EUROPEAN TRACKING NETWORK



Tracking aquatic animals at a pan-European scale







Getting your STRAITS data into the ETN data platform

STRAITS STAFF TRAINING 17/10/2023

RESEARCH · COMM







EUROPEAN TRACKING NETWORK –

Our mission is to track aquatic animals across Europe to better understand, protect and manage them.

ETN - website & data platform





EUROPEAN TRACKING NETWORK

Our mission is to track aquatic animals across Europe to better understand, protect and manage them.

ETN portal dataflow





Getting started

Uploading data

Shiny app



• Different context = different metadata groups and fields









PROJECTS

DETECTIONS

METADATA





Shiny app

REGISTER PROJECTS

Please fill up the project template...

M = Mandatory, O = Optional	Field	Subfield		Guidelines
			BASIC PROJECT INFO	
٨	Project Type			Indicate project type. More information about projects in ETN can be found here: https://europeantrackingnetwork.org/en/1-etn-structure-and-concepts
I	Person providing the metadata	name		Name and ORCID-ID (if any) of person providing this metadata record
	Talanata Tura	ORCID-ID		The base of the base based in this project (and provide DIT DOT and up actually star). Considered in the
	Telemetry Type			portal are: acoustic telemetry used in this project (e.g. acoustic, P1, D3), pop-up satellite, etc.). Suppried in the portal are: acoustic telemetry, acoustic archival, archival data and underwater acoustics.
1	ETN group			The name of the group(s) the data belongs to. Can be the name of an Institute or a division within an Institute (e.g. VLIZ-VMDC). Tag and receiver ownership will be linked to these groups and group members will have reading access rights to all projects within the group.
	Tracking project title			Title of your tracking project. This can be an existing project title if the project has already been created before. If the project does not exits in the ETN database yet, please consider the following guideline when choosing a title: Title should cover the content, time period and/or region of the data (example: 'Acoustic telemetry data for Atlantic cod (Gadus morhua) in the C-Power wind farm in the southern North Sea (Belgium)'). This title (max 80 characters) will also become the title of the dataset(s) linked to the tracking project.
n	Project short title/acron	ym		The acronym of the project as it can be looked up in the ETN database (examples: 'Eel_migration_b-' or 'Fpass_schelde_18_20' or '2010_PHD_REUBENS').
1	Tracking project abstrac	t		Short (max 1000 characters) abstract about the content of the prior of
1	Moratorium			Network projects, by default, do not have a moratorium per animal projects is 4 years after the realease of the first animum will be send.
n	OTN Loan?			Does your project uses any receiver from OTN? If yes, i remember that data should be also sent to OTN.
			CONTRIBUTORS	HOW
1	Person 1	name		Name and contact of person responsible for the data a
	LifeWatch Thi	s service is powered	by LifeWatch Belgium Learn more»	WHO
Documents		L.	L Some statistics	
Data manual (참 Quick guide [참 Data policy [찬 ETN project template [과		204: 445 us	4123 active deployments 30 tagged animals, 135 species eres - 128 institutes - 471 projects	

Please fill up the project template...

How to	get your dot(s) on	the map:	
M = Mandatory, O = Optional	Field	Subfield	Guidelines
			BASIC PROJECT INFO
М	Project Type		Indicate project type. More information about projects in ETN can be found here: https://europeantrackingnetwork.org/en/1-etn-structure-and-concepts
М	Person providing the metadata	name	Name and ORCID-ID (if any) of person providing this metadata record
0		ORCID-ID	
М	Telemetry Type		The type of telemetry used in this project (e.g. acoustic, PIT, DST, pop-up satellite, etc.). Suported in the portal are: acoustic telemetry, acoustic archival, archival data and underwater acoustics.
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м	Tracking project title		Title of your tracking project. This can be an existing project title if the project has already been created before. If the project does not exits in the ETN database yet, please consider the following guideline when choosing a title: Title should cover the content, time period and/or region of the data (example: 'Acoustic telemetry data for Atlantic cod (Gadus morhua) in the C-Power wind farm in the southern North Sea (Belgium)'). This title (<u>max 80 characters</u>) will also become the title of the dataset(s) linked to the tracking project.
М	Project short title/acron	ı y m	The acronym of the project as it can be looked up in the ETN database (examples: 'Eel_migration_belgium' or 'Fpass_schelde_18_20' or '2010_PHD_REUBENS').
М	Tracking project abstrac	t	Short (<u>max 1000 characters</u>) abstract about the content of the project. This will be published on the ETN landing page alongside the dot on the map and project title.
м	Moratorium		Network projects, by default, do not have a moratorium period. The standard duration of moratorium for animal projects is 4 years after the realease of the first animal. Before end of moratorium a notification will be send.
М	OTN Loan?		Does your project uses any receiver from OTN? If yes, it is okey to upload your data to ETN, but please remember that data should be also sent to OTN.
			CONTRIBUTORS
м	Person 1	name	Name and contact of person responsible for the data and who can be contacted by other users to obtain
tep 5. You animal	What now? can upload data specific to s, receivers and/or detection	Ozgur, Galway Mayo Institu Dalhousie Universit	Aytaç, data creator ute of Technology (GMIT), more, partner V. more, external adviser
	your ETN private data p	University of Algary	e: Faculty of Marine and Environmental Sciences: Centre of Marine Sciences (CCMAR), more, partner
rt here Tracking Project me	tadata Umbre	Abeca	sis, David, data creator
		Instituto Andaluz de	e Investigación y Formación Agraria, Pesquera, Alimentaria y de la Produción Ecológica (IFAPA), more, partner

Uploading data



DETECTIONS



Getting started

Uploading data



This page allows you to import metadata. ETN supports the import of 4 metadata objects: tags, receivers, animals and deployments. To facilitate the import process, we require that import files follow some conventions (filetype, file header, content). These conventions are described further in detail below, for each of the supported metadata types	Data 👻 🖉 Files
caon or the supported metadata types.	Upload detection data
General conventions • fieldnames must match 100%; take the sample file as reference • only accepting comma-separated files • datetime fields should follow the ISO-8601 format (e.g. 2017-01-01T12:07:23Z) • Please use this sample files for the data import.	Import metadata
Choose which metadata you want to import Import tags Open TAG file description 	
Sample CSV file Open RECEIVER file description Sample CSV file	
 ○ Import animals ● Open ANIMAL file description ☑ Sample CSV file 	
Open DEPLOYMENT file description Sample CSV file File Browse No file selected.	ICENE IVERS ID:00
	Center The Fieldmannes must match 100%; take the sample file as reference Control of the sample files Control of the sample files Choose which metadata you want to import Sample CSV file File File Errowse No file selected. File File



STER	STER ECTS		THEL	MABLOT	`	Delivery Note Acoustic Receiv	ers		Contact: E mail@thelr +47 920 31	rik Høy nabiotel.no I 433	
H	56	9	Researcher:	Jan Reut	pens	Order:	q1622		Date:	10.12.202	1
υ	ÓF										
H I	å H		Serial number	Receiver Type	Frequency	Firmware	Completion date	Supported protocols	Comment,	special adaptions etc.	
	a H		2060	TER 000	69	V1.0.2	09.12.2021	OPs, OPi, S64K, R01M, S256, R64K	Fre	equency range 63->77kHz	
			2063	TRP 800	60	v1.0.2	09.12.2021	OPS, OPI, S64K, RU1M, S256, R64K	Fre	equency range 63->77kHz	
			2005	TBR 800	69	v1.0.2	09.12.2021	OPS, OPI, S64K, RUTM, S256, R64K	Fre	equency range 63->77kHz	
		B S	2000	TBR 800	69	v1.0.2	09.12.2021	OPS OPI SOAK RUTIVI, S250, ROAK	Fre	equency range 63->//kHz	
		Ξ	2068	TBR 800	69	102	09.12.2021	OPs OPi S64K R01M S256 R64K	FIE	equency range 63->77kHz	
		2	2070	TBR 800	69	v102	09 12 2021	OPs OPi S64K R01M S256 R64K	Fre	equency range 63 >77kHz	
		Щ	2071	TBR 800	69	v1.0.2	09.12.2021	OPs OPi S64K R01M S256 R64K	Ere	equency range 63->77kHz	
		ШШ	2072	TBR 800	69	v1.0.2	09.12.2021	OPs.OPi.S64K.R01M.S256.R64K	Fre	equency range 63->77kHz	
		2	2073	TBR 800	69	v1.0.2	09.12.2021	OPs, OPi, S64K, R01M, S256, R64K	Fre	equency range 63->77kHz	
			2074	TBR 800	69	v1.0.2	09.12.2021	OPs, OPi, S64K, R01M, S256, R64K	Fre	equency range 63->77kHz	
		S	2075	TBR 800	69	v1.0.2	09.12.2021	OPs,OPi,S64K,R01M,S256,R64K	Fre	equency range 63->77kHz	
		MENT									
				•		2		4	5	6	7
		읍	RECEIVER_ID	_SERIAL_NUM	BER RECE	IVER_ID_MODEL	MANUFACTURER	BATTERY_ESTIMATED_LIFE	STATUS	FINANCING_PROJEC	AR_REPLY
			2060		TBR8	00	THELMA BIOTEL	242	Available	FISHINTEL 💋	5
			2061		TBR8	00	THELMA BIOTEL	242	Available	FISHINTEL	
		N N	2063		TBR8	00	THELMA BIOTEL	242	Available	FISHINTEL	8
		Į	2066		TBR8	00	THELMA BIOTEL	242	Available	FISHINTEL	
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Getting started

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DETECTIONS PROJECT REGIST TAGS ETAD UPLOAD RECEIVERS **Excersice 1**. Upload your filled tag csv. RECEIVERS Make sure to include all Let's upload required fields. Special attention to: your receivers N • **RECEIVER STATUS** \rightarrow set to available first RECEIVI DEPLOYMENTS **BATTERY_ESTIMATED_LIFE** \longrightarrow the system will use this value to automatically calculate the BATTERY ESTIMATED END DATE ANIMALS only after uploading receiver metadata, the deployment metadata can be uploaded.

DETECTIONS

5			• • • • • • • • • • • • • • • • • • •	etadata impo	rt		
Ä		S	Import tags, red				
SOJ	T		This page allows you to import metadata. ETN supports the import process, we require that import files follow some conventions	t of 4 metadata objects: tags, re (filetype, file header, content). Th	ceivers, animals ese convention	s and deploy s are describ	ments. To facilitate the import bed further in detail below, for
4			General conventions • fieldnames must match 100%; take the sample file as r	aforence			Import metadata
		S S S S S S S S S S S S S S S S S S S	only accepting comma-separated files datetime fields should follow the ISO-8601 format (e.g.	Fieldname	Requir	ed Type	Description
			• Please use this sample files for the data import.	RCV_PROJECT	ĭ. ∑	String	Select a network project; predefined options; new project names can only be added by administrators as in: BPNS
		REC	Choose which metadata you want to import Import tags Open TAG file description	STATION_NAME	¥	string	Name of the station where the deployment of the receiver takes place. Related to a specific latitude and longitude. format: free text; as in: 0H6
		ENTS	Sample CSV file Import receivers Open RECEIVER file description	STATION_DESCRIPTION		string	Name of receiver location. The location name serves as an additional descriptive name of the receiver station. It can refer to a specific nearby point of land, town, island, or bod of water that identifies this receiver location. as in: upstream weir
			Sample CSV file Import animals Open ANIMAL file description	DEPLOY_DATE_TIME	S	datetime	Date and time that the equipment was deployed, in 24-hour UTC. Corresponds to the time of the captured waypoint. Datetime fields should follow the ISO-8601 format (e.g. 2017-01-01T12:07:23Z) format: yyyy-mm-ddThh:mm:ssZ; as in: 2017-06-27T12:00:00Z
			Sample CSV file	DEPLOY_LATITUDE	ſ ⊻	float	Latitude of the actual deployment location, in decimal degrees. Note: in the southern hemisphere all latitudes must be negative. format: dd.ddddd; as in: 51.36324
		ALS	Open DEPLOYMENT file description	DEPLOY_LONGITUDE	1 I I I I I I I I I I I I I I I I I I I	float	Longitude of the actual deployment location, in decimal degrees. Note: in the western hemisphere all longitudes must be negative. format: ddd.dddd; as in: 2.59020
			File	No file selected.			
		AN	Start import				



Getting started

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UPLOAD METADATA A PROJEC Detection data upload 0 Make sure all metadata (Tags, Receivers, REG Animals and Deployments) for these THELMA detections are in the system CREATE Prowse for files Prowse for files All **deployments** for detections need to be \square PLOAI open (without RECOVERY_DATE). If the ".tbrarw" & ".csv" files are supported VRL files are now supported deployment is not open, the system will not Automatically create a new deployment? Automatically create a new deployment? enter the detections Lotek After the import, a **RECOVERY_DATE** will be SONOTRONICS automatically assign to the receivers. This can be edited later Prowse for files Prowse for files You can select whether a new deployment ".JST" Conversion files ".TXT" are now supported ".csv" are allowed for that receiver should be created or not Automatically create a new deployment? Automatically create a new deployment?

REGISTER CREATE A PROJECT UPLOAD METADATA UPLOAD D HURCHIONS

My processing queue (automatically refreshes every 30 seconds, or click here)

This overview lists all file upload jobs created for you. Processing happens automatically, shortly after uploading the file.

File	Manufacturer	Deployment created	(UTC)	Status	Feedback
VR2W_136734_20210201_1.vrl	VEMCO		2022-03-18 13:06	Success	Show logs
VR2W_136736_20210201_1.vrl	VEMCO		2022-03-18 13:06	Success	Show logs
VR2W_136733_20210201_1.vrl	VEMCO		2022-03-18 13:05	Error	Show logs
VR2W_136735_20210201_1.vrl	VEMCO		2022-03-18 13:05	Success	Show logs
VR2W_136736_20211116_1.vrl	VEMCO		2022-03-18 13:04	Success	Show logs
VR2W_136734_20210414_1.vrl	VEMCO		2022-03-18 13:04	Success	Show logs
VR2W_136734_20211116_1.vrl	VEMCO		2022-03-18 13:03	Success	Show logs
VR2W_136728_20210917_1.vrl	VEMCO		2022-03-18 13:02	Success	Show logs
VR2W_136728_20210506_1.vrl	VEMCO		2022-03-18 13:02	Success	Show logs

During/after upload: status update



INFO

18-03-2022 13:40 Successfully uploaded 19744 detection records from VR2W_136734_20210201_1.vr1

18-03-2022 13:41 A QC issue(s) found: deployment date deployment [receiver: VR2W-136734] falls after some uploaded detections

ERROR 18-03-2022 13:36 VR2W_136733_20210201_1.vrl: Possible duplicate receiver (same model and serial number) found for: VR2W-136733

ISSUES

COMMON

How to avoid issues:

- Read the manual: <u>https://lifewatch.be/ETN/assets/docs/ETN-</u> <u>DataManual.pdf</u>
- Read the **field descriptions**. For each field it provides an explanation, the format and an example
- Watch the video tutorials in the ETN youtube channel
- Date-time: *ISO 8601* → "yyyy-mm-ddThh:mm:ssZ"
- **Owner group not found:** Check the user dashboard
- **Project not found:** *Check the user dashboard*
- Receiver/tag not found: Did you upload all? Any spelling mistakes?
- **Doesn't recognize all headers:** Use the .csv sample file
- Some information is missing: Fill out all compulsory fields

In general...

- The character for <u>decimal numbers</u> is a dot
- The files for metadata upload must be commaseparated and coded in UTF-8.
- The system **does** <u>not accept</u> <u>special</u> <u>characters</u> such as accents, exclamation marks, etc.

Or Add new	Edit 🕞 Duplicate	💼 Delete								
Only show deployments of my projects 🗹 (Unchecked will also list deployments not under moratorium)										
Ø Show/hide fields	🖪 Copy to clipboard	CRefresh data	🖈 Download data	Field definitions						
Show ventries										
RECEIVER_ID ⑦	▲ RCV_PRO	JECT STA	TION_NAME ⑦	DEPLOY_DA						
RECEIVER_ID	RCV_PRC	DJECT ST	ATION_NAME	DEPLOY_DA						

Linked by TAG_SERIAL_NUMBER

ISSUES

UPLOAD

COMMON METADATA

How to avoid issues:

- Read the manual: <u>https://lifewatch.be/ETN/assets/docs/ETN-</u> <u>DataManual.pdf</u>
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- Date-time: ISO 8601 → "yyyy-mm-ddThh:mm:ssZ"
- **Owner group not found:** *Check the user dashboard*
- **Project not found:** *Check the user dashboard*
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In general..

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- The system does <u>not accept</u> special characters such as accents, exclamation marks, etc.

Animals overview										
Add new	Edit, duplicate or d	elete an en	itry							
Only show animals of my project. (Unchecked will also list animals not under moratorium)										
Show/hide fields Copy to	o cipboard 🛛 CRefresh data 🔀 Download data 🔀 Field definitions									
Show v entries	Look and select fi	elds of inte	erest							
TAG_SERIAL_NUMBE R ⑦	SCIENTIFIC_NAME ®	TAG_ID_CODE	PROJECT							
TAG_SERIAL_NUMBER	SCIENTIFIC_NAME	TAG_ID_CODE	PROJECT							
02BS 7330	Download a <mark>CSV</mark> file	R64K-7330	2015_fint							
02BT 7331	with the metadata	R64K-7331	2015_fint							
02BU 7332	Alosa fallax	R64K-7332	2015_fint							
02077333	Alusa taliax	R04R-7355	2013_1111							
	your metadata									
◆ Add new	Edit Duplicate Delete									
Add new	Edit Duplicate Delete									
Add new Only show deployr	Z Edit □ Duplicate □ Delete ments of my projects ✓ (Unchecked will also	o list deploymen s no	ot under moratorium							
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Add new Only show deployr Show/hide fields	✓ Edit □ Duplicate □ Delete ments of my projects ✓ (Unchecked will also □ □ Copy to clipboard ご Refresh data • □ Copy to clipboard ○ Refresh data	o list deploymen s no Download data	ot under moratoriun ∑Field definitions							
Add new Only show dep loyr Show/hide fields Show	Edit Duplicate Delete ments of my projects (Unchecked will also Copy to clipboard Refresh data entries	o list deploymen s no Download data	TEPLOX							

ETN package

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ETN package

Lifewatch data explorer

Data source Map Data table

Exploring fish telemetry data

Aquatic animal tracking data from the European Tracking Network.

- Partners: ETN members
- Period: since January 2003
- Geographical coverage: Europe
- Taxonomic coverage: Pisces
- Moratorium: Some project data is under moratorium. Login or register to get full access

Time plots

Plots

• Data quality: Research-grade

How to interpret this dataset

Query options

- Data Source: One of: Time bins: Number of detections per tag and per station based on the selected sample period; Residencies: groups detections by period spent at each receiver and sampling frequency; or Active network: list of active deployments, in which case time = start of deployment.
- Network: The network of receiver or antenna deployments.
- Project: Animal project linked to the tag deployments.
- Sample period: Counts aggregated. One of 1 week, 1 day, 60 min, 10 min or 1 min.
- Timeframe: Starting and stopping date for the query.

Available columns

- Counts: Total GPS fixes or detections.
- Scientific_name: The latin name of the species.
- Project: Project in charge of receiver deployments.
- Network: The network of receiver or antenna deployments.
- Time: Time in UTC, beginning of sample timeperiod.
- Longitude: Center longitude in decimal degrees, WGS84
- Latitude: Center latitude in decimal degrees, WGS84
- Station: Name or code of sampling station or receiver code.
- Receiver: Receiver name, composed of 'Model number'-'Serial number'.
- Code: Code of device on / in individual.
- Moratorium: Some data fields are masked, pending official data publication. eg Species name.
- Duration: Total time since receiver deployment (in hours).
- Remaining: Battery life remaining in the receiver (in hours).
- Expiry_date: As in 'BATTERY_ESTIMATED_END_DATE' is the estimated date at which receiver will stop recording. This date is calculated automatically from (Deployments/Battery install date) and (Receivers/Expected battery life).
- Location_name: Name of receiver location. Please refer to a specific nearby point of land, town, island, or body of water that uniquely identifies this receiver location.
- Residency: Time in hours that an animal was present at a station.
- Absence: Time in hours that an animal was not detected at a station (calculated between end of previous residence and start of current residence period).
 Species: Significance of the start of
- Species: Scientific name of the animal, as in Gadus morhua.



https://rshiny.lifewatch.be/etn-data/



Data: 87048 rows x 11 columns

Reactivity restricted because of data size

Query options Data source Time bins Network All Project All Sample period 1 week Timeframe 2010-01-01 - 2022-03-20 Reload

2



This package provides functionality to access data from the **European Tracking Network (ETN)** database hosted by the Flanders Marine Institute (VLIZ) as part of the Flemish contribution to **LifeWatch**.



The ETN infrastructure currently requires the package to be run within the LifeWatch.be **RStudio server**, which is password protected.

RShiny/RStudio registration

	Sign in to RStudio	
Username	/	
Password		
Stay :	gned in	
	Sign In	
Register]	est password]	

	my details are listed in IMIS
First name [*]	
Last name [*]	
Password [*]	
Confirm password [*]	
E-mail [*]	
Request access to [*]	 Access to European ocean Tracking Network (ETN) data (ETN_data) Able to use the IMIS fairchecker (Rshiny app) (fairchecker) Labeling Images (MOC) (labeling_app) Full access to Lifewatch UvA-BiTS birds data (Lifewatch_birds) Download raw data from Flemish Banks Monitoring Network, via Rshiny (mvb) Access Rstudio server (RStudio)
Purpose	
	" I agree that my personal data is processed in accordance with the General Data Protection Regulation (GDPR)

Register



This package provides functionality to access data from the **European Tracking Network (ETN)** database hosted by the Flanders Marine Institute (VLIZ) as part of the Flemish contribution to **LifeWatch**.

Register to RStudio server -

The ETN infrastructure currently requires the package to be run within the LifeWatch.be **RStudio server**, which is password protected.

--• Find your credentials ---• You can find it in the ETN portal -> User info -> Rstudio info

ETN	^	Acoustic Teleme	etry 👻	Receivers	🏷 Tags	🔥 Deployments	🖽 Animals	Detections	Data 🗸	원 Files	🐣 C	Claudia Meneses Morei	no 🔻
			Rstı	udio credential	S				×		📰 Pro	Claudia Meneses More	eno
			Lo	gin details for acce	essing the P	ostgreSQL database	only			king		Settings Rstudio info	
			Yo	ur login det	ails:				ac	KINQ		Logout	
			Logi Pass	n: email@ema : very safe passw	il.com /ord								
			Go	to rstudio.lifewatc	h.be Go	to rstudio.vsc.lifewate	ch.be						



This package provides functionality to access data from the **European Tracking Network (ETN)** database hosted by the Flanders Marine Institute (VLIZ) as part of the Flemish contribution to **LifeWatch**.

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Check the ETN tutorial



DEMO. Generate yearly tagging effort report

https://claumemo.github.io/ETN_tutorial



https://claumemo.github.io/ETN_tutorial



claudia.meneses@vliz.be etn@lifewatch.be



5 🛃	🕒 Metadata import	
巴 6 8	Import tags, receivers, animals or deployments	
36	This page allows you to import metadata. ETN supports the import of 4 metadata objects: tags, receivers, animals and deployments. To facilitate the import	Data ▼ 4 Piles
2 7	process, we require that import files follow some conventions (filetype, file header, content). These conventions are described further in detail below, for each of the supported metadata types.	Upload detection data
	General conventions • fieldnames must match 100%; take the sample file as reference • only accepting comma-separated files • datetime fields should follow the ISO-8601 format (e.g. 2017-01-01T12:07:232) • Please use this sample files for the data import.	Import metadata
	Choose which metadata you want to import Import tags 	
	○ Import receivers	
	Open RECEIVER file description	
	Sample CSV file	
	C Import animals	
	Sample CSV file	
	C Import deployments	
	Open DEPLOYMENT file description	
-	Sample CSV file	
	File Browse No file selected.	
	Start import	

DETECTIONS



Uploading data

S I EK	ATA	S		N N	<mark>IANUFA</mark>	CTURER				Exam	ple: THELMA
ROJ	ETAT	TAG	THEL	MABIOTEL		Delivery No Acoustic Tr	te ansmitters			Contact: Erik Høy mail@thelmabiotel.ne +47 920 31 433	0
			Researcher:			Order:	834	1. S. S. C.		Date:	28.02.2022
		S	Tags specs:	42 pcs of LP9L							
			Diameter	9 mm							
		\geq	Length	24 mm							
		Image: Im	Weight air	4 g		∕ <mark>TAG</mark>	ID CODE				
		Ш	Weight water	2,5 g					TAG_ID_PR	OTOCOL	
			Power output	142 dB		/]	/			
					17.11	T.E.	Duty feed	Dustagel	Auto Off After Start	Life time	Comment/Bange/etc
		ĔΪ	Serial number	Transmitter Type	ID Number	Frequency	Duty [sec]	Protocol	Auto Off After Start	Eet 20.1 months	NA
			22084646	ID-LP9L	4646	69	30-60	R04N	800	Est. 20,1 months	NA
		Ī	22084647	ID-LP9L	4647	69	30-60	DGAK	800	Est 20,1 months	NA
			22084648	ID-LP9L	4648	69	30-60	R04K	800	Est 20,1 months	NA
		2	22084649	ID-LP9L	4649	60	30-60	REAK	800	Est 20,1 months	NA
			22084650	ID-LP9L	4650	60	30-60	REAK	800	Est 20,1 months	NA
			22084651	ID-LP9L	4001	69	30-60	R64K	800	Est 20,1 months	NA
			22084652	ID-LP9L	4052	69	30-60	R64K	800	Est 20,1 months	NA
			22084653	ID-LP9L	4055	69	30-60	R64K	800	Est. 20,1 months	NA
			22004054	ID-LF9L	4655	69	30-60	R64K	800	Est. 20,1 months	NA
		5	22004000	ID-LI JL	4000	00	00 00	DOUL	000	Est 20.1 months	NIA
		ANIN		MC	DEL	FRF					
			SERIAL_N	JIVIBEK			4021101				

μF		Serial number	Transmitter Type	ID Number	Frequency	Duty [sec]	Protocol	Auto Off After Start	Life time	Comment/F	Range/etc	
H C	2 🛃	22084646	ID-LP9L	4646	69	30-60	R64K	800	Est. 20,1 months		NA	0
	4 🗛 ៥	22084647	ID-LP9L	4647	69	30-60	R64K	800	Est. 20,1 months		NA	
UC	K 🛃 S	22084648	ID-LP9L	4648	69	30-60	R64K	800	Est. 20,1 months		NA	5
M		22084649	ID-LP9L	4649	69	30-60	R64K	800	Est. 20,1 months		NA	
2 2		22084650	ID-LP9L	4650	69	30-60	R64K	800	Est. 20,1 months		NA	E
	· Z	22084651	ID-LP9L	4651	69	30-60	R64K	800	Est. 20,1 months		NA	
		22084652	ID-LP9L	4652	69	30-60	R64K	800	Est. 20,1 months	1	NA	A
	6	22084653	ID-LP9L	4653	69	30-60	R64K	800	Est. 20,1 months	1	NA	
		22084654	ID-LP9L	4654	69	30-60	R64K	800	Est. 20,1 months	;	NA	
	L L	22084655	ID-LR9L	4655	69	30-60	R64K	800	Est. 20,1 months	;	NA	
						00.00	DOW	000	Eat 00.1 months		NIA	
	A		D	E				H	_		M	N
WNER_O	A		D TYPE TAG_SUB_TY	E PE MANUFACTU	F RER SERIAL_1			H STIMATED_LIFETIM T	I TAG		PTAG_ID_COI	
WNER_O	A	B CLAUDIA id-ta	D TYPE TAG_SUB_TY g animal	E PE MANUFACTU THELMA BIOT	F RER SERIAL_1 TEL 22084640	NUMBER MODE	EL TAG_ES	H STIMATED_LIFETIM T	I AG_STATUS TAG vailable	K TACTAG_ID_ R64K	PTAG_ID_COI 4646	DE FREQUENC 69
WNER_O	A	B CLAUDIA id-ta	D TYPE TAG_SUB_TY animal animal	E PE MANUFACTU THELMA BIOT THELMA BIOT	F RER SERIAL_1 TEL 22084640 TEL 2208464	NUMBER MODE 5 ID-LP9 7 ID-LP9	EL TAG_ES	H STIMATED_LIFETIM T a a	I J AG_STATUS TAG vailable vailable	K L TA(1AG_ID_ R64K R64K	PTAG_ID_COI 4646 4647	DE FREQUENC 69 69
WNER_O LIZ LIZ LIZ	A	B TAG CLAUDIA id-ta CLAUDIA id-ta CLAUDIA id-ta	D TYPE TAG_SUB_TY animal animal animal animal	E PE MANUFACTU THELMA BIOT THELMA BIOT THELMA BIOT	F RER SERIAL_F TEL 22084640 TEL 22084640 TEL 22084640	NUMBER MODE 5 ID-LP9 7 ID-LP9 8 ID-LP9	Image:	H STIMATED_LIFETIM T a a a a	I AG_STATUS TAG vailable vailable vailable	K TACTAG_ID_ R64K R64K R64K	PTAG_ID_COI 4646 4647 4648	N DE FREQUENC 69 69 69 69
WNER_O LIZ LIZ LIZ LIZ	A	B TAG CLAUDIA id-ta CLAUDIA id-ta CLAUDIA id-ta CLAUDIA id-ta	D TYPE TAG_SUB_TY animal animal animal animal animal animal	E PE MANUFACTL THELMA BIOT THELMA BIOT THELMA BIOT THELMA BIOT THELMA BIOT	F F F F F F F F F F F F F F	IUMBER MODE 5 ID-LP9 7 ID-LP9 8 ID-LP9 9 ID-LP9	EL TAG_ES	H STIMATED_LIFETIM T a a a a a a a a	I TAG AG_STATUS TAG vailable vailable vailable vailable	K TACTAG_ID_ R64K R64K R64K R64K	P TAG_ID_COI 4646 4647 4648 4649	N DE FREQUENC 69 69 69 69 69 69
WNER_O LIZ LIZ LIZ LIZ LIZ	A	B TAG CLAUDIA id-ta CLAUDIA id-ta CLAUDIA id-ta CLAUDIA id-ta CLAUDIA id-ta	D TYPE TAG_SUB_TY animal animal animal animal animal animal animal animal	E PE MANUFACTU THELMA BIOT THELMA BIOT THELMA BIOT THELMA BIOT THELMA BIOT THELMA BIOT	F RER SERIAL_1 TEL 22084640 TEL 22084640 TEL 22084640 TEL 22084640 TEL 22084640 TEL 22084640	NUMBER MODE 5 ID-LP9 7 ID-LP9 8 ID-LP9 9 ID-LP9 0 ID-LP9	EL TAG_ES	H STIMATED_LIFETIM T a a a a a a a a a a a a a a a a a a a	I TAG AG_STATUS TAG vailable vailable vailable vailable vailable vailable	K TACTAG_ID_ R64K R64K R64K R64K R64K R64K	M F TAG_ID_COI 4646 4647 4648 4649 4650	N DE FREQUENO 69 69 69 69 69 69 69 69

REGISTER

PROJECTS METADATA •Example: VEMCO **MANUFACTURER** TAGS Est tag life Step 1 Time Sales Order Serial No. # of ID's Customer Researcher **VUE Tag ID** Step 1 Status (dy hr:min:sec) **Tag Family** (days) 32865 1399973 2 Bag End **Bilbo Baggins** V9AP-2x-BLU-1 A69-9007-3723 206 ON 206 00:00:00 RECEIVERS **Bilbo Baggins** 32865 1399973 2 Bag End V9AP-2x-BLU-1 A69-9007-3724 206 ON 206 00:00:00 32865 1399974 2 Bag End **Bilbo Baggins** 206 ON V9AP-2x-BLU-1 A69-9007-3725 206 00:00:00 2 206 ON 32865 1399974 Bag End **Bilbo Baggins** V9AP-2x-BLU-1 A69-9007-3726 206 00:00:00 32865 2 Bag End **Bilbo Baggins** 206 ON 1399975 V9AP-2x-BLU-1 A69-9007-3727 206 00:00:00 1399975 32865 2 Bag End **Bilbo Baggins** V9AP-2x-BLU-1 A69-9007-3728 206 ON 206 00:00:00 32865 1399976 2 Bag End **Bilbo Baggins** V9AP-2x-BLU-1 A69-9007-3729 206 ON 206 00:00:00 **EPLOYMENTS** 32865 2 Bag End 206 ON 1399976 **Bilbo Baggins** V9AP-2x-BLU-1 A69-9007-3730 206 00:00:00 32865 1399977 2 Bag End **Bilbo Baggins** V9AP-2x-BLU-1 A69-9007-3731 206 ON 206 00:00:00 2 206 ON 32865 1399977 Bag End **Bilbo Baggins** V9AP-2x-BLU-1 A69-9007-3732 206 00:00:00 32865 1399978 2 Bag End **Bilbo Baggins** V9AP-2x-BLU-1 A69-9007-3733 206 ON 206 00:00:00 32865 1399978 2 Bag End **Bilbo Baggins** V9AP-2x-BLU-1 A69-9007-3734 206 ON 206 00:00:00 32865 2 Bag End V9AP-2x-BLU-1 A69-9007-3735 206 ON 1399979 **Bilbo Baggins** 206 00:00:00 V9AP-2x-BLU-1 A69-9007-3736 206 ON 32865 1399979 2 Bag End **Bilbo Baggins** 206 00:00:00 ANIMALS TAG ID CODE **SERIAL NUMBER** MODEL TAG ID PROTOCOL

ETN package

	N	S	Sales Order	Serial No	. # of ID's	Customer	Researcher	Tag Family	VUE Tag ID	Est tag life (days)	Step 1 Status	Step 1 Tin (dy hr:min:	ne sec)
15		Ű	32865	1399973	2	Bag End	Bilbo Baggins	V9AP-2x-BLU-1	A69-9007-3723	206	ON	206 00:00:0	00
20		1	32865	1399973	2	Bag End	Bilbo Baggins	V9AP-2x-BLU-1	A69-9007-3724	206	ON	206 00:00:0	00
			32865	1399974	2	Bag End	Bilbo Baggins	V9AP-2x-BLU-1	A69-9007-3725	206	ON	206 00:00:0	00
- 6	י צ		32865	1399974	2	Bag End	Bilbo Baggins	V9AP-2x-BLU-1	A69-9007-3726	206	ON	206 00:00:0	00
			32865	1399975	2	Bag End	Bilbo Baggins	V9AP-2x-BLU-1	A69-9007-3727	206	ON	206 00:00:0	00
		R K	32865	1399975	2	Bag End	Bilbo Baggins	V9AP-2x-BLU-1	A69-9007-3728	206	ON	206 00:00:0	00
			32865	1399976	2	Bag End	Bilbo Baggins	V9AP-2x-BLU-1	A69-9007-3729	206	ON	206 00:00:0	00
		E	32865	1399976	2	Bag End	Bilbo Baggins	V9AP-2x-BLU-1	A69-9007-3730	206	ON	206 00:00:0	00
		Ш	32865	1399977	2	Bag End	Bilbo Baggins	V9AP-2x-BLU-1	A69-9007-3731	206	ON	206 00:00:0	00
		INTS											
		AENTS											
ER_ORG	GANIZA	VENTS	PI	TAG_TYPE TA	AG_SUB_TYPE I	MANUFACTURE	R SERIAL_NUMBE	R MODEL 1	TAG_ESTIMATED_LIFETIME	TAG_STATUS		PROTOCOL	TAG_ID
ER_ORC Bag	<mark>GANIZA</mark> End	VENTS	PI Bilbo Baggins	TAG_TYPE TA sensor-tag	AG_SUB_TYPE I animal	MANUFACTURE VEMCO	R SERIAL_NUMBE 1399973	R MODEL 1 V9AP-2x-BLU-1	TAG_ESTIMATED_LIFETIME 206	TAG_STATUS available	VATITE TRG_IC	PROTOCOL 59-9007	TAG_ID 37
ER_ORO Bag Bag	<mark>GANIZA</mark> End End	VENTS	PI Bilbo Baggins Bilbo Baggins	TAG_TYPE TA sensor-tag sensor-tag	AG_SUB_TYPE I animal animal	MANUFACTURE VEMCO VEMCO	ER SERIAL_NUMBE 1399973 1399973	R MODEL 1 V9AP-2x-BLU-1 V9AP-2x-BLU-1	TAG_ESTIMATED_LIFETIME 206 206	TAG_STATUS available available	JATITE TRG_IC AC	PROTOCOL 59-9007 59-9007	TAG_ID 37 37
IER_ORO Bag Bag Bag	<mark>GANIZA</mark> End End End	VENTS	PI Bilbo Baggins Bilbo Baggins Bilbo Baggins	TAG_TYPE TA sensor-tag sensor-tag sensor-tag	AG_SUB_TYPE I animal animal animal animal	MANUFACTURE VEMCO VEMCO VEMCO	R SERIAL_NUMBE 1399973 1399973 1399974	R MODEL 1 V9AP-2x-BLU-1 V9AP-2x-BLU-1 V9AP-2x-BLU-1	TAG_ESTIMATED_LIFETIME 206 206 206	TAG_STATUS available available available	JATITE TRG_IC AC	PROTOCOL 59-9007 59-9007 59-9007	TAG_IE 37 37 37

δ	A_	Metadata import	
8		Import tags, receivers, animals or deployments	
ROJ	ETA	This page allows you to import metadata. ETN supports the import of 4 metadata objects: tags, receivers, animals and deployments. To facilitate the import process, we require that import files follow some conventions (filetype, file header, content). These conventions are described further in detail below, for each of the supported metadata types.	Data - I Files I Upload detection data
д	M	General conventions fieldnames must match 100%; take the sample file as reference only accepting comma-separated files datetime fields should follow the ISO-8601 format (e.g. 2017-01-01T12:07:232) Please use this sample files for the data import. 	Import metadata
		Choose which metadata you want to import Import tags Open TAG file description	
		Import receivers	
		 Import deployments ● Open DEPLOYMENT file description Fample CSV file File	

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Uploading data

Shiny app

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