

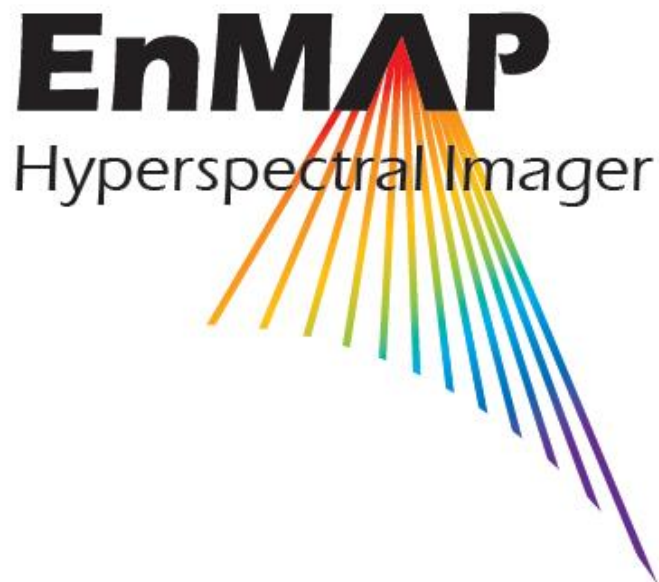


EnMAP Ground Segment

Portals User Manual

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German Remote Sensing Data Center (DFD)
Remote Sensing Technology Institute (IMF)
German Space Operations Center (GSOC)

TABLE OF SIGNATURES

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1. Introduction

1.1 Purpose

This manual covers the Scientific User Workflow from user registration, User role assignment, Proposal workflow, Observation request Workflow and Data delivery using the following portals:

- User Portal
- Proposal Portal
- Calibration Request Portal
- Observation Request Portal
- EOWEB® Geoportal

1.2 Scope

This document applies to subsystem GS within the EnMAP Ground Segment for phases D/E/F [AR01].

2. References

2.1 Applicable References

The following documents are applicable to the extent specified herein.

Ref	Document ID	Document Title	Issue	Date
AR01	EN-GS-PLN-1001/A	Project Plan Phases C/D, E – Part A: Management	4.0	12.06.2018
AR02	EN-GS-PLN-2010	Ground Operations Plan	1.2	19.01.2022

Table 2-1: Applicable References

2.2 Normative References

The following standards have been used for preparing this report.

Ref	Document ID	Document Title	Issue	Date
NR01	ECSS-E-ST-40C	Software	-	06.09.2009
NR02	ECSS-E-ST-70C	Ground Systems and Operations	-	31.07.2008

Table 2-2: Normative References

2.3 Informative references

The following document(s) serve as background information.

Ref	Document ID	Document Title	Issue	Date
IR01	EN-PGS-UM-8004-1	IPS User Manual – External Users (not public)	1.6	22.03.2021
IR02		EnMAP Science Plan (www.enmap.org)	2.0	02.11.2022

Table 2-3: Informative References

3. Terms, definitions and abbreviations

Terms, definitions and abbreviations for the EnMAP Ground Segment and the EnMAP Space Segment are collected and published on <http://www.enmap.org/> together with the mission description.

4. Overview

EnMAP (Environmental Mapping and Analysis Program) is a German hyperspectral satellite mission providing high quality hyperspectral image data on a timely and frequent basis. The main objective is to provide accurate and diagnostic information on the state and evolution of terrestrial and aquatic ecosystems for research and application in various fields such as agriculture and forestry, geology and soils, urban areas, coastal and inland waters. EnMAP is operated by the German Aerospace Center (DLR) covering all aspects relevant to assure successful mission operations. This comprises controlling and commanding the satellite using multi-mission infrastructures as well as data reception, hyperspectral data processing including calibration, data archiving, data dissemination, and providing web-interfaces to the international user community.

The target user group for this manual are regular EnMAP users, i.e. external science users who requested one or more roles in the user portal. Further information can be found on www.enmap.org.

5. EnMAP Data Access Portal

5.1 General

The EnMAP Data Access Portal (EDAP) in general include two major entry points: the EnMAP Instrument Planning Portal (IPP) and the EOWEB® GeoPortal (EGP).

The EnMAP Instrument Planning Portal (IPP) enables user registration, the submission of user proposals, and the planning and submitting of future orders. The EOWEB® GeoPortal (EGP) enables access to the full EnMAP Data archive data. Thus, each user can get access to EnMAP data using two different order options:

- On the one hand the user can submit future order requests through the EnMAP Instrument Planning Portal (IPP). This portal includes amongst others the submission of proposals for all scientific users responding to an Announcement of Opportunity (AO) and providing planning support of observation requests allowing submission of future orders.
- On the other hand, the already acquired EnMAP data can be searched, processed, and ordered based on the catalog from the archive of the German Satellite Data Archive (D-SDA) through the EOWEB® GeoPortal (EGP).

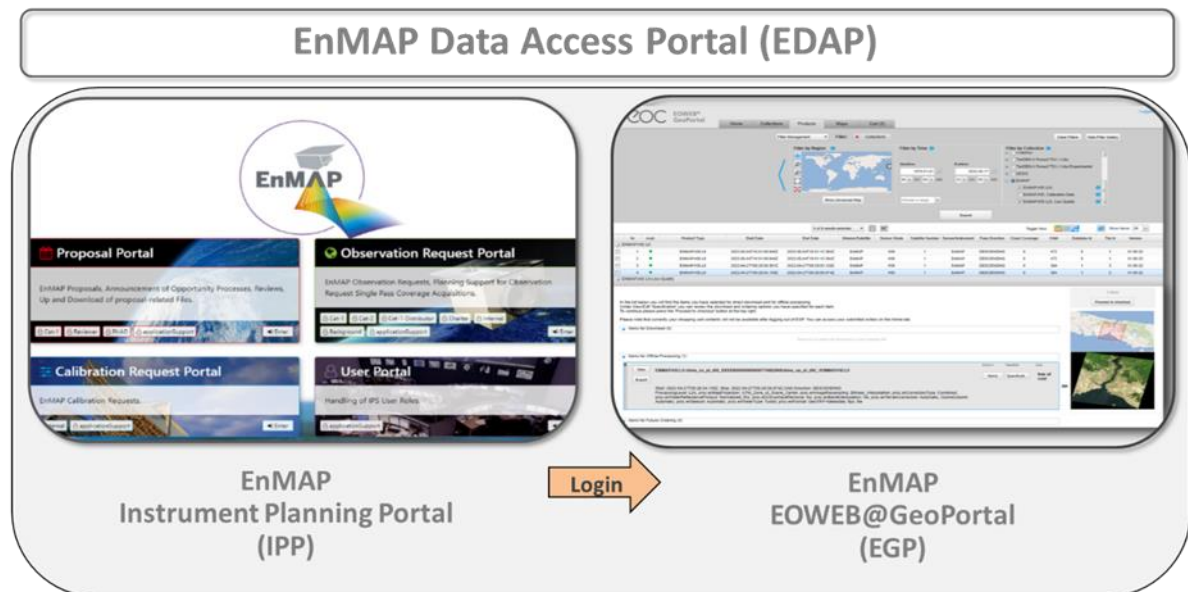


Figure 5-1 The EnMAP Data Access Portals

It is important to note that access to the EGP and thus to the EnMAP Data Archive should always be via the IPP, as role-specific EOWEB® User accounts are required to log into EGP. EOWEB® User accounts available to you are provided in the User Portal of the IPP.

5.2 Hardware and Software requirements

The Instrument Planning Web application was developed for PC, laptop and notebook. Due to its responsive design it may also be used with certain restrictions on tablet and smart phone, which usage however is neither supported nor recommended. The browsers for which the IPS Web application was developed and tested are:

- Chrome
- Firefox
- Opera
- Edge
- Safari

5.3 EnMAP Data Access

<https://planning.enmap.org>

5.4 Instrument Planning User Portal (IPP)

All users must first register at the **IPP**.

The **IPP** consists of 4 different Portals: (1) Proposal Portal, (2) Calibration Request Portal, (3) Observation request Portal and (4) User Portal:

- (1) The Proposal Portal includes the Announcement of Opportunity Processes, the proposal submission, and Proposal handling processes, as well as proposal review processes. The proposal portal allows Cat-1 Users to view all proposals and all observation requests.
- (2) The Calibration Request Portal is only available to internal users to enter Calibration Requests.
- (3) The Observation Request Portal allows users to enter observation requests. It also provides a planning tool for entering single-pass coverage acquisitions.
- (4) The User Portal is used to update user registration data, request new user roles, and provide access to the EOWEB User Accounts (EGP) for each approved role individually.

5.5 EOWEB® Geoservice (EGP)

The catalog search and order service (EGP) allows all registered users to search and browse data sets and products, that are described by corresponding ISO (International Organization for Standardization) metadata sets, and to visualize these products based on the CSW (Catalogue Service for the Web) and WMS (Web Mapping Service) protocols standardized by the OGC (Open Geospatial Consortium).

Due to the required multiple processing options, each product is generated specifically for the order and delivered using SFTP (secure file transfer protocol) provided by multi-mission facilities.

5.6 Available User Roles

After registration through the EnMAP Instrument Planning Portal (IPP) the EnMAP users can assume different roles before obtaining access to EnMAP data.

As the overall management of the available satellite resources requires prioritization of observation requests, one major purpose of the different roles is to be able to assign priorities to observation requests based on the role(s) of an issuing user.

Although EnMAP is based on an open data policy and every type of user is in principle entitled to download data and request acquisitions, there will be different user categories to set acquisition priorities. The scientific (**Cat-1**) order for example has higher priority and is requested to submit a proposal, which will undergo a scientific evaluation, whereas the commercial (**Cat-2**) user can acquire new data without a proposal, but will automatically be granted a lower priority. In addition to **Cat-1**, **Cat-2**, the role **Catalogue** has direct access to the EnMAP data archive, but this user is not allowed to submit future orders. The EnMAP Instrument Planning Portal is not open to **Cat-2** users yet, but will provide access also for this category very soon.

Directly after self-registration for an EnMAP Instrument Planning account, the new user account is not assigned to any specific EnMAP role yet. Thus specific user roles must be assigned to first. The following user roles are available to external users.

5.6.1 Category-1 User

A **Cat-1** User is a non-commercial (scientific) user assigned to a specific Announcement of Opportunity (AO) and is entitled to submit proposals within the scope of that Announcement of Opportunity. **Cat-1** user proposals undergo a scientific review process, which is performed by Reviewers. After the proposal is accepted, the **Cat-1** user is allowed to submit future orders through the Observation Request Portal (see chapter 6.5). The access to the EnMAP Data Archive is automatically approved.

5.6.2 Category-2 User

Commercial Users (**Cat-2**) may also place its own future EnMAP orders without submitting a proposal, however, a lower priority will be granted than e.g. to a scientific **Cat-1** User. The access to the EnMAP Data Archive is automatically approved.

The EnMAP Instrument Planning Portal is currently not open to **Cat-2** users, but access will be made available soon.

5.6.3 Catalogue (Cat-1-Distributor) User

The **Catalogue** role grants direct access to the EOWEB Catalogue of the German Satellite Data Archive (D-SDA) at the EOWEB® GeoPortal (EGP). The EGP provides catalogue search and retrieval functions for all previously acquired EnMAP data which will be long-term archived together with quality parameters.

All registered EnMAP User roles (**Cat-1**, **Cat-2**, **Catalogue**) have full access to the complete EnMAP data archive.

6. Step by Step Manual for the EnMAP Data Access and Ordering Process

6.1 Sign up at EnMAP Instrument Planning Portal Landing Page

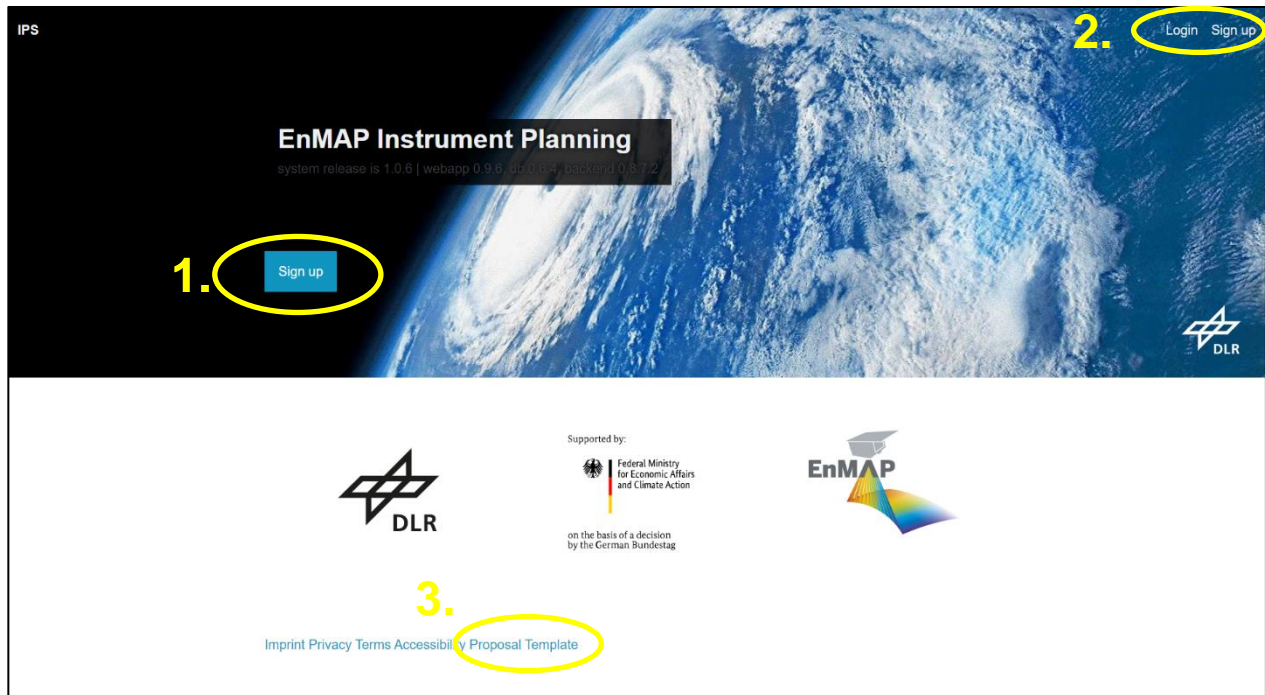



Figure 6-1 EnMAP Instrument Planning Portal Landing Page

New Users must register at the User Management System (UMS) by clicking the Sign-Up button (see Figure 6-1, Nr. 1.) at the Instrument Planning Portal landing page.

6.1.1 New User Registration and License Assignment



New User Registration
Account and Password Self Service

To register a new account, please complete the below form. Fields marked with * are mandatory.

In case you wish to specify a billing and/or delivery address different from your home address specified in the below form, you will have the option to update them in your user profile in a later step. You can start this operation after successful registration by choosing the option "Update your personal information".

Only after accepting the Terms and the Data Protection Policy you can create your user account by clicking the **create** button; only in this case your data is stored and your account will be created.

Title

First name*

Last name*

Category

Field of activity

Organization

Department

Street*

City*

State/Province

Country*

ZIP/Postal code*

Telephone number*

Email address*

User name*

The username must contain at least 5 and not more than 32 characters out of a-z, A-Z, 0-9, '-' and '_' and must begin with an alphabetic character.

New Password*

- Password is case sensitive
- Must be at least 8 characters long
- Must not include parts of your first name, last name, email address and username of length 5 and more characters
- Must not include the following character & , < , > , ; , / , \ , ' , "

Site Timeout: 20 minutes

Figure 6-2 New User registration for the account and password self service

For the EnMAP services the following terms and conditions apply:

The EnMAP Acceptable Use Policy and Conditions of Use (AUP)

The EnMAP Collaboration Contract

The EnMAP Data License

The EnMAP Data Protection Declaration

In case for any reason you prefer not to accept these terms and conditions, none of your inputs made so far will be stored in our systems and no account will be created.

By selecting the check boxes below, you declare:

I have fully read, understood and accept the EnMAP Acceptable Use Policy and Conditions of Use (AUP), the EnMAP Collaboration Contract, the EnMAP Data License and the EnMAP Data Protection Declaration.

I accept the EnMAP Acceptable Use Policy and Conditions of Use (AUP).

I accept the EnMAP Collaboration Contract

I accept the EnMAP Data License.

I acknowledge that I have read and understood the EnMAP Data Protection Declaration.

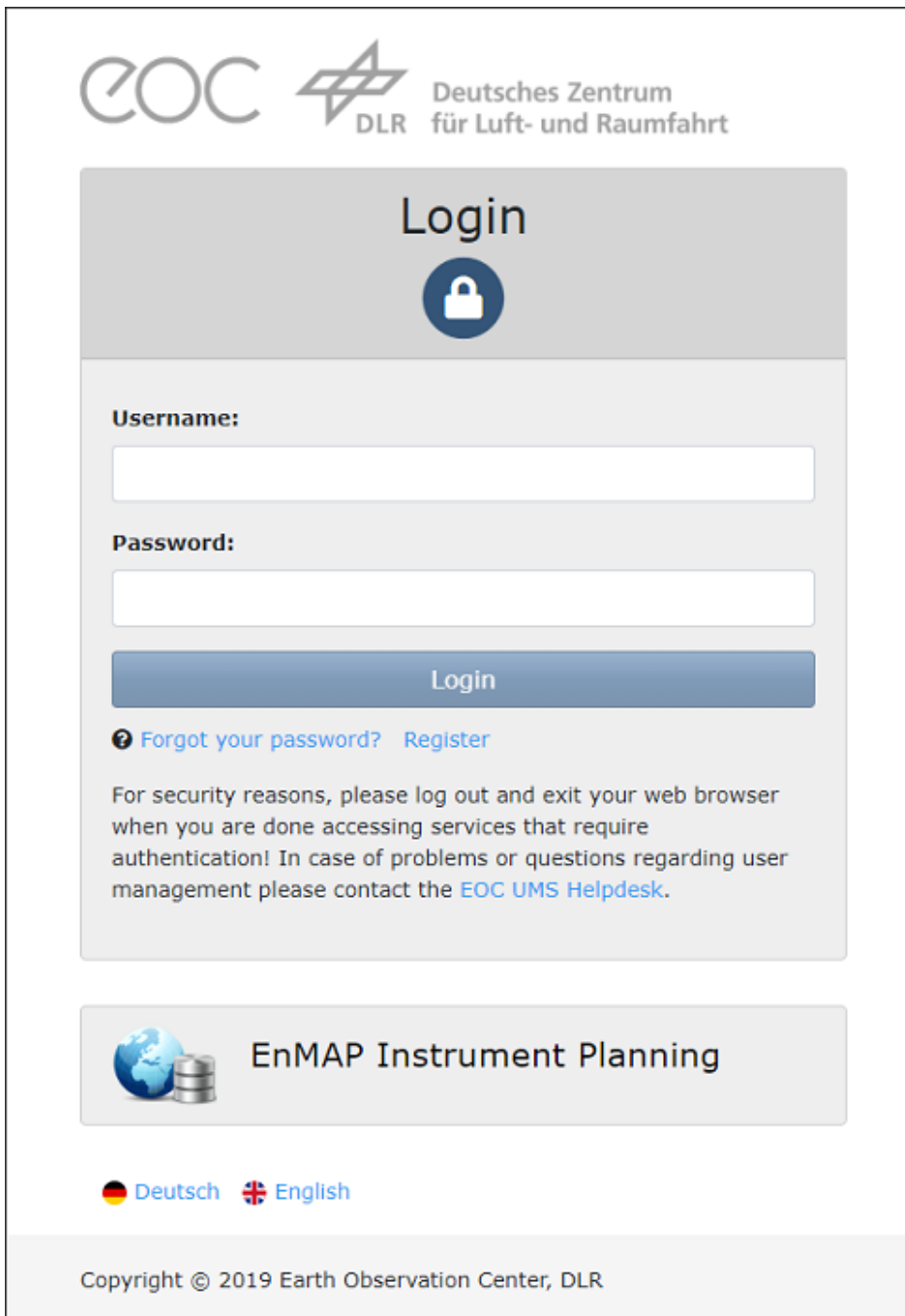
I confirm that I have reached the age of 16 years.

Figure 6-3 New user registration and license assignment

The user must accept License files before registration approval.

6.1.2 Instrument Planning Login

After the successful registration process the user can now login at the Instrument Planning Portal by clicking at the login button (see Figure 6-1, Nr. 2.).



The screenshot shows the login page for the Instrument Planning Portal. At the top left, there are logos for EOC and DLR (Deutsches Zentrum für Luft- und Raumfahrt). The main heading is "Login" with a padlock icon. Below this, there are input fields for "Username:" and "Password:". A blue "Login" button is positioned below the password field. Underneath the button, there are links for "Forgot your password?" and "Register". A security notice follows, advising users to log out and exit their browser when done. At the bottom of the login area, there is a button for "EnMAP Instrument Planning" with a globe icon. Language options for "Deutsch" and "English" are provided at the bottom left. The footer contains the copyright notice: "Copyright © 2019 Earth Observation Center, DLR".

Figure 6-4 Instrument Planning Portal Login Page

6.2 Instrument Planning Home Page

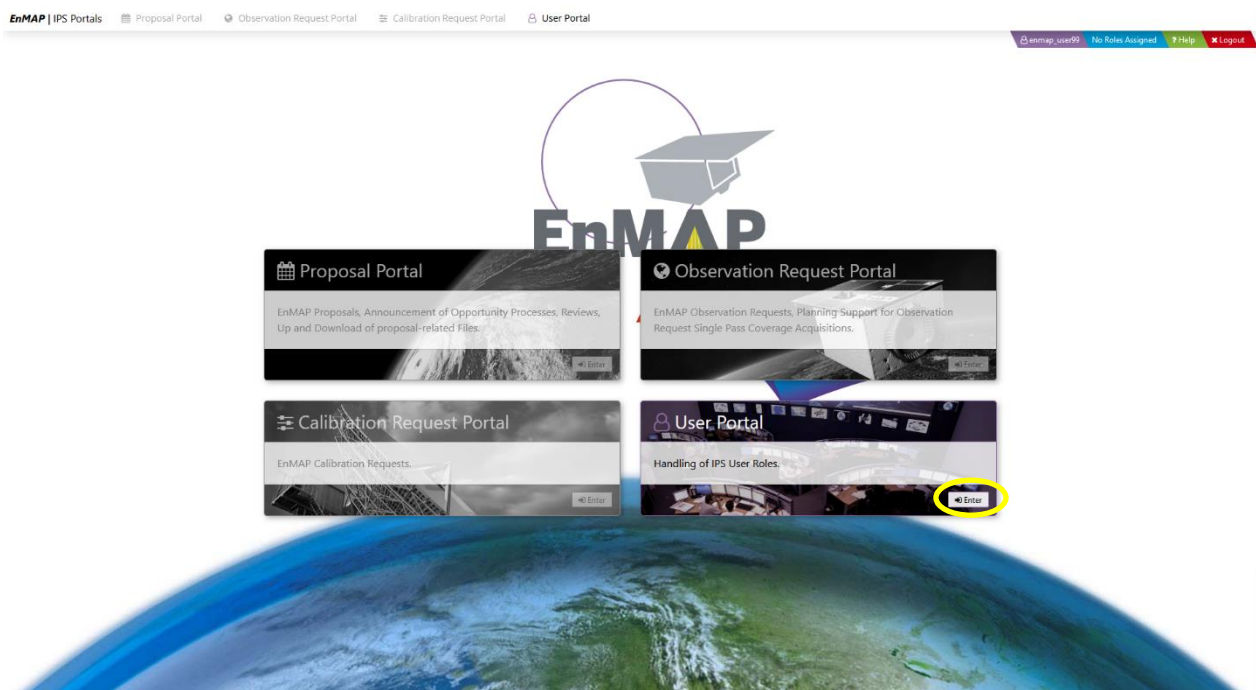


Figure 6-5 Instrument Planning Portal Home Page

The purpose of this form is to provide Users access to all portals. If no appropriate role is available, the user has to enter the user portal to request any of the desired roles, otherwise the user has to select an appropriate role before entering a portal other than the user portal. This can be done either by clicking the blue role selection field on the top right corner or by clicking one of the buttons that are labelled with a granted user role.

6.3 User Portal

6.3.1 Role Assignment

In the User Portal the user should scroll down to Role Assignment and assign as role **Cat-1** (see Figure 6-6, Nr. 1.) for the Announcement of Opportunity (AO) or as role **Catalogue (Cat1-Distributor)** (see Figure 6-6, Nr. 2.) for receiving access to the EnMAP Data archive.

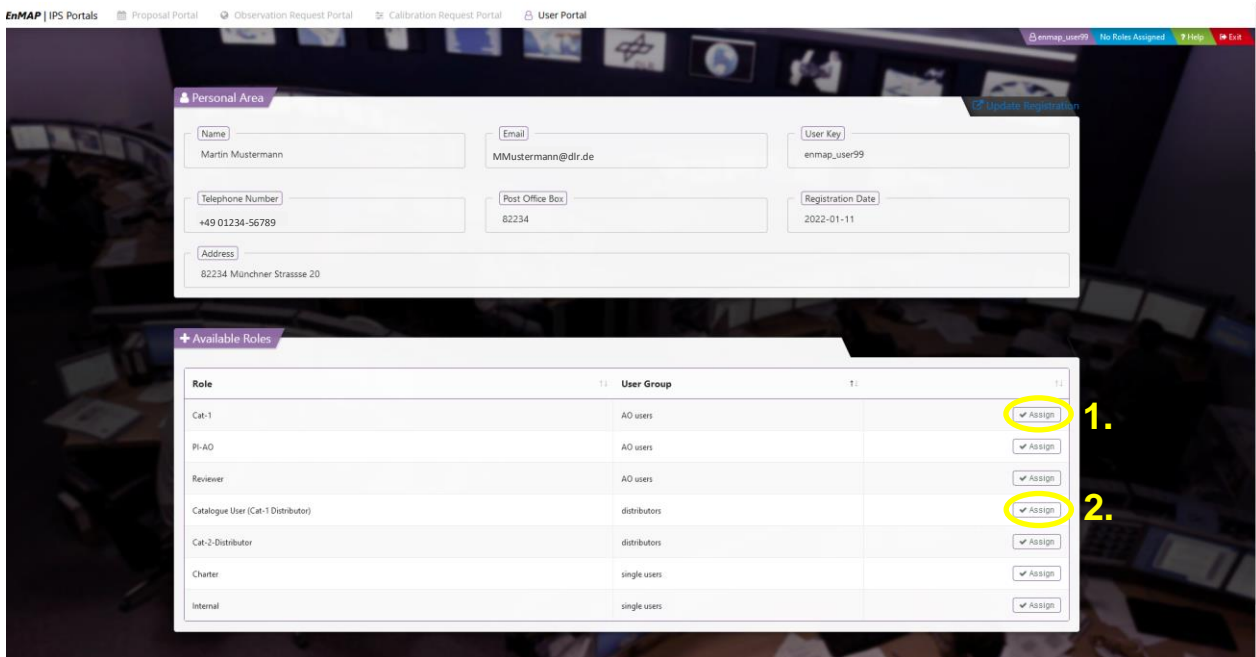


Figure 6-6 User role assignment of user role **Cat-1** or **Catalogue**

6.3.2 Role Assignment of Cat-1 User

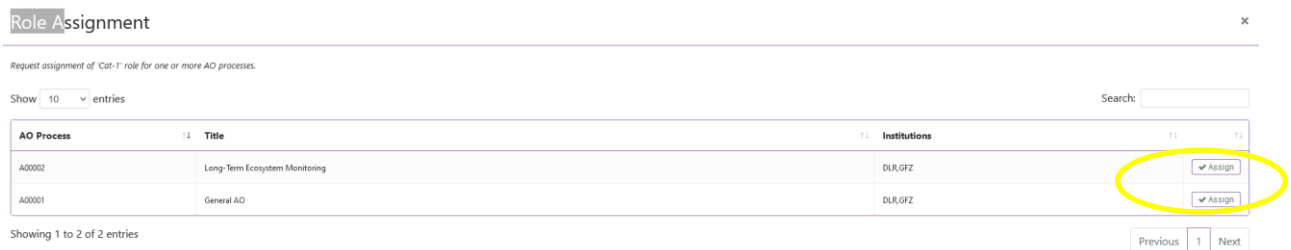


Figure 6-7 **Cat-1** user role assignment to an open Announcement of Opportunity

Each **Cat-1** user has to be assigned to an open Announcement of Opportunity (AO) before submitting a new proposal (see Figure 6-7Figure 6-7)

Role Assignment



Request assignment of role 'Cat-1' for AO Process A00001 ?

Your request will appear in table 'Requested Roles' with status 'readyForRelease'. At this point you may withdraw your request by clicking [Unassign]. Once the request is released you will receive a notification email and the request entry moves to table 'Granted Roles'.


✓ Confirm

✗ Cancel

Figure 6-8 Message about request assignment of role [Cat-1](#)

After successful registration and user role assignment, the user can now go back to the Instrument Planning landing page and download the proposal template (see Figure 6-1, Nr 3.). The filled out Proposal Template should be sent via E-mail to enmap_application_sp@dlr.de.

6.3.3 Proposal template

EnMAP Proposal Template

EnMAP Proposal Template

Template for the Submission of Proposals by Scientific Users (Cat-1 Users)

DLR, EOC, Oberpfaffenhofen, 02.11.2022

This Template for the Submission of Proposals by Scientific Users (Cat-1 Users) serves as a preliminary workaround as the respective Website for Proposal submission at the Instrument Planning (IPS) Web-Portal is still blocked for technical reasons. In the near future the Proposal submission via the IPS Portal will be released; then, this template and its usage will become obsolete.

Before you use this Proposal Template to create a Proposal and send it to enmap_application_sp@dlr.de please first register as an EnMAP User at <https://planning.enmap.org/> applying the sign up button. Consecutively request the role Cat-1 User for the respective AO Process.

Please provide us with your following contact data which we need to insert your Proposal into the Instrument Planning System and relate it to your User Account:

First name, Last name	
User name (User ID, as registered for EnMAP)	
E-Mail Address	

Figure 6-9 Proposal Template Form

Please note, this step is only a temporary procedure, in future new proposals will be submitted directly through the Instrument Planning Proposal Portal (see also chapter 6.4). Information on the Proposal Portal will be updated soon.

6.3.4 Role Assignment of Catalogue User (Cat-1-Distributor)

Role Assignment



Request assignment of role 'Cat-1-Distributor' ?

Your request will appear in table 'Requested Roles' with status 'readyForApproval'. At this point you may withdraw your request by clicking [Unassign]. Next application support is informed and the role assignment status changes to 'approvalInProgress'. If application support rejects your request you will be noted by email and the status changes to 'rejected'. If your request is approved its status becomes 'readyForLicenseTransmission'. Then you will be asked via mail to sign an attached license and the request status is set to 'waitingForLicenseSignature'. If application support confirms that it received the signed license the status becomes 'readyForEoweb' and an EOWEB user will be created. Once the request is released you will receive a notification email and the request entry moves to table 'Granted Roles'.

✓ Confirm

✗ Cancel

Figure 6-10 Message about request assignment of role [Catalogue \(Cat-1-Distributor\)](#)

6.3.5 Login to EOWEB User Account via User Portal

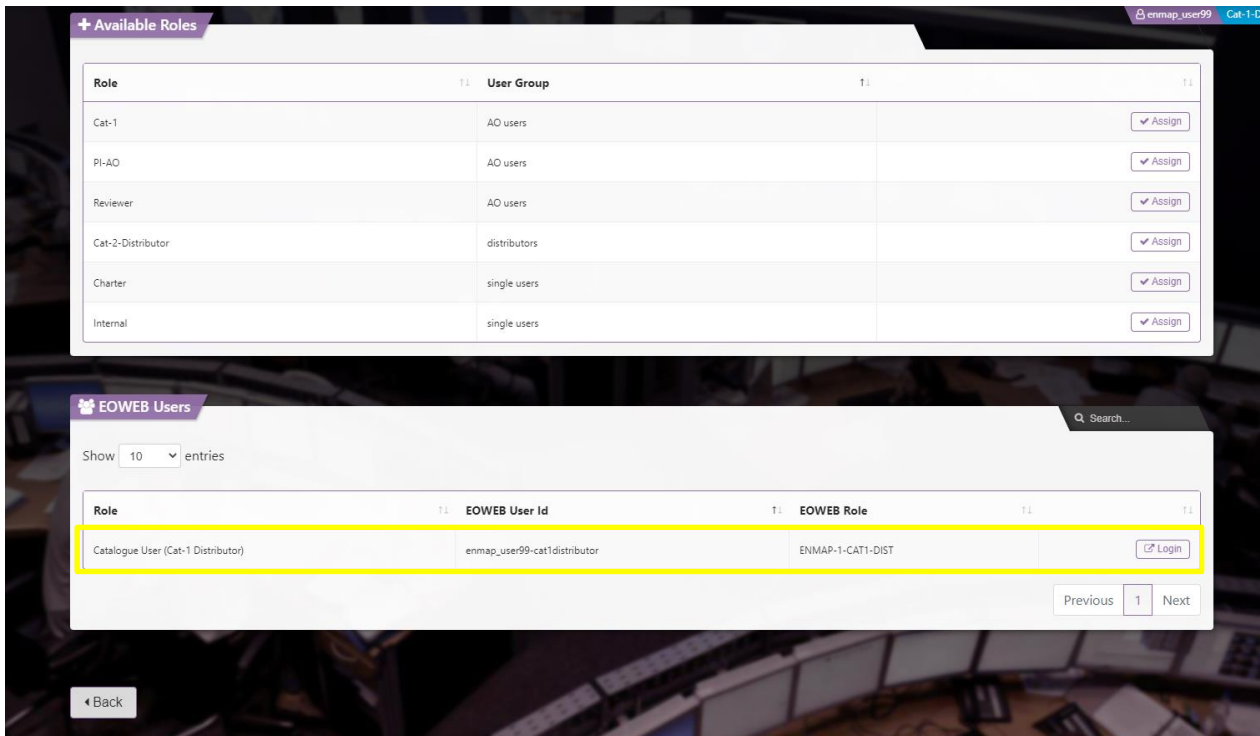


Figure 6-11 Login to the EOWEB®Geoportal via Instrument Planning User Portal

The EOWEB User account is created for **Cat-1** users, after the proposal has been approved by the Reviewer. It is automatically created for **Catalogue (Cat-1-Distributor)** users directly after registration and approval through mission management. The user portal is currently not open to **Cat-2** users, however the user access also for this user role will be available soon.

The login button at the User Portal directs automatically to the login page of the EOWEB®Geoportal. At this point it is important to enter the exact EOWEB User ID associated to the approved EOWEB User Id name, which in case of **Cat-1** also includes the associated Announcement of Opportunity and Proposal number (see chapter 6.6)

6.4 Proposal Portal

The Proposal Portal is currently not available to the user. Information about the Proposal Portal will be updated soon.

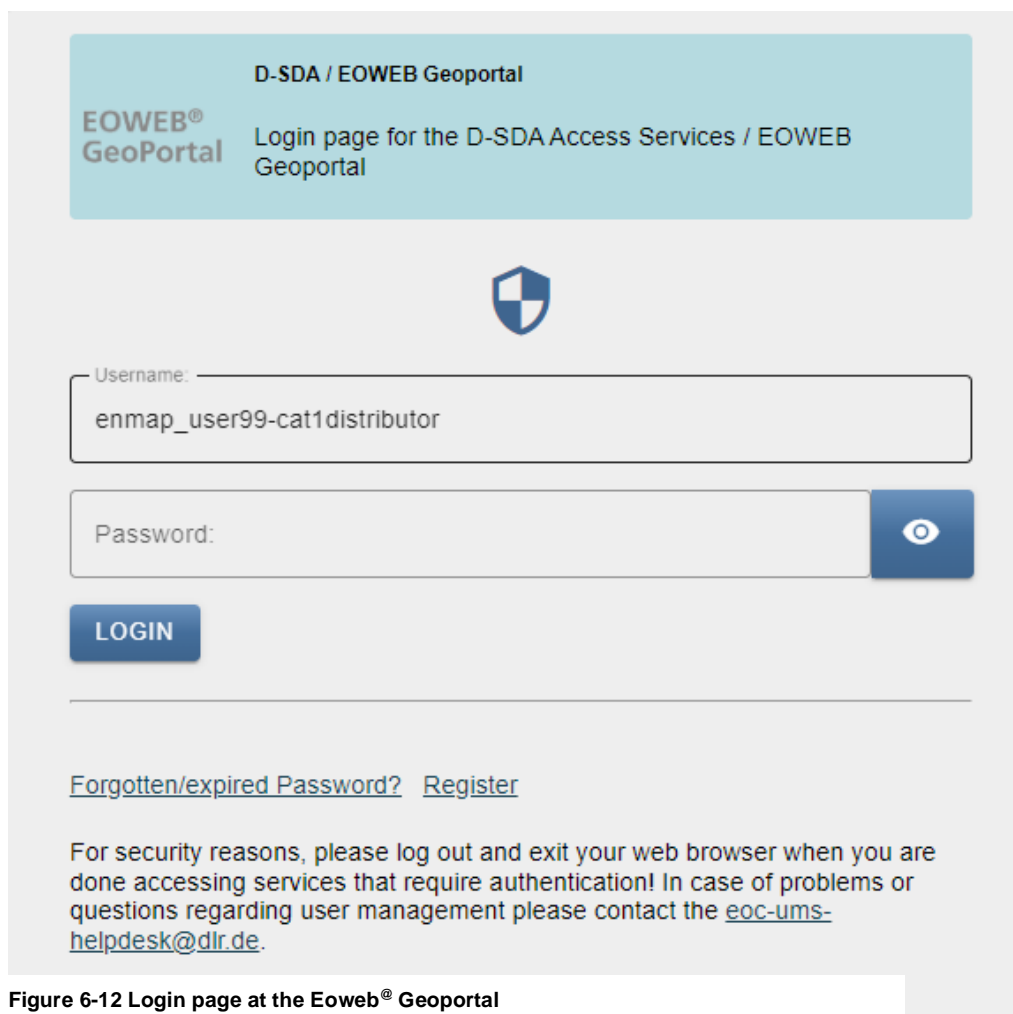
6.5 Observation Request Portal

The Observation Request Portal is currently not available to the user. Information about the Observation Request Portal will be updated soon.

6.6 EOWEB@ Geoportal

The login button at IPP User Portal directs automatically to the login page of the EOWEB@Geoportal. At this point it is important to enter the exact EOWEB User ID associated to the approved proposal (see Figure 6-12)

The password remains the same as for the login at the Instrument Planning Portal Registration.



D-SDA / EOWEB Geoportal

EOWEB® GeoPortal Login page for the D-SDA Access Services / EOWEB Geoportal

enmap_user99-cat1distributor

Password:

LOGIN

[Forgotten/expired Password?](#) [Register](#)

For security reasons, please log out and exit your web browser when you are done accessing services that require authentication! In case of problems or questions regarding user management please contact the eoc-ums-helpdesk@dlr.de.

Figure 6-12 Login page at the Eoweb® Geoportal

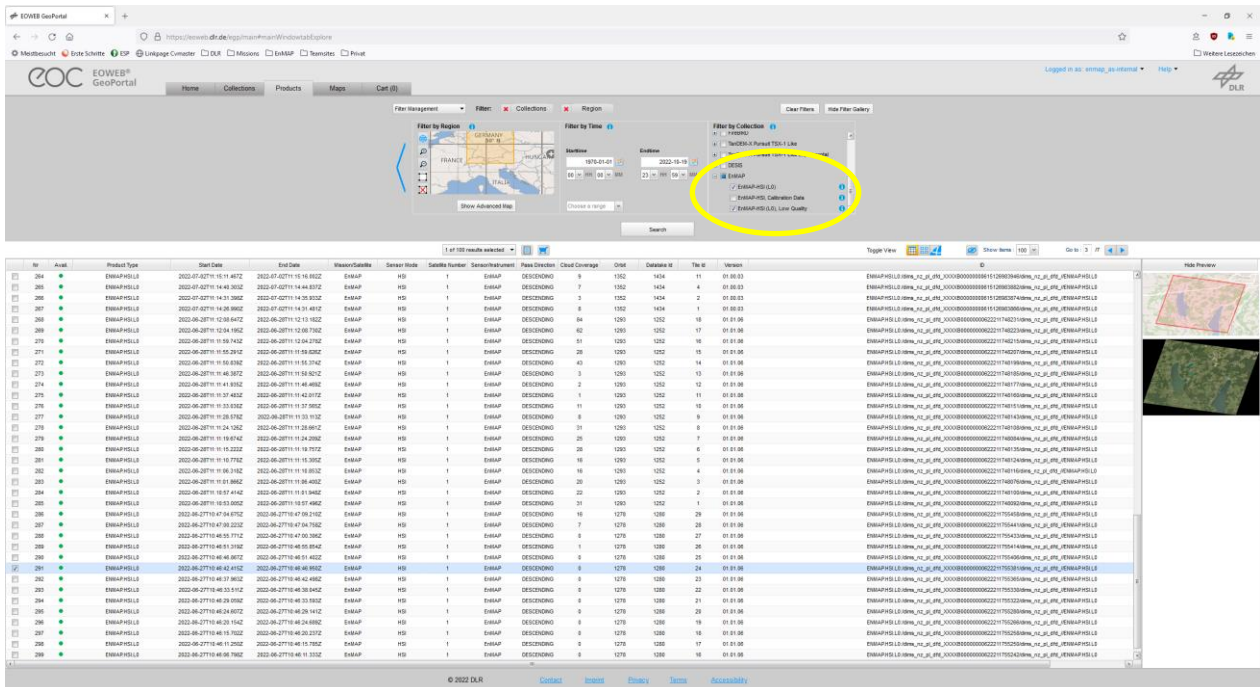


Figure 6-13 EOWEB@Geoportal entry page

During the operational phase, the following EnMAP data products will be delivered to the user community: Product Level 1B, Product Level 1C, and Product Level 2A. Please, note that the raw data and the subsequent Level 0 products are not available to the user community. The final image product includes masks, the metadata and history files.

EnMAP Data Products	Acronym	Description
Level 1B	L1B	The Level 1B product represents top-of-atmosphere radiance.
Level 1C	L1C	The Level 1C product represents geocoded top-of-atmosphere radiance. This product is derived from the Level 1B product, which is subsequently geometrically corrected (orthorectified) and re-sampled to a specified grid.
L2A	L2A _{land} L2A _{water} * L2A _{combined} *	The Level 2A processor will convert the Level 1C products to surface reflectances separately for land and water applications. This split procedure is quite unique in data processing and should give the user the possibility to select the best result according to the area of interest (land or water or combined).

Table 6-1 EnMAP Data Products

*Please note the L2A water and L2A combined product will be made available shortly. At the beginning of the routine operations delays in the process of data request may be possible.

7. EnMAP Products and Educations

7.1 Data and Tools

EnMAP Data visualization and further analysis will be supported through plug-ins in several analysis tools:

7.1.1 EnMAP-Box

The EnMAP-Box is a free and open source plug-in for QGIS to visualize and process remote sensing raster data. It is developed targeting both, novices as well as experienced users, and offers basic processing and visualization functionality as well as advanced approaches for image analysis. Moreover, the open source code may easily be extended by individual applications.

<https://enmap-box.readthedocs.io/en/latest/>

7.1.2 ENVI and IDL

7.1.3 SNAP

<http://step.esa.int/main/download/snap-download/>

7.2 HYPERedu online learning initiative

HYPERedu is an online learning initiative for hyperspectral remote sensing. On the one hand, it provides online learning resources on principles, methods and applications of imaging spectroscopy at master's level addressing students as well as professionals in research, business, and public institutions. The resources comprise annotated slide collections and hands-on tutorials (based on the EnMAP-Box software) that are continuously extended and increasingly used in training courses as well as university teaching.

<https://eo-college.org/resource-spectrum/hyperspectral//>

<https://eo-college.org/courses/beyond-the-visible/>



8. FAQ

Frequently Asked Question	Topic	Solution

Table 8-1 Frequently Asked Questions (FAQ)

9. EnMAP Terms and Abbreviations

Acronym	Proposal Status	Explanation
SUB	submissionInProgress	Cat-1 user has created the proposal and is working on it until he/she has completed it so that it can be submitted.
NEW	new	Cat-1 user has submitted the proposal and the primary reviewer is asked to assign a reviewer to the proposal.
RRV	readyForReview	A reviewer was assigned to the proposal and the reviewer was asked to review the proposal.
RVP	reviewInProgress	The proposal reviewer works on the review.
APP	approved	The reviewer submitted the review result and approved the proposal.
REJ	rejected	The reviewer rejected the proposal.
TBM	toBeModified	The reviewer commented on the proposal and asks the proposal owner for modifications.
LCS	licenseSigned	Application support has approved the receipt of the Cat-1 license signed by the proposal owner. Now an EOWEB user is created automatically.
MIP	modificationInProgress	The proposal owner modifies the proposal according to the reviewer's comments.
MFR	modifiedForReview	The proposal owner is done with modifications and the reviewer is asked to review the modified proposal.
REL	released	After the creation of an associated EOWEB user the proposal was released, so that it can be used for observation requests.
DSC	discarded	The proposal was either regularly cancelled by the owner or in an exceptional case by an operator.

Table 9-1 Acronym of Proposal Status

Term	Abbreviation	Definition
Application Support	AS	DLR space administration that takes care of the administrative IPS portal application matters.
Announcement of Opportunity	AO	The call for proposals to utilize a satellite mission. Utilization can mean scientific data exploitation but also the opportunity to provide payloads.
Data Acquisition		Time span for recording data from selected or all spectral bands.
Earth Observation on the Web	EOWEB	The user interface Earth Observation on the WEB provides access to the earth observation data available at the DFD. You can search for data, view browse images, order data and retrieve data online.
EnMAP Data Access Portal	EDAP	

EnMAP Instrument Planning account	IPP	Main EnMAP account for access to the EnMAP IPP
EOWEB® User account	EGP	Secondary accounts derived from the EnMAP Instrument Planning account with role and/or proposal based specific access rights to the EOWEB® GeoPortal.
Observation Request Portal		The IPS observation portal allows creating and managing observation requests for data acquisition by the EnMAP satellite. Observation requests are requests issued by IPS users through the observation request portal asking for datatakes. The OR provides all information required for scheduling datatakes such as location and extension of the observation area, acquisition time-frame, sensor look angle, and data product level(s).
Proposal Portal		The IPS proposal portal allows creating and managing proposals for data acquisition by the EnMAP satellite.
Satellitendatensicherheitsgesetz	SatDSiG	Gesetz zum Schutz vor Gefährdung der Sicherheit der Bundesrepublik Deutschland durch das Verbreiten von hochwertigen Erdfernerkundungsdaten.
User Portal		In the user portal, a registered IPS user requests the assignment of one or more user roles monitors the role assignment process and can inspect his/her registration data.

Table 9-2 EnMAP Terms

Abbreviation	Description
AO	The call for proposals to utilize a satellite mission. Utilization can mean scientific data exploitation but also the opportunity to provide payloads.
PI-AO	PI-AO is a leading scientist of a remote sensing institution responsible of a particular AO process.
Cal/Val	Calibration and Validation
OR-AC	Observation Request – Area Coverage
EnMAP	Environmental Mapping and Analysis Program
AUP	
IPP	Instrument Planning Portal
GDPR	
D-SDA	Deutsches Satellitendaten-Archiv (German Satellite Data Archive)
EGP	EOWEB GeoPortal
EDAP	EnMAP Data Access Portal

Table 9-3 EnMAP Abbreviations