



ACTRIS

CCRES

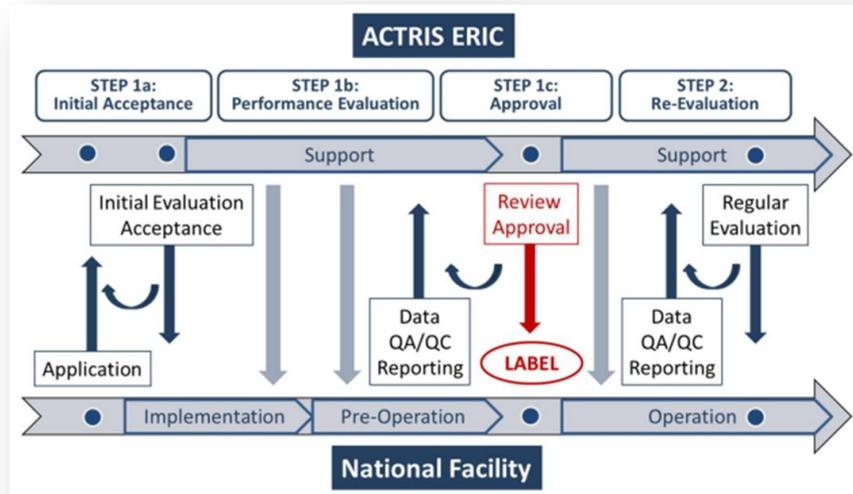
CRS Labelling process
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CCRES Workshop, SIRTA, Palaiseau Nov. 14-15th, 2022!



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I. CCRES labelling process in a nutshell



STEP 1 a: Initial acceptance

General feasibility check, collect of information on variables, instruments and personnel

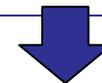
→ [Compliance with CCRES requirements](#)



STEP 1 b: Performance evaluation

Data flow and operation support schedule created, Tracking of NF data (2 years), Upgrade of the facility (if necessary),

→ [Compliance with CCRES/CLU data requirements](#)

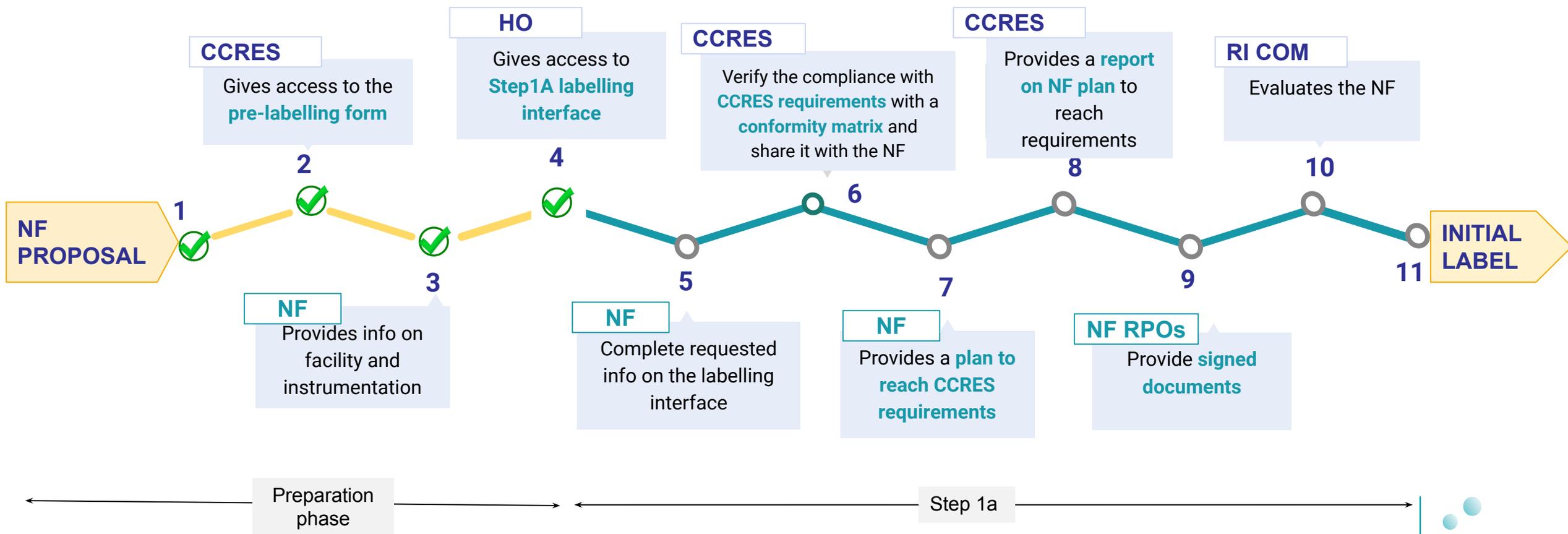


STEP 1 c: Approval

Full label is granted. Signature of ERIC and NF agreement.

II. The initial acceptance Step 1 a workflow

- 11 stages to reach initial label:



ACTRIS NF Labelling Interface

<https://actris-nf-labelling.out.ocp.fmi.fi/>



Site Instrumental de Recherche par Télédétection Atmosphérique (SIRTA)

Cloud remote sensing

Labelling plan

According to the National Facility plan provided to ACTRIS Head Office by France, the facility Site Instrumental de Recherche par Télédétection Atmosphérique (SIRTA) is scheduled to start the labelling process for cloud remote sensing in 2021.

Initial application

In the initial application phase the facility PI or other staff at the facility provide more detailed information on the facility and component specific contacts and instrumentation, and a plan how to reach compliance with ACTRIS technical requirements. This is done in collaboration with the respective Topical Centre in ACTRIS. The organization hosting the facility is also to sign a commitment for providing the necessary resources for the facility for at least 5 years. The existing and planned set-up of the facility is evaluated by the respective Topical Centre and the RI committee, after which the facility proceeds to initial acceptance phase.

Component information

The facility PI fills information on the component-specific contacts and instrumentation in the forms below. After that he / she submits the information, and it will be automatically directed to the respective Topical Centre and Data Centre unit for further elaboration and contact with the facility PI and staff.

Contacts
6 contacts

Instruments
No instruments yet

Submit

Upgrade plan

The facility PI is to provide a plan how and when the facility will reach full technical compliance with ACTRIS requirements. If the facility is already in line with ACTRIS requirements, the PI is to upload a document stating that.

This should be uploaded only after contact with the respective TC.

Upgrade plan
Not uploaded yet

Submit

Commitment letter

The organization hosting the facility has to commit to providing the needed resources for the facility for at least 5 years, and to approve the relevant ACTRIS policies. This commitment has to be signed by a legal signatory of the organization.

For commitment letter template and more information, press the button below.

Commitment letter
Not uploaded yet

Submit

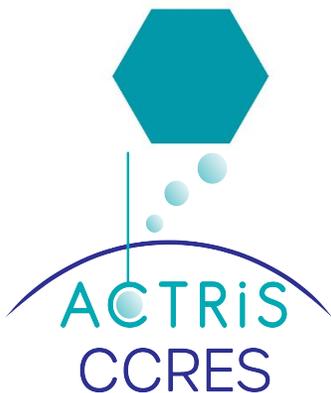
Evaluation

In this stage the Director General of ACTRIS initially approves or refuses the facility to be an ACTRIS National Facility. The decision is communicated to the facility PI, the hosting organization and the hosting country. In case the facility is initially accepted, the status will also be visible in ACTRIS maps and documents.

TC evaluation

The Topical Centre in charge of the applied measurement component evaluates the readiness of the facility and feasibility of its upgrade plan.

TC evaluation report
Not uploaded yet



II. The initial acceptance CCRES requirements

- Once the **labelling interface** is completed by the NF (Stage 5), CCRES verify the compliance with **CCRES requirements** thanks to a **conformity matrix** (Stage 6).
- CCRES requirements are composed of 3 main parameters:
 - **Instruments requirements** are checked: option A or B is verified
 - Instruments are **on site and operational** (or installed on site and plan to be operational in less than 3 months)
 - Each instrument has **an identified contact point for CCRES**



Requirements are available in
the CCRES website !

<https://www.actris.eu/topical-centre/ccres>

II. The initial acceptance CCRES requirements

- Instrument requirements, option A: Known compliant instruments

1. Doppler cloud radar	2. Microwave radiometer	3. Lidars & ceilometers	4. Disdrometer	5. Doppler lidar	6. Weather Station, incl. rain gauge	Other instruments
Metek Mira 35	RPG HATPRO series	Vaisala CL61	OTT Parsivel2	Halo Photonics Streamline		GPS water vapor
Metek Mira 35 C	Radiometrics MP 3000 series	Vaisala CL51	Thies LNM	Halo Photonics Streamline Pro		Lidar (Raman, DIAL, HSRL, etc)
BASTA FMCW 94 GHz		Vaisala CL31	Distromet Joss-Waldvogel	Halo Photonics Streamline XR		Micro Rain Radar
RPG FMCW 94 SP		Lufft CHM15k		Vaisala (Leosphere) Windcube WLS 100s		All-sky camera
RPG FMCW 94 DP		Lufft CHM8K		Vaisala (Leosphere) Windcube WLS 200s		Global radiation
RPG 35 GHz		Campbell Scientific SkyVUE		Vaisala (Leosphere) Windcube WLS 400s		In situ probes (clouds, aerosols)
RPG 35 GHz + 94 GHz		Raymetrics RAP				Sensible and latent heat flux measurements
Copernicus						GPS water vapor
Galileo						

Next steps

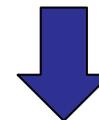
Preparation phase (that you have done already)

- *Complete pre-labelling form*
- *Install all instruments*
- *Look for CCRES documents and recommendations in CCRES website*
- *Participate in CCRES trainings and workshops*



When ready for labelling process

Go to the [ACTRIS National Facility Labelling platform](#)
and start the NF registration for labelling



STEP 1 A

List of instruments

Instrument list				
Doppler Cloud Radar	Microwave radiometer	Doppler lidar	Automatic lidars and ceilometers	Disdrometer
Metek MIRA 35	RPG HATPRO Series	Halo Photonics Streamline	Vaisala CL61	OTT Parsivel2
Metek MIRA 35C	Radiometrics MP-3000 series	Halo Photonics Streamline Pro	Vaisala CL51	Thies LNM
RPG RPG-FMCW-94-SP,		Halo Photonics Streamline XR	Vaisala CL31	Distromet Joss-Waldvogel
RPG RPG-FMCW-94-DP		Vaisala (Leosphere) Windcube WLS 100s	Vaisala CT25k (SkyVUEPRO)	
RPG 35 GHz		Vaisala (Leosphere) Windcube WLS 200s	Lufft CHM15k	
RPG 35 + 94 GHz		Vaisala (Leosphere) Windcube WLS 400s	Lufft CHM8k	
BASTA			SkyVUEPRO Campbell Scientific CS135	
Copernicus			Campbell Scientific SkyVUE	
Galileo			Raymetrics RAP	
			Nasa MPL	
			Droplet MT MiniMPL	
			Cimel CE376	



Labelling Step 1a

- NF ready to initiate labelling Phase 1A
- JOYCE, Jülich
- MARS / RADO-Bucharest
- SIRTA, Palaiseau
- Hyttiälä
- MOL, Lindenberg
- AGORA
- ...



Labelling Step 1b

- NF submit data, meta data, housekeeping data to CLU
- CCRES and CLU are developing and implementing
 - Daily diagnostics and visualisation of HKD
 - Monthly reports of HKD
 - Quality control of meta conformity
 - Quality tests and control of geophysical data
- Step 1b phase will take 2 years





Thank you