d43805638bd66f / co2 / dude_environment / 10 minutes @ iig_v2 / DUDE	
	E Streams © Sensors	Temperature in DUDE REALTIME PAUSE GRAPH DELETE S9cbaba8e7d43805638bd66e / temperature / dude_environment / 10 minutes III III_1/2 / DUDE DUDE	
	Areas Compaign Evaluation	Active Power in Dude REALTIME Social/Social/Socials and Active_power / dude_electricity / 10 minutes Social/Social/Socials and Active_power / dude_electricity / 10 minutes Display 2 / DUDE	
		Humidity in Polaris REAL-TIME PAUSE GRAPH DELETE S9cbab0ee7d43805658bd66c / humidity / polaris_environment / 10 minutes PAUSE GRAPH DELETE	
		CO2 in Polaris REALTIME A Socbase1e7d43805638bd66b / co2 / polaris_environment / 10 minutes Ig_v2 / POLARIS	
so-entropy.euproj	jects.net/stream/59cbab75e7d438056	38bd66d/measurement	

• Upon successful selection, the desired stream graph can be viewed.

$\leftarrow \rightarrow \mathbf{C}$ (i) hesso-entropy.euprojects.net/stream/59edb0a	ee7d4383c4a7c8ff8/measurement	२ ☆ :
💌 ENTROPY	⊙ Deshboard 🍐 Account 🔺 Admin -⊒ Logout (entropy)	
DASHBOARD Messages <u>Ma</u> Analytics	/ STREAMS / TECHNOPOLE / MEASUREMENT	
 ₃ Queries E Streams ⊚ Sensors ☑ Areas ? Campaign Evaluation 	Default Main Stream temperatureOutdoorSensor Technopole Benor Name: Technopole - Ana Arante: seres	
	4	

7.4 Create a new stream from a specific sensor

- In order to create a new stream from a specific sensor several consecutive steps have to be undertaken .
- Initially the user must login.

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Message Message Dabboard Message Extent Council Definition Definition Definition Definition <th></th> <th>🗹 ENTROPY</th> <th>🕤 Dashboard 🍙 Account 📮 Admin 🔄 Logout (entropy)</th> <th></th>		🗹 ENTROPY	🕤 Dashboard 🍙 Account 📮 Admin 🔄 Logout (entropy)	
Image: Comparison for Statistic View		DASHBOARD	/ DASHBOARD	
Image: Image		🙆 Messages		
A Guerrie Intermation on platform target Intermation		ul Analytics		
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Local of Carleto 0 0 2 2 0 2 1 0 Damps Avenesa 0 2 2 5 1 0 1 0 0 Extense of Markowski 0 0 0 1 7 0 0 0 Banacord Stretowski 0 0 1 7 5 2 0 Banacord Stretowski 0 0 1 7 5 2 0				
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Behavioural Intentions 0 2 1 5 2 5 0 Sold-Reported Extensions 0 0 1 7 7 2 0			Environmental Personal Nor 0 0 2 5 2 5 1 Download our apps	
Sel Reporter Environment			Select an app	
			(0,1] (1,2] (2,3] (1,4] (4,5] (5,0] (0,7] 8	

• Click on "Sensors" Menu-item.

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ENTROPY							©	Dashbo			Account 🔻 Admin - Logout (entropy)		^
DASHBOARD	Quizzes Tasks			Πp	IS			Ques	stions	5	Connected Applications Your apps profile overview		
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E Streams	Energy Consumption Habit	0	1	1	0	0	0	0					
	Intention to use an app for en	0	1	1	o	0	o	0		0.5			
3	Spillover Behaviours	o	1	1	0	o	o	0					
@ Areas	Locus of Control	0	1	1	0	0	0	0		1			
	Energy Awareness	0	1	1	0	0	0	0			Applications		
? Campaign Evaluation	Environmental Personal Norms	0	0	1	1	0	0	0			Download our apps		
	Environmental Worldviews Behavioural Intentions	0	1	1	2	0	0	0		1.5	Select an app		
	Self-Reported Behaviours	0	•	1	1	0	0	0					
			(1,2]		(3,4]	(4,5]	(5,6]			2			
									Highch	arts.com			
hesso-entropy.euprojects.net/sensor													-

• Click on "New Stream" button.

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ENTROPY		⊙ Dashboard	🖨 Account 🔫	Admin	+ Logout (entropy)	
DASHBOARD	Sierre0 WeatherForecas	st	VIEW	STREAMS	NEW STREAM	
iul Analytics ⊉ Queries E Streams	Sierre1 WeatherForecas	st	VIEW	STREAMS	NEW STREAM	
 Sensors Areas Campaign Evaluation 	Sierre10 WeatherForecas	st	VIEW	STREAMS	NEW STREAM	
	Sierre11 WeatherForecas	st	VIEW	STREAMS	NEW STREAM	
	Sierre12 WeatherForecas Sierre	ज	VIEW	STREAMS	NEW STREAM	

• Provide new data streams details such us (Real Time or Aggregated data monitoring, sensor attribute, Description etc).

igstarrow igstarro	.net/sensor/add/Sierre11	९ ☆ :
ENTROPY	⊙ Dashboard 🗘 Account 🔻 Admin +⊒ Logout (entropy)	A
 ► NTROPY DASHBOARD Messages Message	Count Admin C Account Admin C Logouit (entropy)	
	DESCRIPTION Sensor Data Stream Friendly Name SELECT SENSOR ATTRIBUTE: wind_speed_10m MAP TO SEMANTIC MODEL ENTITY: temperature	

• Click on "Add Stream" button.

ENTROPY		
	⊙ Dashboard 🌩 Account 🔻 Admin -⊒ Logout (entropy)	
DASHBOARD	Real Time Data Monitoring Aggregated Data Monitoring	
년 Analytics 3 Queries E Streams ⓒ Sensors 단 Areas	DESCRIPTION Sensor Data Stream Friendly Name SELECT SENSOR ATTRIBUTE: wind_speed_10m • MAP TO SEMANTIC MODEL ENTITY: temperature •	
? Campaign Evaluation	SELECT UNIT OF MEASURE: celcius SELECT TIME ATTRIBUTE: SELECT SAMPLE FREQUENCY: 1 minute ADD STREAM	

• Upon successful declaration, the new stream appears in sensor management list.

7.5 View streams generated by a sensor

- In order to view streams that generated by sensor several consecutive steps have to be undertaken .
- Initially the user must login.

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ENTROPY	O Dathbaard O Account	▲
DASHBOARD	/ DASHBOARD	
i Messages	Dashboard	
	Platform Overview	
<u>⊾</u> Analytics	Statistics Weather	
Queries	Information on platform usage Weather information for Sierre, VS	
E Streams	7 55 27 16 Mostly Cloudy 78 %	
Sensors	Areas Sensors Streams Users -2 °C Humidity -3 -7 6.44 km/h	
I. Areas	Wind	
? Campaign Evaluation	55/876 3/94 91/963 54/559 Quizzes Tasks Tips Questions	
r Campaign Evaluation	Connected Applications	
	Your apps profile overview	
	Statistic View (pre) Energy conservar V Users metrics Select your connected app V	
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	Energy Consumption Habit 1 2 2 0 3 1 0 Intention to use an app for e 0 2 1 0 3 3 0 2	
	Internation to ope an approx e 0 2 1 0 3 3 0 2 Splitover Behaviours 0 2 1 6 4 2 0	
	Locus of Control 0 3 2 5 2 3 0	
	Energy Asserences 0 2 2 5 1 4 1 Applications	
	Environmental Personal Nor 0 0 2 5 2 5 1 Download our apps	
	Environmenta Wondexis 0 0 0 1 1 5 2 5 0 5 Select an app	
	Self-Reported Behaviours 0 0 1 7 5 2 0	
	(0.1] (1.2] (2.3] (1.4] (4.5) (5.0] (0.7]	
hesso-entropy.euprojects.net/dashboard		.

• Click on "Sensor" menu-item.

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🔄 ENTROPY							©	Dashbo	bard) • • ·	Account 📮 Admin 🚽 Logout (entropy)
DASHBOARD	Quizzes Tasks			Пр	IS			Ques	tions	•	
											Connected Applications Your apps profile overview
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Analytics	Statistic View Users metrics					(pre)	Ener	gy con	serva	ati 🔻	Select your connected app
	Users metrics										
Queries										.■	
E Streams	Consciousness in Energy-Sa Energy Consumption Habit	0	0	2	0	0	0	0 0			
	Intention to use an app for en	0	1	1	0	0	0	0		0.5	
⊚ Sensors	Spillover Behaviours	0	1	1	0	0	0	0			
Areas	Locus of Control	0	1	1	0	0	0	0		1	
	Energy Awareness	0	1	1	0	0	0	0		1	Applications
? Campaign Evaluation	Environmental Personal Norms	0	0	1	1	0	0	0			Download our apps
	Environmental Worldviews Behavioural Intentions	0	0	0	2	0	0	0		1.5	Select an app 🔹
	Self-Reported Behaviours	0	0	1	1	0	0	0			
		(0,1]	(1,2]	(2,3]	(3,4]	(4,5]	(5,6]	(6,7]		2	
									Highche	arts.com	

• Press the "view streams" button.

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DASHBOARD		Sierre9 WeatherForecast Sierre			VIEW STREAMS	NEW STREAM		l
QueriesEl Streams		Technopole WeatherObserved Isierre			VIEW STREAMS	NEW STREAM		ļ
 Sensors Areas Campaign Evaluation 		common_electricity electricity I lig_v2			VIEW STREAMS	NEW STREAM		
		common_energy energy I lig_v2			VIEW STREAMS	NEW STREAM		
hesso-entropy.euprojects.net/stream/sensor/Technopole	0	common_energy_2 energy I iig_v2			VIEW STREAMS	NEW STREAM		Ŧ

• The campaign manager can access the appropriate stream.

igstarrow igstarro	et/stream/sensor/Technopole	९ ☆ :
ENTROPY	⊙ Dashboard 🌩 Account ∓ Admin -⊐ Logout (entropy)	
DASHBOARD	/ STREAMS	
🖄 Messages	Streams Manage Sensors Streams	
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© Areas		
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CHAPTER 8

Queries

8.1 Create a new query

- In order to create a new query several consecutive steps have to be undertaken.
- Initially the user must be login.

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	Energy Awareness 0 2 2 5 1 4 1	Applications	
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• Click on "Queries" menu-item.

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e. Areas	get all uses that are enganged in apps				✓ 10
? Campaign Evaluation					

• Click on "New Query" button.

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• Provide now query details such us (Observation Values from data sensor streams, User, Etc)

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? Campaign Evaluation			

• Click on "Save Query" button.

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0. Areas	SAVE QUERY Reset					
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• Upon successful addition, the new query appears in list.

8.2 Edit a query

- In order to edit a query, several consecutive steps have to be undertaken.
- Initially the user must be login.

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• Click on "Queries" menu-item.

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	• Areas	get all uses that are enganged in apps				<b>x</b> û	
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• Click on edit button(pencil item).

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e Areas	get all uses that are enganged in apps				<b>/</b> û	
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• Click on "Update Query" button.

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• The selected query has been updated.

### 8.3 Execute a query

- In order to execute a query, several consecutive steps have to be undertaken.
- Initially the user must be login.

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• Click on "Queries" menu-item.

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• Click on "Run Query" button.

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• The selected query has been executed.

8.4 Delete a query

- In order to delete a query, several consecutive steps have to be undertaken.
- Initially the user must be login.

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• Click on "Queries" menu-item.

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• Click on delete Query button.

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• The selected query has been deleted.

CHAPTER 9

Analytics

9.1 Algorithm

Register a new algorithm

- In order to register a new algorithm several consecutive steps have to be undertaken .
- Initially the user must login.

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	Locus of Control 0 3 2 5 2 3 0 Energy Awareness 0 2 2 5 1 4 1	
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• Click on "Analytics" menu-item.

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• Click on "Algorithms" button.

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• Click on "New Algorithm" button.

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• Provide new algorithm details.

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• Click on "Save" button.

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	text	•				
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	4					

• You have successfully create new algorithm.

View a registered algorithm

- In order to view a registered algorithm several consecutive steps have to be undertaken .
- Initially the user must login.

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• Click on "Analytics" menu-item.

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• Click on "Algorithms" button.

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• Click on View button(eye object).

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• The registered algorithm details appears in the platform.

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Delete an algorithm

- In order to delete a registered algorithm several consecutive steps have to be undertaken .
- Initially the user must login.

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• Click on "Analytics" menu-item.

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• Click on "Algorithms" button.

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• Click on delete button (bin object).

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• You have successfully delete the selected algorithm.

9.2 Algorithm Template

Create a new algorithm template

- In order to create a new algorithm template consecutive steps have to be undertaken .
- Initially the user must login.

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• Click on "Analytics" menu-item.

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• Click on "Templates" button.

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• Click on "New Template" button.

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• Provide custom analytic process template details.

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• Click on "Save" button.

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• You have successfully create new algorithm template.

View an algorithm template

- In order to view an algorithm template several consecutive steps have to be undertaken .
- Initially the user must login.

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• Click on "Analytics" menu-item.

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• Click on "Templates" button.

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• Click on "VIEW" button.

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• The registered algorithm template appears in the platform.

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Delete an algorithm template

- In order to delete an algorithm template several consecutive steps have to be undertaken .
- Initially the user must login.

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• Click on "Analytics" menu-item.

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• Click on "Templates" button.

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• Click on DELETE button.

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• You have successfully delete the selected algorithm template.

Execute an algorithm template

- In order to execute an algorithm template several consecutive steps have to be undertaken .
- Initially the user must login.

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• Click on "Templates" button.

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• Click on RUN button.

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• You have successfully execute the selected algorithm template.

9.3 Analytic process

View an analytic process

- In order to view an algorithm template several consecutive steps have to be undertaken .
- Initially the user must login.

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• Click on "Analytics" menu-item.

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• Click on "Reports" button.

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• Click on View button(eye object).

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• The analytic process results appear in platform.

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? Campaign Evaluation	EXECUTION INFO:	

Delete an analytic process

- In order to delete an analytic process several consecutive steps have to be undertaken .
- Initially the user must login.

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• Click on "Analytics" menu-item.

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• Click on "Reports" button.

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• Click on DELETE button(Bin object).

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• You have successfully delete the selected analytic process.

CHAPTER 10

Messages

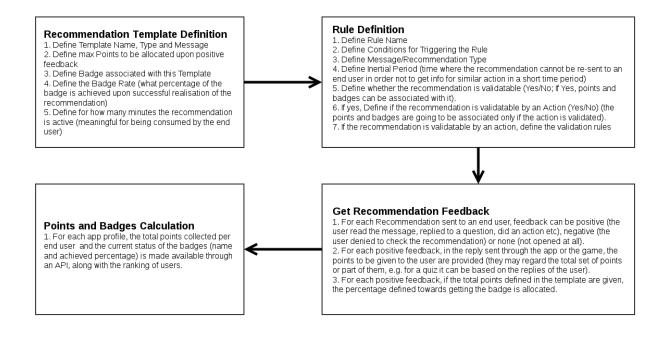
Via the Messages menu tabs you can orchestrate the conditions upon which the personalized recommendations are triggered.

In short, during the definition of a recommendation template, the campaign manager is able to declare the points to be given to the end user as well as the associated badge (if any) and the percentage of the badge to be received. The percentage of the badge is given only if the total points associated with this recommendation are given to the end user.

Then, in the definition of rules for triggering the sending of a recommendation, the campaign manager is able to define whether the recommendation is validatable or not as well as if it is validatable by an action. In the last case, rules for validation have also to be provided.

Upon the consumption of the recommendations, during the receipt of feedback messages, the set of points to be allocated to the user are provided by the apps through an API. Then, calculation of total score, ranking and percentage of badges achieved is also made available trhough an API.

The following figure shows the overall process.



10.1 View list of generated recommendation messages

- In order to view the list of generated recommendation messages several consecutive steps have to be undertaken
- Initially the user must login.

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• Click on "Messages" menu-item.

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• The generated recommendation messages appear in platform.

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10.2 Recommendation Template

Create a new recommendation Template

- In order to create a new recommendation template several consecutive steps have to be undertaken .
- Initially the user must login.

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• Click on "Messages" menu-item.

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• Click on "Templates" button.

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• Click on "New Template" button.

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• Provide recommendation template details such us (friendly name,type,message, etc.)

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• Click on "SAVE" button.

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• You have successfully create a new recommendation template.

Edit a recommendation Template

- In order to edit a recommendation template several consecutive steps have to be undertaken .
- Initially the user must login.

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• Click on "Messages" menu-item.

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• Click on "Templates" button.

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• Click on edit button(pencil object).

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	Test Tip	Testing tip	/ ū	
	TestTip TIP	The air quality can become better. Open the windows for 5 minutes to freshen the atmosphere TestTip	✓ û	

• Provide recommendation template details such us (friendly name,type,message, etc.)

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• Click on "SAVE" button.

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• You have successfully edit the selected recommendation template.

Delete a recommendation Template

- In order to delete a recommendation template several consecutive steps have to be undertaken .
- Initially the user must login.

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• Click on "Messages" menu-item.

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• Click on "Templates" button.

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	Question resta	** (pages : if elements : if type : radiogroup , choices : if value : i , "text": "Excellent", "correct": "1", if value: "2", "text": "Very Good"), { "value": "3", "text": "Good"), { value": "4", "text": "Fair"), { value": "5",	и и
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		"Because furniture can get burnt" }, ('value'; '3', 'text': 'Because radiators will get damaged and may even need replacing after some time '}, 'name': 'Why is it unvise to block your radiators by placing furniture very close to them?' }, 'name': 'Go easy on heating' }, 'title': 'Go easy on heating' }	
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y.euprojects.net/recommendations/	TestTip TIP	The air quality can become better. Open the windows for 5 minutes to freshen the atmosphere TestTip	▲ û

• Click on delete button(bin object).

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• You have successfully delete the selected recommendation template.

View list of recommendation Template

- In order to view a recommendation template list several consecutive steps have to be undertaken.
- Initially the user must login.

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• Click on "Messages" menu-item.

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	<pre>tatem to the set of the set</pre>

• Click on "Templates" button.

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• The recommendation template list appear in platform.

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r Campaign Evaluation		radiators will get damaged and may even need replacing after some time ")], "name": "Why is it unwise to block your radiators by placing furniture very close to them?"]], "name": "Go easy on heating")], "title": "Go easy on heating" }		
	Test Tip TIP	Testing tip	▲ 1	
	TestTip TIP	The air quality can become better. Open the windows for 5 minutes to freshen the atmosphere TestTip	▲ 1	
	Air Quality TASK Low/Refresher/Open	The air quality can become better. Open the windows for 2 minutes to freshen the atmosphere	▲ 1	

10.3 Recommendation Rule

Create a new Recommendation Rule

- In order to create a new recommendation rule several consecutive steps have to be undertaken .
- Initially the user must login.

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P Campaign Evaluation	55/876 3/94 91/963 54/559 Cotores Tests Tips Questions Connected Applications	
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• Click on "Messages" menu-item.

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• Click on "Recommendation rules" button.

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	testTipPointsDontDeleteMe		✓ 10	
	task_window_co2_dudelab	ENABLED	/ ū	
	TipsTestReadUnread2	ENABLED	✓ 10	
	TipsTestReadUnread	ENABLED	✓ 10	

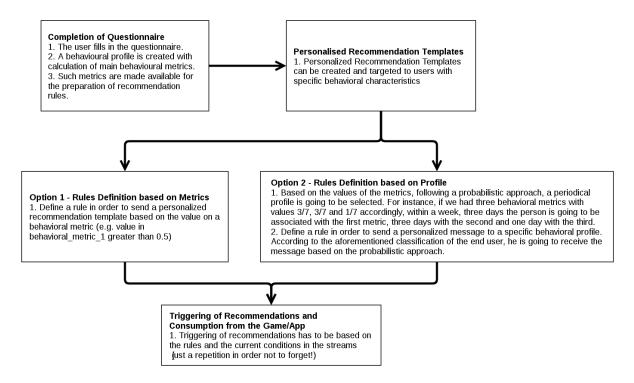
• Click on "New Rule" button.

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	TipsTestReadUnread2	ENABLED	✓ 亩
sso-entropy.euprojects.net/recommendatior			

• Provide rules details such us (description,target users,etc.)

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<u>∎</u> Analytics	DESCRIPTION	
E Streams	Recommendation Rule short Description	
) Sensors	And the V Add group	
? Campaign Evaluation	TARGET USERS AND OR Add rule • Add rule • Add group X Delete	
	TARGET AREAS	

Defining the target users conditions can make the recomendation messages be personalized. End users demografic data, their behavioural properties and their responsiveness to previous recommendations are some of the conditions that may afect the recommendation send to them. Following figure depicts the workflow towards generating personalized content.



The property "hasSelfDeterministicMotivation" fits the option 2 of the above figure. Each user has a percentage of intrisic and extrinsic motivation. For example "user A" can be 20% intrinsic and 80% extrinsic. This means that will receive an intrinsic message with a probability of 20% and an extrinsic with a propability of 80%. If the users receives 10 messages it is very probable to get 2 Intrinsic messages and 8 Extrinsic.

• Click on "SAVE" button.

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J Queries	TARGET AREAS					
E Streams				+ A	dd rule 💿 Add group	
Sensors						
0. Areas	MESSAGE TEMPLATE SELECT MESSAGE TYPE					
? Campaign Evaluation	Select type	T				
	SELECT INERTIA PERIOD 30 minutes	Ŧ				
	SAVE Reset					

• You have successfully create a new recommendation rule.

Edit a Recommendation Rule

- In order to edit a recommendation rule several consecutive steps have to be undertaken .
- Initially the user must login.

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		Consciousness in Energy-Sa Energy Consumption Habit Intention to use an app for e Spilover Behavious Locus ef Combril	2 2 8 3 2 1 6 3 2 1 6 4	1 0 3 0 2 0	_	
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• Click on "Messages" menu-item.

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	tzafeir	QUIZZ	('pages': [['elements': [['type': 'ra 'text': 'Because furniture absorb a l heating performance in the room', 'Because furniture can get burnt'), radiators will get damaged and may time ')], 'name': 'Why is it unvise to furniture very close to them'')], 'na 'title': 'Go easy on heating')	ot of the heat and reduce the correct": "1"), { "value": "2", "tex { "value": "3", "text": "Because y even need replacing after son o block your radiators by placin	t": ne	08:07:23 UTC 2017

• Click on "Recommendation rules" button.

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nesso-entropy.euprojects.net/recommendations/	TipsTestReadUnread2 TipsTestReadUnread	ENABLED O	》 û 》 û	

• Click on edit button(pencil object).

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	TipsTestReadUnread ENABLED 🔿 🖍 🛍	

• Provide rules details such us (description,target users,stream conditions,etc.)

\leftarrow \rightarrow C (i) hesso-entropy.euprojects.net/recomm	ndations/rule/edit/5a1e7438e7d4383f6f6a7159	☆ :
ENTROPY	⊙ Dashboard 🏼 🚓 Account 📮 Admin 🔄 Logout (entropy)	
🔄 Messages	RULES / EDIT ← Rules Edit Rule	
<u>⊫∎</u> Analytics る) Queries	ARVRtest	
E Streams	STREAM CONDITIONS	
? Campaign Evaluation	Z200 TARGET USERS	
	Person.isLocatedIn equal DUDE TARGET AREAS AND OR Add rule Add rule Add rule Add group	

• Click on "UPDATE" button.

ENTROPY	ommendations/rule/edit/5a1e7438e7d4383f6f6a7159 ⓒ Dashboard 💠 Account 🛛 ¥ Admin	- Logout (entropy
DASHBOARD	Person.isLocatedIn v equal v DUDE v	🕚 🗙 Delete
L∎ Analytics		+ Add rule • Add group
E Streams	MESSAGE TEMPLATE	
Sensors	SELECT MESSAGE TYPE	
•. Areas	Task	
	SELECT MESSAGE TEMPLATE	
? Campaign Evaluation	Air Quality Good /Refresher/Close the door	
	SELECT INERTIA PERIOD	
	30 minutes	
	UPINTE Reset	

• You have successfully update a recommendation rule.

Delete a Recommendation Rule

- In order to edit a recommendation rule several consecutive steps have to be undertaken .
- Initially the user must login.

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ENTROPY	Datiboard Account Admin -j Logout (entropy)	Î
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	Image Number 0 2 2 3 1 4 1 Environment Provide Num 0 0 2 3 1	
hesso-entropy.euprojects.net/dashboard		-

• Click on "Messages" menu-item.

→ C ③ hesso-entropy.euprojects.net/record	ommendations		
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E Streams	Recipient	Message	
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Areas	tzafeir QUESTI	08 {'pages'; {{ 'elements'; {{ 'type'; 'radiogroup', 'choices'; {{ 'value'; '1', 'text'; 'Excellent'; 'oorrect'; '1'), ('value'; '2', 'text'; 'Very Good'), { 'value'; '3', 'text'; 'Good'), {'value'; '4', 'text'; 'Fair'), {'value'; '5', 'text'; 'Poor'),], 'name'; 'In general, would you say your health is?'	Wed Nov 29 08:07:23 UTC 2017
? Campaign Evaluation)], "name": "Health Status3")], "title": "Health Status3")	
	tzafeir TIP	Testing tip	Wed Nov 29 08:07:23 UTC 2017
	tzəfeir QUIZZ	('pages' [('elements': [('type': 'radiogroup', 'choices'; [('value'; 'r', 'fext': 'Because furniture absorb a lot of the heat and reduce the heating performance in the room', 'correct': 'r'), ('value'; '2', 'text': 'Because furniture can get burn'), ('value'; '2', 'text': 'Because radiators will get damaged and may even need replacing fater some time ')], 'name': 'Why is it unvise to block your radiators by placing furniture very close to them?')], 'name'. 'Go easy on heating')], 'title': 'Go easy on heating').	Wed Nov 29 08:07:23 UTC 2017

• Click on "Recommendation rules" button.

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sso-entropy.euprojects.net/recommendations,	TipsTestReadUnread2 TipsTestReadUnread /rulelist	ENABLED O	/ 血 / 血	

• Click on delete button (bin object)

\leftrightarrow \rightarrow C (i) hesso-entropy.euprojects.net/record	nmendations/rulelist	☆
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	task_window_co2_dudelab ENABLED * û TipsTestReadUnread2 ENABLED * û	
	TipsTestReadUnread	

• You have successfully delete a recommendation rule.

Enable/Disable a Recommendation Rule

- In order to Enable/Disable a Recommendation Rule several consecutive steps have to be undertaken .
- Initially the user must login.

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7 Campaign Evaluation	Jup rol Jran 91,900 Jay (Jay) Cutotes Task Tep Ouncted Applications Statistic View (pre) Energy conservar V	
	Users metrics 0 1 3 6 1 0 1 <	
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hesso-entropy.euprojects.net/dashboard		

• Click on "Messages" menu-item.

→ C ③ hesso-entropy.euprojects.net/record	ommendations		
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DASHBOARD	/ MESSAGES		
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Analytics	🗖 Inbox 🗎 Templates	♀ ズ Recommendation Rules	
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E Streams	Recipient	Message	
⊚ Sensors	VSChule	The air quality can become better. Open the windows for 2 minutes to freshen the atmosphere	Wed Nov 29 08:07:23 UTC 2017
Areas	tzafeir QUESTI	08 {'pages'; {{ 'elements'; {{ 'type'; 'radiogroup', 'choices'; {{ 'value'; '1', 'text'; 'Excellent'; 'oorrect'; '1'), ('value'; '2', 'text'; 'Very Good'), { 'value'; '3', 'text'; 'Good'), {'value'; '4', 'text'; 'Fair'), {'value'; '5', 'text'; 'Poor'),], 'name'; 'In general, would you say your health is?'	Wed Nov 29 08:07:23 UTC 2017
? Campaign Evaluation)], "name": "Health Status3")], "title": "Health Status3")	
	tzafeir TIP	Testing tip	Wed Nov 29 08:07:23 UTC 2017
	tzəfeir QUIZZ	('pages' [('elements': [('type': 'radiogroup', 'choices'; [('value'; 'r', 'fext': 'Because furniture absorb a lot of the heat and reduce the heating performance in the room', 'correct': 'r'), ('value'; '2', 'text': 'Because furniture can get burn'), ('value'; '2', 'text': 'Because radiators will get damaged and may even need replacing fater some time ')], 'name': 'Why is it unvise to block your radiators by placing furniture very close to them?')], 'name'. 'Go easy on heating')], 'title': 'Go easy on heating').	Wed Nov 29 08:07:23 UTC 2017

• Click on "Recommendation rules" button.

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		TipsTestReadUnread2			
hesso-entropy.	.euprojects.net/recommendations/r	TIpsTestReadUnread ENABLED *			

• Slide the bar to the left in order to disable a recommendation rule.

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	TipsTestReadUnread2	DISABLED			
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• Slide the bar to the right in order to enable a recommendation rule.

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Rule is succesfully activated $\qquad >$	TipsTestReadUnread2	

CHAPTER 11

Campaigns

11.1 Create a new Campaign

- In order to create a new campaign several consecutive steps have to be undertaken .
- Initially the user must login.

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	Spillover Bet			6 4						
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e. Areas					
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• Click on "New Evaluation" button.

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hesso-entropy.euprojects.net/evaluation/add							

• Provide new Campaign details and click on "SAVE" button.

igstarrow igstarro	pjects.net/evaluation/add	☆ :
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• Upon successful declaration of the new campaign the list of campaign evaluation will be update it.

11.2 Edit a Campaign

- In order to edit a Campaign several consecutive steps have to be undertaken .
- Initially the user must login.

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a Areas				-3 - 7 0.44 KII/II Wind	
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7 Campaign Evaluation				Connected Applications	
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	Locus of Control	0 3 2 5 2	3 0 4		
	Energy Awareness	0 2 2 5 1	4 1	Applications	
	Environmental Personal Nor Environmental Worldviews	0 0 2 5 2 0 0 0 7 8		Download our apps	
	Behavioural Intentions	0 2 1 5 2		Select an app	
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• Press the "edit" button (pencil object).

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E Streams	Campaign	Wed Nov 29 00:00:00 UTC 2017	Thu Nov 30 00:00:00 UTC 2017	0 / 11	
Sensors					N2
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? Campaign Evaluation					

• Upon successful editing of the campaign , the list of declare campaigns will be update it.

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11.3 Delete a Campaign

- In order to delete a Campaign several consecutive steps have to be undertaken .
- Initially the user must login.

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😨 Areas	-3 - 7 6.44 km/h Wind	
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l. Areas						
? Campaign Evaluation						
tropy.euprojects.net/evaluation						

• Press on "delete" button on the desired campaign.

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 Messages ▲ Analytics Queries Current time: Wed Nov 29 14:03:27 UTC 2017 Current time: Wed Nov 29 14:03:27 UTC 2017 Current time: Wed Nov 29 00:00:00 UTC 2017 Thu Nov 30 00:00:00 UTC 2017 0/11
Image: Analytics Image: Ourrent time: Wed Nov 29 14:03:27 UTC 2017 Image: Campaign Start Date Image: Campaign Image: Campaign
⊗ Sensors ► Areas
? Campaign Evaluation

• Upon successful deletion of a desired campaign the list of campaigns will be update it.

$igodoldsymbol{\in}$ $igodoldsymbol{\ominus}$ $igodoldsymbol{O}$ Not secure hesso-entropy.eupro	ects.net/evaluation					☆ :
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11.4 View a Campaign

- In order to delete a Campaign several consecutive steps have to be undertaken .
- Initially the user must login.

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		Platform Overview							
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	Areas						-3 - 7 6.44 km/h Wind		
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		Energy Consumption Habit	1 2	2 6 3	1 0				
		Intention to use an app for e		1 0 3		2			
		Spillover Behaviours		1 6 4					
		Locus of Control Energy Awareness		2 5 2	3 0 4 1	4			
		Environmental Personal Nor		2 3 2	5 1		Applications Download our apps		
		Environmental Worldviews	0 0	0 7 8	0 0	0	Select an app		
		Behavioural Intentions		1 5 2					
		Self-Reported Behaviours		1 7 5		8			
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o-entropy.euprojects.net/evaluation						

• Press on "view" button (eye object) on the desired campaign.

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Messages Campaign Evaluations Campaign Evaluations Campaign Evaluations	TION
Analytics Querles Querles Querles	
Campaign Start Date End Date Submissions	
■ Streams New Wed Nov 29 00:00:00 UTC 2017 Thu Nov 30 00:00:00 UTC 2017 0 / 11	ŵ
Sensors	
e Areas	
? Campaign Evaluation	

• You can review campaign statistics such us user metrics, work engagement, etc.

 Not secure hesso-entropy.eup 	rojects.net/evaluation/5a1ebd6ee7d4383f6f6a726	e1/results								
ENTROPY			⊙ Da	shboard	🏠 Acc	ount	∓ Admin	e u	ogout (entropy)	
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E Streams					Energy conservation behaviours at work Perceived effectiveness Work engagement					
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M VIG89	Social Influence	0	0	0	0	0	0	0		
? Campaign Evaluation	Performance Expectancy	0	0	0	0	0	0	0		
	Playfulness	0	0	0	0	0	0	0	0	
	Effort Expectancy	0	0	0	0	0	0	0		
	Hedonic Motivation	0	0	0	0	0	0	0		
	Continued Use Intention	0	0	0	0	0	0	0		
	Attitude	0	0 (1,2]	0	0 (3,4]	0 (4,5]	0	0 (6,7]		

CHAPTER 12

Indices and tables

- genindex
- modindex
- search