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FOREWORD

Scope of this document

This document contains the main indications to use OpenWis User portal as an authenticated user.

Audience of the document

The present manual is intended for end-users new to the OpenWis User portal.

Software release

This document refers to OpenWis v3.12

System requirement

Any Internet browser.

Vocabulary

Within the OpenWis software or in the current document, we use the following vocabulary:

Authority	Identifier of a Centre that transmits data
Cache	Last 24 hours global data stored by a GISC.
Catalogue	Metadata repository
Category	Set of metadata
DAR	Discovery, Access, Retrieve functions. DAR means that you can: <ul style="list-style-type: none">- Discover: Search data from entire WIS- Access: Examine metadata- Retrieve:<ul style="list-style-type: none">- Pull data immediately if available (Request)- Apply for delivery (Subscribe)
Data	Meteorological data like satellite image, bulletin
DCPC	Data Collection and/or Production Centre (WIS terminology)
GISC	Global Information System Centre (WIS terminology)
Global data	Essential data as defined in WMO Resolution 40: these data must be freely exchanged within the WIS
GTS	Global Telecommunication System
Information	Data or product
Metadata	Description of what information and information access services exist within the WMO communities, what they contain, where they are located and how to retrieve the required information. Metadata are required for various purposes, for example for: <ul style="list-style-type: none">- the use of the data (for example: sensor types used at an observing station) or- the discovery of the data (what, where, when, who)

NC	National Centre (WIS terminology)
NMS	National Meteorological Service
Product	Added value data like imagery processing, numerical weather forecaster computation
Service	Set of functions provided by OpenWis.
URN	Uniform Resource Name: unique identifier used to identify each metadata record into the OpenWIS system
WIS	WMO Information System
WMO	World Meteorological Organization

1 OVERVIEW

1.1 OpenWIS purpose

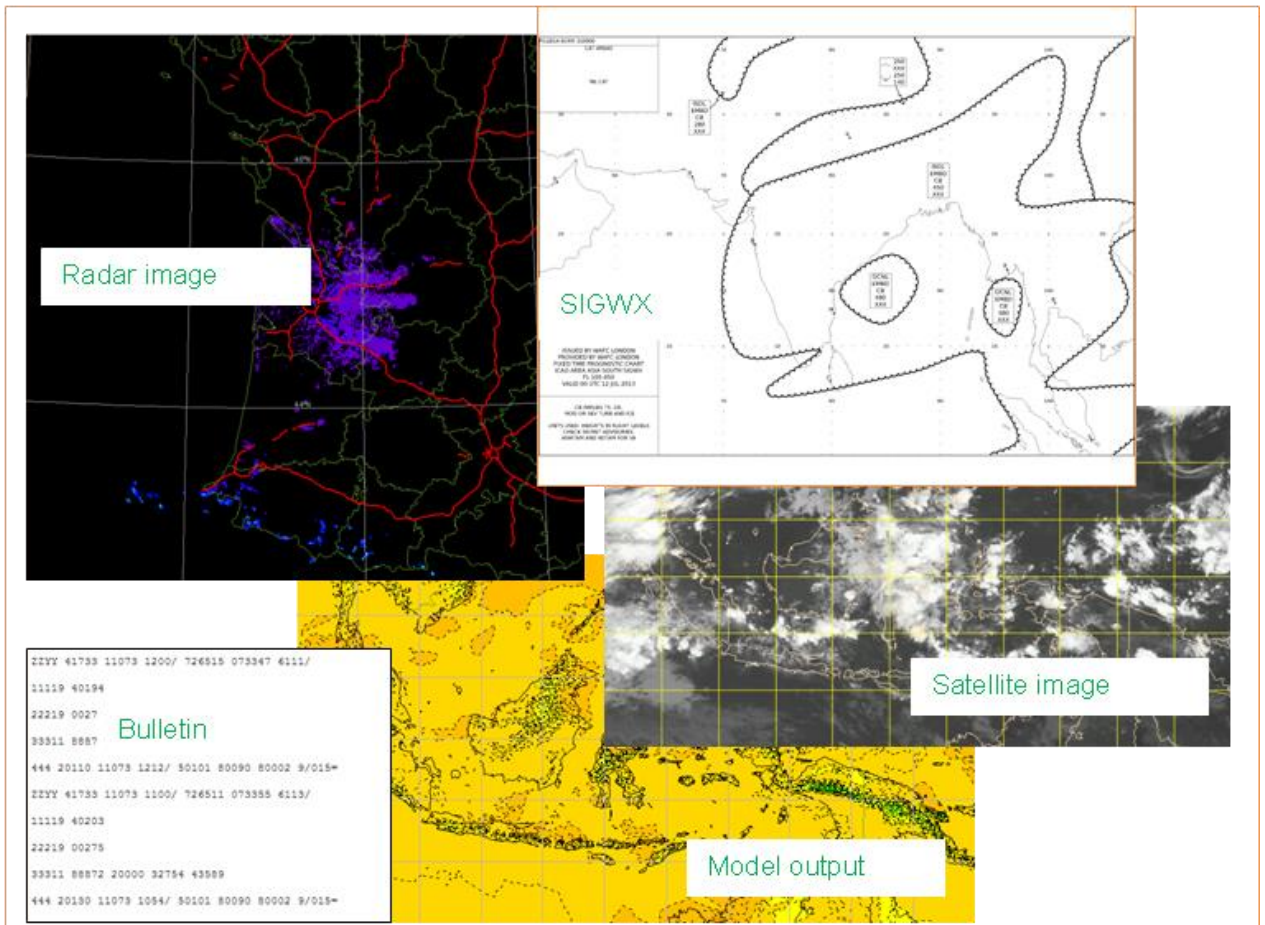
⇒ The "Google" of meteorological data

As a summary, let say OpenWis is the "Google" of meteorological data. For an anonymous user, OpenWis is a search engine that allows discovery, access and retrieval of meteorological products from a global products catalogue: the WIS catalogue.

The search in the catalogue is performed using keywords (what?), geographic criteria (where?) or temporal criteria (when?).

⇒ Meteorological product

A meteorological product goes from meteorological data like a satellite image, or a bulletin to an added value data like imagery processing or numerical weather forecaster computation.



Examples of meteorological products

⇒ The WIS catalogue

The WIS catalogue may be compared to the catalogue of a big library.



WIS library

⇒ **The metadata**

A metadata is a single element of the WIS catalogue. As a card describes a book in Library, a metadata describes a dataset in WIS.



Catalogue element

A metadata is also defined as “data about the data”

The metadata describes what information exists within the WMO communities, what it contains, where it is located and how to retrieve the information. Metadata is required for various purposes, for example for:

- the use of the data (e.g. sensor types used at an observing station) or
- for the discovery of the data (what, where, when, who)

1.2 WIS centers and roles

1.2.1 Origin of OpenWIS

The World Meteorological Organization (WMO) has been working for several years towards upgrading its global infrastructure to support all of its international programs of work, both operational and research-based, to collect, share and disseminate information. The new infrastructure is called the WIS, the WMO Information System

1.2.2 WIS centers

The WIS identifies three top-level centres. These are:

- GISC: Global Information System Centre;
- DCPC: Data Collection and Production Centre;
- NC: National Centre.

All three kinds of centres, contribute to the circulation of priority data, system wide security, monitoring and implementation of WMO data policies. GISCs and DCPCs allow the Discovery Access and Retrieval (DAR) of data, products and services offered by WIS Centres, but GISCs offer a global view of this information and provide distributed and resilient access to critical data and products.

OpenWIS supports a NC only, DCPC only and GISC only deployments.

1.2.3 Center roles

1.2.3.1 GISC

GISCs have the following features:

- Hold and distribute copies for at least 24 hours (Cache) of current WMO data and products intended for global distribution
- Host one metadata repository (Catalogue)
- Have one dedicated Web portal
- Provide DAR functionalities:
 - Discovery, which corresponds to metadata search, is done only on its metadata repository (no distributed Discovery). The metadata contained in the GISC catalogue are related to the Global Data, plus the data intentionally exposed by DCPCs and NCs and harvested by the GISC.
 - Access function is accessible from the GISC Web interface (but not necessarily hosted by the GISC itself)
 - Retrieve (dissemination) of Global Data only from the Cache
- Harvest metadata (Global Data + intentionally exposed products) from DCPCs and NCs that have been defined and configured under their responsibility
- Synchronize with other GISCs to hold a global Catalogue and the Cache of Global Data
- Host their own user repository
- Support mutual backup services

1.2.3.2 DCPC

DCPCs have the following features:

- Host a metadata repository (local Catalogue)
- Have one dedicated Web portal
- Provide DAR functionalities on its local data only, some of which may be Global data and products
- Harvest metadata (Global Data) from NCs that have been defined and configured under their responsibility
- Host their own user repository

1.2.3.3 NC

NCs are responsible for collecting and providing observational data and products intended for global or regional distribution to their responsible GISC or DCPC, and distributing data on a national basis.

1.3 OpenWIS functions

OpenWIS user portal provides the following functions:

Page	Service/Menu	Function	Description
<i>Home</i>		<i>Normal search</i>	Full text and geographical search features to find metadata
		<i>Advanced search</i>	Various search features to find metadata
		<i>What's new</i>	Show the last metadata inserted/updated
		<i>Last products</i>	Available only when user is logged in: shows the last products requested by the connected user
	<i>Search result</i>	<i>Request</i>	Retrieve a particular product once
		<i>Subscribe</i>	Retrieve products based on event or recurrent basis

		Other actions	Provide: - links to request/subscribe on producer in case the request/subscribe is done on Cache - links to external URL referenced in the metadata
		View metadata	Display a full or partial view of the metadata
		Edit	Edit a metadata
		Save metadata as xml	Export the metadata as xml format
Register			Possibility for an anonymous user to register into the system
My account	Metadata service	Create metadata	Create a new metadata record from an existing metadata template
		Insert metadata	Insert a new metadata record in the system from an metadata XML file
		Browse my metadata	Offer a view of all the metadata created by the connected user, and its extracted attributes
	Track my request	Requests	Consult and manage the requests the user has performed, on the current Centre but also on connected remote Centres
		Subscriptions	Consult and manage the subscriptions the user has performed, on the current Centre but also on connected remote Centres
	Personal information	User information	Edit user information. Provide also a way to manage user favourites of dissemination
		Change my password	Change user password

1.4 User profiles

OpenWis identifies the following profiles of the user portal:

User profile	Role
Anonymous user (not authenticated)	Search / Consult metadata
User (authenticated)	Search / Consult metadata and Request / Subscribe
Editor (authenticated)	Search / Consult metadata / Request / Subscribe and Create/Insert/Browse metadata

1.5 Getting started

Proceed as follows:

1. Enter the portal URL in your Web browser:
<http://<your.domain>/openwis-user-portal/srv/en/main.home>
2. On the left top of the page, select your language.



3. On the right top of the page, click **Login**.

4. Enter your **User name** and **Password** and click **Connection**.
The home page is displayed.

1.6 Home page

The screenshot shows the DCPC Meteo France International home page. At the top, there are logos for MFI (Meteo France International), DCPC, and OpenWIS. A navigation menu is located below the logos, containing links for Home, My Account, About, and Help. The main content area is divided into several sections:

- Search Component:** Located on the left, it features a search bar with 'Normal Search' and 'Advanced Search' options. Below the search bar is a world map and a list of search options. Buttons for 'Reset' and 'Search' are at the bottom.
- Content Component:** A large central area with the heading 'FIND INTERACTIVE MAPS, GIS DATASETS, SATELLITE IMAGERY AND RELATED APPLICATIONS'. It includes the 'OPENWIS PURPOSE IS:' section with bullet points: 'To improve access to and integrated use of spatial data and information', 'To support decision making', 'To promote multidisciplinary approaches to sustainable development', and 'To enhance understanding of the benefits of geographic information'. It also mentions 'OpenWIS allows to easily share geographically referenced thematic information between different organizations. For more information please contact:'.
- What's New:** A section on the left listing recent updates, such as 'HRUA33 GRIB bulletin available from LFPWV (TOULOUSE RTH) at 00 and 12 UTC' and 'SMXA14 bulletin available from LFPWV (TOULOUSE (ARGOS)) at 00, 06, 12 and 18 UTC'.
- Last Products:** A section at the bottom left listing recent products, such as '11-07-2013 14:16 - GFS Model - Entire globe - 0.5 degree resolution' and '11-07-2013 13:08 - Rainfall intensity - RADAR image - Bordeaux area (FRANCE)'.

Callout boxes on the right side of the page identify these components: 'Menu', 'Content component: welcome message or search result', 'Search component', 'What's new', and 'Last products'.

The Home page of the User Portal is designed as follows:

- The search component: provides :
 - normal search: basic full text and geographical search features
 - or advanced search: various search features including temporal criteria
- The “What’s New” component: shows the last metadata inserted or updated
- The Content component: shows the welcome message of the home page or the results of a metadata search
- The “My Last Products” component, available only when user is logged in: shows the last products requested for the connected user

2 HOW TO PERFORM A NORMAL SEARCH?

2.1 Objectives

The **Normal search** offers different criteria to look for metadata, each of them focusing one of the following aspects: What? or Where?

What: the full text search: find all the metadata that contain **all** the specified strings; the search is done on the whole metadata content

Where: the geographical search: find all the metadata which intersect a geographic region of interest (extent). Regions can be defined:

- by drawing a geographical area on a map
- by selecting a predefined region in a drop-down list

You can combine **What?** and **Where?** search to restrict the query (AND search).

Note: **Blank search will find all metadata of the catalogue.**

The following **options** are available:

- sort the results by:
 - relevance (default)
 - change date (metadata date stamp)
 - popularity (popularity increased when the metadata is viewed or edited)
 - rating (unused)
 - title (alphabetic ascending order)
- hits per page

The following actions are available:

- **Search:** perform the search
- **Reset:** clear all search criteria

2.2 Access

- Select **Normal search** in the Search component:



2.3 Search in the catalogue

*Reminder: You can combine **What?** and **Where?** search to restrict the search (AND search).*

Blank search will find all metadata of the catalogue.

1. The **What?** section enables a full text search.

In the **What?** section, enter one or several words or strings (character + number):







Rules:

- The text search is performed on the whole metadata content: title, abstract, URN, publisher name, addresses, etc.
 - Several words separated by spaces are combined into an "AND" search.
 - The search is not case sensitive.
 - Words can be in any order.
 - No support for phrases.
2. The **Where?** section enables a geographic based search. The **Where?** search will find all metadata items whose geographical extent (G) overlaps the search extent (S):



In the **Where?** section, display a search extent by using the following buttons:

Button	Description
	Reset the map
	Zoom in: draw a polygon on the map or click on the map
	Zoom out: draw a polygon on the map or click on the map
	Pan the map: press the left button and drag the map



3. When the relevant map area is displayed, click  and draw manually a rectangle on the map:



Search extent

The **Where?** search will find all metadata items whose geographical extent overlaps the search extent (the drawn rectangle)

Or

- Drop down the predefined region list.
- Select a region:



The **Where?** search will find all metadata items whose geographical extent overlaps the selected region.

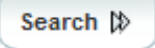
4. Optionally, click  to display options:



5. Select a sorting criteria:
- relevance (default): sort by how close the metadata aligns with the search query.
 - change date: sort by metadata date stamp
 - popularity : popularity increased when the metadata is viewed or edited
 - rating (unused)
 - title: sort by alphabetic ascending order



6. Select **Hits**: the number of result per page (10 per default)

7. To start the search, click .

If needed, a click on  will clear all search criteria.

3 HOW TO PERFORM AN ADVANCED SEARCH?

3.1 Objectives

Note: As the **Advanced search** is quite complex to use, we recommend using the **Normal search** before refining your search with the **Advanced search**.

The **Advanced search** offers different criteria to look for metadata, each of them focusing one of the following aspects: What?, Where?, When?

You can combine **What?**, **Where?** and **When?** search to restrict the query (AND search).

Note: **Blank search** will find all metadata of the catalogue.

3.2 Access

- Select **Advanced search** in the Search component:



The screenshot displays the 'Advanced Search' interface. At the top, there are two tabs: 'Normal Search' and 'Advanced Search', with the latter highlighted in orange. Below the tabs, the interface is organized into sections:

- WHAT?**: A dropdown menu for 'Advanced text search options'. Below it are input fields for 'Title', 'Abstract', and 'Keywords'. There are also dropdown menus for 'Map type' and 'Search Accuracy'.
- WHERE?**: A section with navigation icons (home, zoom in, zoom out, hand, refresh) and a world map. Below the map are input fields for 'lat (min)', 'long (min)', 'lat (max)', and 'long (max)'. There are also dropdown menus for 'Type' (set to 'overlaps') and 'Region'.
- WHEN?**: A dropdown menu.
- Restrict to**: A dropdown menu.
- Options**: A dropdown menu.
- Inspire search options**: A dropdown menu.

At the bottom, there are two buttons: 'Reset' and 'Search'.

3.3 Search in the catalogue

3.3.1 *What?* section

In the ***What?*** section, search criteria are related to the metadata content. Through them, in addition to searching only free text in the entire metadata content, you can also search directly in the Title or Abstract fields and add more keywords to customize further search. You can also specify the level of accuracy you wish to reach in performing your search.

1. Click  to display ***Advanced text search options***:



The screenshot shows the 'Advanced Search' interface. At the top, there are two tabs: 'Normal Search' and 'Advanced Search'. Below the tabs, the section is titled 'WHAT?'. A dropdown menu is open, showing 'Advanced text search options'. Under this menu, there are four input fields: 'Either of the words', 'Exact phrase', 'What?', and 'Without the words'. Below these fields, there are three more input fields: 'Title', 'Abstract', and 'Keywords'.

2. Fill in the fields as follows:

Search option	Description
<i>Either of the word</i>	Find metadata that matches at least one of the specified word ("OR" full text search)
<i>Exact phrase</i>	Find a complete phrase in the metadata content
<i>What?</i>	Same as simple search ("AND" full text search)
<i>Without the words</i>	Exclude text from the search

3. To search by ***Title*** or ***Abstract***, type any text into the respective field.
Same as normal search but restricted to the metadata title or abstract.

Identification info	
Title	WVFI32 bulletin available from EFHK (HELSINKI-VANTAA)
Date	2005-01-20
Date type	Publication: Date identifies when the resource was issued
Title	WMO Information System (WIS)
Date	WMO Information System (WIS)
Nil reason attribute	inapplicable
Code	urn:x-wmo:bulletin:int.wmo.wis::WVFI32EFHK
Presentation form	Digital document: Digital representation of a primarily textual item (can contain illustrations also)
Abstract	<p>---- The bulletin collects TEXT reports.</p> <p>---- The WVFI32 TTAAii Data Designators decode (2) as:</p> <p>T1 (W): Warnings.</p> <p>T2 (V): Volcanic ash clouds (SIGMET).</p> <p>A1A2 (FI): Finland.</p> <p>(2: Refer to WMO No.386 - Manual on the GTS - Attachment II.5)</p> <p>---- WMO No.9 - Volume C1 'Content' field:</p> <p>EFPS FIR</p> <p>---- WMO No.9 - Volume C1 'Remarks' field:</p> <p>IRREGULAR</p>

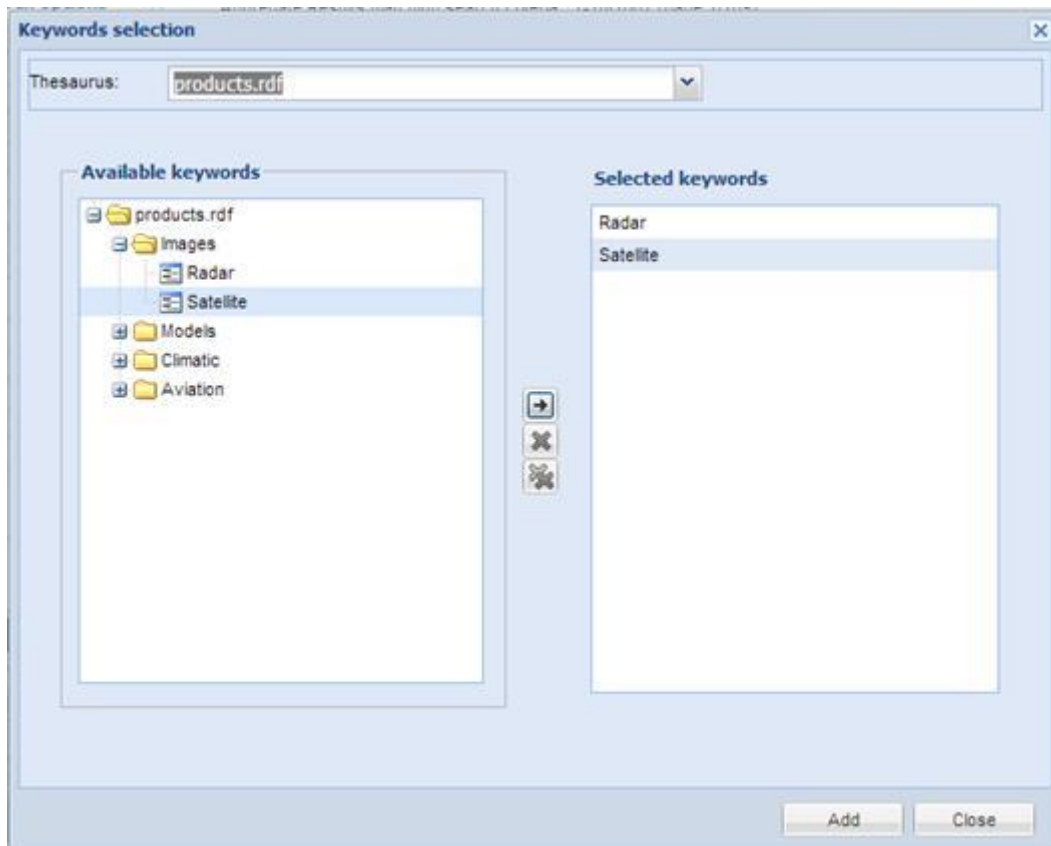
4. **Keywords:** searches for specific keywords in the metadata item:

Identification info	
Title	SYNOP
Date	1920
Date type	Creation: Date identifies when the resource was brought into existence
Abstract	<p>Report of surface observation from a fixed land station is referred to as SYNOP.</p> <p>SYNOP is a numerical code (FM-12-XII) used for reporting weather observations made by manned and automated weather stations. SYNOP reports are typically sent every six hours.</p> <p>Report of surface observation from a mobile land station is referred to as SYNOP MOBIL.</p> <p>SYNOP MOBIL is a numerical code (FM-14-XII) used for reporting weather observations made by a mobile land station.</p> <p>Both reports consist of groups of numbers (and slashes where data is not available) describing general weather information.</p>
Status	On going: Data is continually being updated
Descriptive keywords	Station type , Height of cloud base of lowest cloud base , Visibility , Total cloud cover , Wind direction , Wind speed , Temperature , Dewpoint , Station pressure , Sea level pressure , Pressure tendency , Precipitation amount , Duration over which precipitation amount , measured , Present and past weather , Amount of low clouds covering sky (if no low clouds , the amount of the middle clouds) , Low , middle and high cloud types , Maximum temperature over previous 24 hours , Minimum temperature over previous 24 hours , Snow depth , State of ground with snow cover , Net (Solar) Radiation , Global (Solar) Radiation , Diffused Solar Radiation , Long-wave Radiation , Short-wave Radiation , Net Short-wave Radiation , Direct Solar Radiation , bright sunshine , time of precipitation , national practice , water equivalent .
Access constraints	Restricted: Withheld from general circulation or disclosure
Character set	US ASCII: United States ASCII code set (ISO 646 US)
Topic category code	Climatology, meteorology, atmosphere

- manually: enter list of keywords separated by the '|' character

Keywords

- by clicking  to display the keywords selection dialogue window:



The Keyword selection dialogue window enables the selection of a thesaurus and then the selection of a list of keywords in the selected thesaurus.

When selecting several keywords, a “OR” search is done between each keyword, meaning the result will be all the metadata that contain at least one the specified keywords.

5. **Map type:** select metadata items based on the type of associated media.
6. **Search Accuracy:** allows tuning the fuzzy mode of the search from imprecise to precise; imprecise means we authorize a degree of error in the term matching

3.3.2 *Where?* section

In the **Where?** section, search criteria are related to the geographic extent. They allow you, as in the normal search, either to select your own area of interest or to select a predefined region from the drop-down list. In this section you can also type the geographic coordinates of a specific location that is not available from the above list.

WHERE?




lat (min) long (min)

lat (max) long (max)

Type

Region

1. Define a geographical area as described in the normal search or enter the geographic coordinates of this area.

WHERE?




lat (min) long (min)

lat (max) long (max)

2. Select the search **type** in the drop down list (**overlaps** by default):

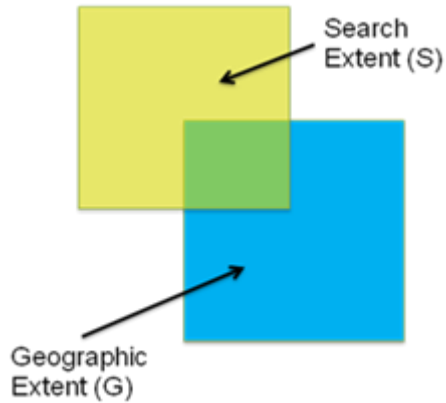
Type

- overlaps
- intersection
- overlaps
- encloses
- is fully outside of
- crosses
- touches
- within

The search type allows advance geometric tests between the search extent and the geographic extent:

- The search extent and geographic extent are treated as rectangles.

- A relationship between the geographic extent and search extent is selected.
- If a metadata item with a geographic extent has the selected relationship with the search extent, the metadata item will be returned.



Type	Description	Graphical explanation
overlaps	All maps with geographic extent overlapping the search extent will be displayed in the results, i.e. the neighbouring countries, the continent of which that country is part of and the global maps.	
intersection	Both the geographic extent and the search extent have at least one point in common. This includes points on the boundary of the geographic extent.	
encloses	The geographic extent completely encloses the search extent.	
is fully outside of	The geographic extent and search extent and have no points in common. The opposite of intersect.	
crosses	Not used	
touches	The boundary of the geographic extent touches, but does not cross, the boundary of the search extent. This includes search extents touching a corner of the geographic extent.	

within	The geographic extent is completely contained within the search extent.	
---------------	---	--

Note: MFI thanks Leon Mika (ITB- SSS) from the Australian bureau of Meteorology for providing the explanations and drawings used in the above table.

3.3.3 When? section

The **When?** section gives you the possibility to restrict your search in terms of:

- **metadata change date** (date stamp): the date the metadata item was last changed.

Metadata	
File identifier	urn:x-wmo:md:int.wmo.wis::HRUA30LFPW
Character set	UTF8: 8-bit variable size UCS Transfer Format, based on ISO/IEC 10646
Hierarchy level	Series: Information applies to the series
Hierarchy level name	Series of WMO GTS bulletins
Date stamp	2012-08-03T10:48:26
Date stamp	
Date that the metadata was created (YYYY-MM-DDThh:mm:ss)	
mandatory	

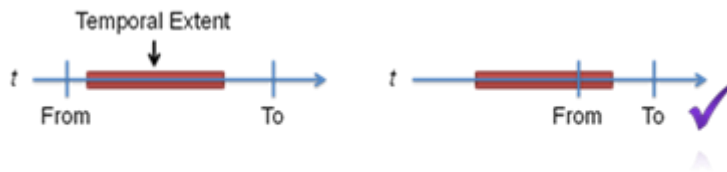
Both the **From** and **To** dates are required.

- **temporal extent:** time period covered by the content of the dataset:

Temporal Extent	
Temporal Extent	
Time period covered by the content of the dataset	
Begin date	2009-03-24
End date	2009-03-24
Indeterminate position	now

Both the **From** and **To** dates are required.

If the temporal extent of the metadata overlaps the period between the From and To date, it will be returned:



3.3.4 Restrict to section

Restrict the search scope to:

- Category: a specific category of metadata or any category
- Kind: template or metadata or any (both)

Restrict to

Category

Kind

3.3.5 Options section

Used to sort the results list.

Options

Sort by:

Hits per page:

3.3.6 Inspire search options section

Not used

3.3.7 Start the search

- To perform the search, click

If needed, a click on will clear all search criteria.

4 HOW TO UNDERSTAND THE RESULT OF THE SEARCH?

4.1 List of results

After a click on the **Search** button, the central part of the User Portal displays the paginated result of the search: a list of the metadata records that should fit your request.

Note: If your search has provided too many results, we advise you:

- 1. To refine the search by combining What and Where criteria*
- 2. To use the **Advanced search** to combine, What, Where and When criteria (refer to paragraph 3).*

The screenshot shows the GISC (Geo-Information System for Climate) search results page. The page is titled "GISC" and "Meteo France International". It features a search bar on the left with the text "fire satellite" and a "Search" button. Below the search bar is a map of Africa. The main content area displays a list of search results, each with a title, abstract, and keywords. The results are paginated, with a "Page 2" indicator at the bottom. Annotations with callout boxes highlight specific elements: "Search criteria" points to the search bar, "Number of results" points to the text "Aggregate Results matching search criteria: 1-10/14 (page 1/2)", and "Navigation into the results pages" points to the pagination controls at the bottom of the page.

For each record, the result page shows the title, an abstract and the keywords.

Each record has the following structure:

HPVH97 GRIB BULLETIN AVAILABLE FROM EGRR (EXETER) AT 00 AND 12 UTC

Request Subscribe Other actions

■ **Abstract**
 --- The bulletin is coded as GRIB code form: FM 92 (GRIB, General regularly-distributed information in binary form) . (Refer to WMO No.306 - Manual on Codes for the definition of WMO internation...

■ **Keywords**
 atmospheric conditions

Unknown Owner

Metadata title

Actions on the product:
 - Request (for registered user)
 - Subscribe (for registered user)
 - Other actions (links to referenced URL)


Actions on metadata:
 - View
 - Export as xml

Metadata abstract and keyword

Metadata owner

4.2 View Metadata

The full metadata content allows you to check you have found the dataset you are interested in.

- Click  to display the metadata view:

GOES_SPACE_IR

View - Simple

Identification info

Title: GOES_SPACE_IR
 Date: 2010-11-08
 Date type: **Publication:** Date identifies when the resource was issued
 Code: urn:x-imo:md:mfi-cps:ingdb.goes.space-75w.ir_mfi
 Presentation form: **Digital document:** Digital representation of a primarily textual item (can contain illustrations also)
 Abstract: GOES Satellite imagery

Point of contact

Organisation name: MFI	Delivery point: 9,rue Michel Labrousse
Role: Point of contact: Party who can be contacted for acquiring knowledge about or acquisition of the resource	City: Toulouse
	Postal code: 31100
	Country: France
	Electronic mail address: cedric.bergeron@mfi.fr
	Online resource: http://www.mfi.fr

rel:TM_PeriodDuration: 0 year(s) 0 month(s) 0 day(s) / 6 hour(s) 0 minute(s) 0 second(s)
 Update scope: **Dataset:** Information applies to the dataset
 Descriptive keywords: GOES , Satellite , Imagery , Infrared (theme).
 Use limitation: cps-public
 Use constraints: **Other restrictions:** Limitation not listed
 Spatial representation type: **Grid:** Grid data is used to represent geographic data
 Distance: 0.5 http://standards.iso.org/ittf/PubliclyAvailableStandards/ISO_19139_Schemas/resources/urn:ML_gmxUom.xml#deg
 Topic category code: Climatology, meteorology, atmosphere
 Environment description: mfiDataSource

Extent

Geographic bounding box

457,03125, 203,80028

Distribution Information

Distributor

Organisation name: MétéoFrance International Central Information Production Center - CIPS
 Role: **Resource provider:** Party that supplies the resource
 Online resource: [Request \(Provider\)](#)
 Online resource: [Subscribe \(Provider\)](#)

Distributor

Organisation name: MétéoFrance International Central Information Production Center - CIPS
 Role: **Resource provider:** Party that supplies the resource
 Online resource: [Request \(Provider\)](#)

Transfer options

Online resource: [Request \(Provider\)](#)

Transfer options

Online resource: [Subscribe \(Provider\)](#)

Data quality info

Hierarchy level: **Dataset:** Information applies to the dataset
 Code: Conformity_001
 Codespace: INSPIRE
 Title: INSPIRE Implementing Rules
 Date: 2011-05-15
 Date type: **Publication:** Date identifies when the resource was issued
 Pass: true

Metadata

File identifier: urn:x-imo:md:mfi-cps:ingdb.goes.space-75w.ir_mfi
 Character set: **UTF8:** 8-bit variable size UCS Transfer Format, based on ISO/IEC 10646
 Hierarchy level: **Dataset:** Information applies to the dataset
 Hierarchy level name: GOES_SPACE_IR
 Date stamp: 2012-10-12T12:56:25
 Metadata standard name: ISO 19115-2 Geographic information - Metadata - Part 2: Extensions for imagery and gridded data
 Metadata standard version: ISO 19115-2:2009-02-15
 Maintenance and update frequency: **As needed:** Data is updated as deemed necessary

Contact

Organisation name: MétéoFrance International Central Information Production Center - CIPS	Voice: 123456
Role: Author: Party who authored the resource	Electronic mail address: cedric.bergeron@mfi.fr

Contact

Individual name: CIPS	Voice: 123456
Organisation name: MétéoFrance International Central Information Production Center - CIPS	Facsimile: 123456
Role: Author: Party who authored the resource	Delivery point: 9,rue Michel Labrousse
	City: Toulouse
	Postal code: 31100
	Country: France
	Electronic mail address: cedric.bergeron@mfi.fr
	Online resource: http://www.imo.int/iaoes/proc/www/WIS/iewiki/hi-index.php?base=metadatasom.fr

Online resource: [WMO Core Profile of ISO 19115, v.1.2, IPTC-4MOL1 implementing guidelines](#)

4.3 Links to referenced URL

The **Other actions** button provides links to external URL referenced in the metadata:



5 HOW TO ACCESS PRODUCTS?

5.1 Introduction

The catalogue search is used to find the type of data you are looking for:

- Search for the metadata item you are interested in (refer to the paragraph [4](#)).
- Access the products of interest from the search results (described below).

5.1.1 What type of products can be retrieved?

⇒ Products provided by a GISC

- Initially the GISC catalogue will only contain Global products: WMO Essential and Additional data, as defined under WMO Resolutions, 40 (Cg-XII) and 25. All "essential" products are for unrestricted (including commercial) use. For the use of the "Additional" products, please read the WMO resolution 40 (CG-XII) and please refer to the conditions of the product owner.
- The GISC catalogue offers also metadata of Local products intentionally exposed by DCPCs and NCs but the products cannot be retrieved directly: the GISC portal will only offer a link to the producer interface.

⇒ Products provided by a DCPC

- Local Products that are associated to a metadata item within the DCPC catalogue; either a proper metadata item, or a Draft metadata item.

5.1.2 How to retrieve products?

When you have an account and are logged in, you can access to following actions:

- Perform a **Request**:
 - Access any number of products for a particular metadata item currently available in OpenWIS.
 - Immediate retrieval of products.
 - One time delivery of products.
- Perform a **Subscription**
 - Regular delivery of products of a specific metadata item.
 - Products can be sent as soon as they become available, OR can be queued to be delivered at a regular time interval.
 - Subscriptions are active until they are paused or removed.
- Access to a link to request/subscribe on producer in case the request/subscribe is done on Cache (**Other action**)

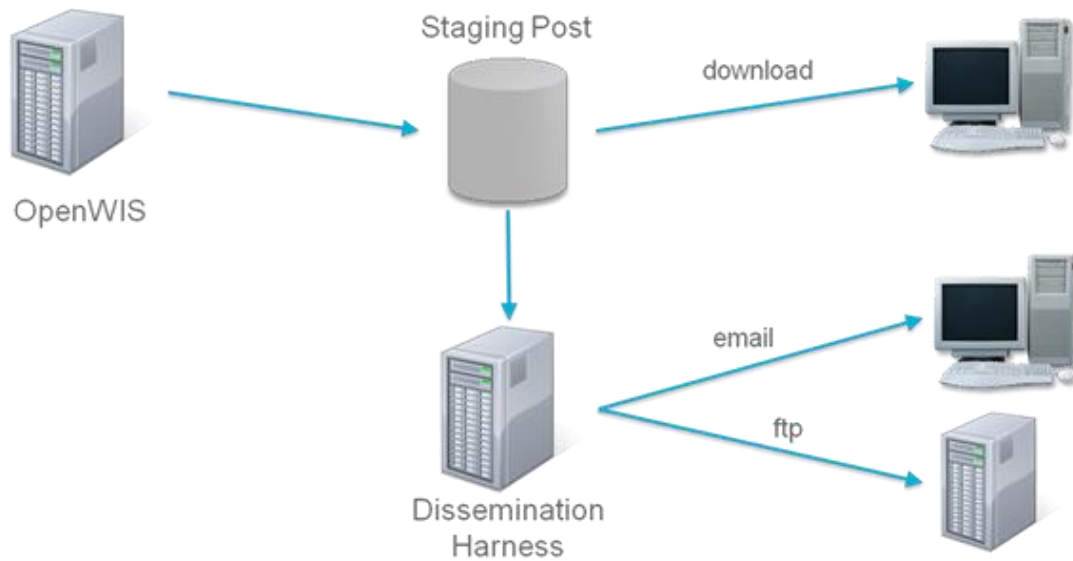
5.2 Product delivery

Note: MFI thanks Leon Mika (ITB- SSS) from the Australian bureau of Meteorology for providing the explanations and drawings used in the current paragraph.

5.2.1 Product delivery methods

OpenWis provides the following delivery methods:

- Staging Post: Product can be access through the browser.
- Email: Product is sent as an attachment in an email.
- FTP: Product is transferred to a remote host via FTP.



Product delivery methods

5.2.2 Delivery method summary

	Staging Post	Email	FTP
Setup	Easy	Moderate	Moderate
Product sent via	Download using web browser	Attachment in email	File transfer
Consumable by	Humans	Humans	Automated systems
Suitable for	Small products consumed occasionally	Moderately sized products consumed regularly	Large products consumed frequently
Successful product delivery assurance	None	None	Ensures each file has been transmitted
Product delivery validation assurance	None	None	Ensures file sizes of source and transferred files are equal

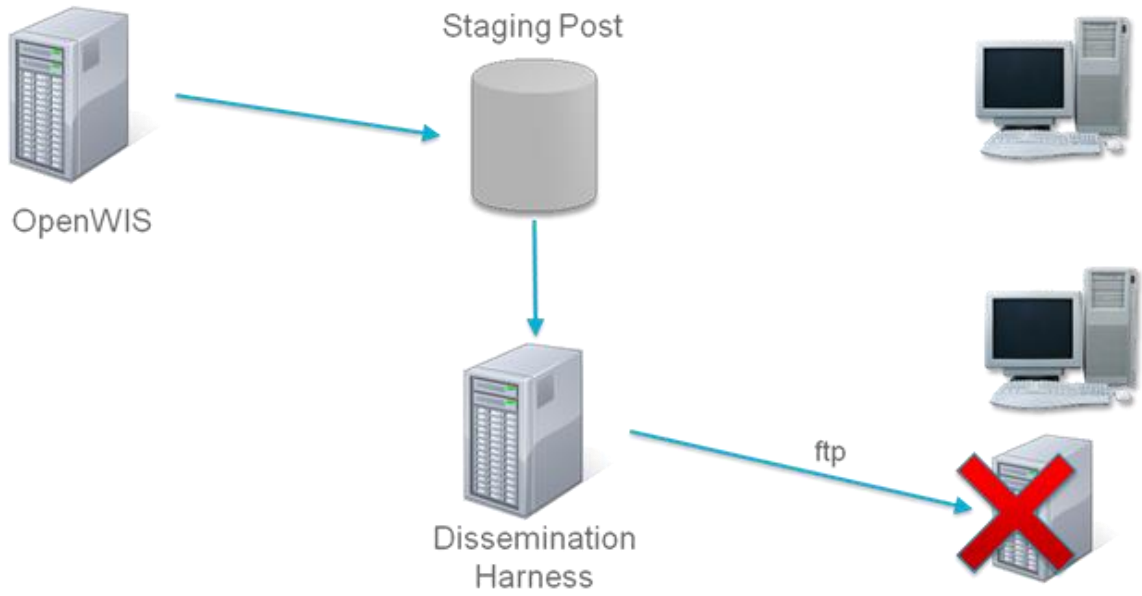
5.2.3 Product delivery failures

Each delivery mechanism has a different level of assurance in whether or not your product has been delivered without error.

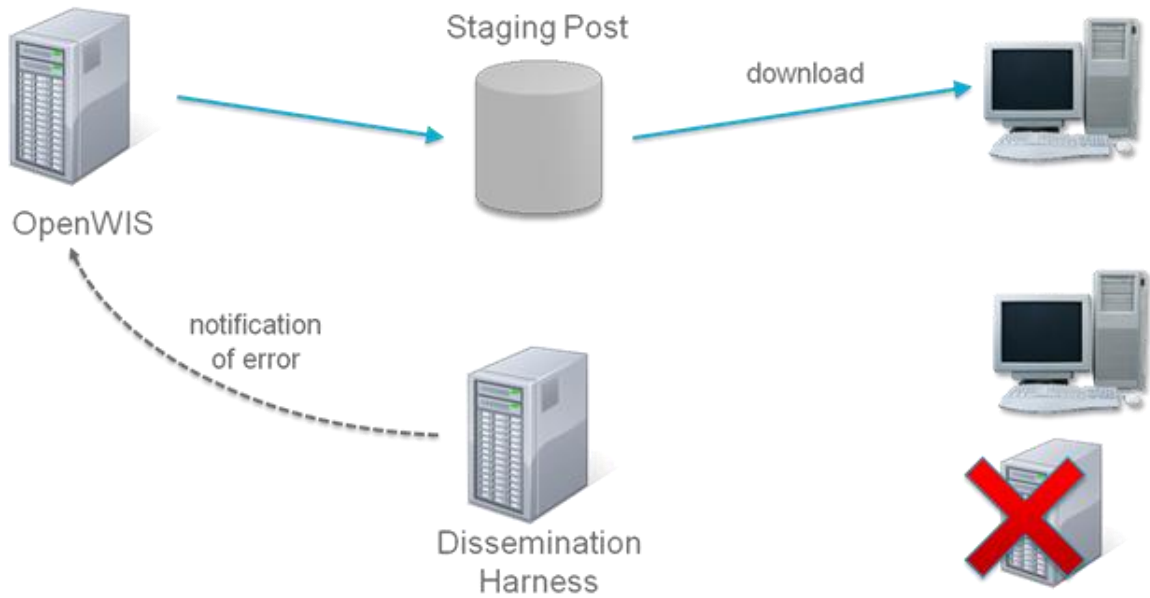
- Products sent via the Staging Post or Email have no assurance of successful delivery from OpenWIS.
- Products sent via FTP have full assurance of successful delivery.

When OpenWIS has detected that a product was not received successfully, it will perform a product redelivery operation:

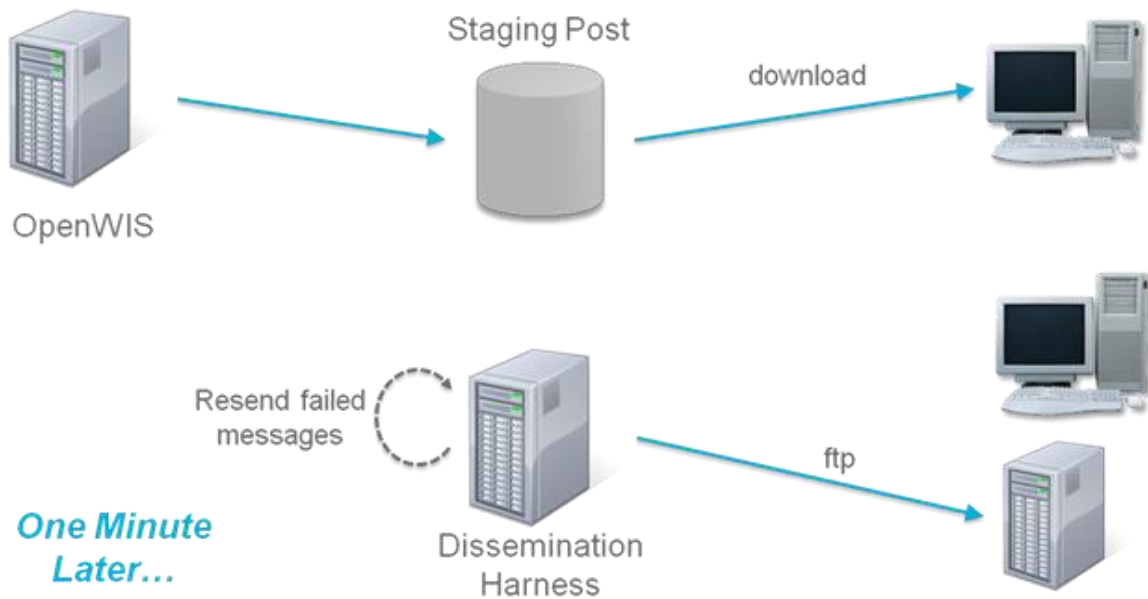
1. Failure detection:



2. Notification of error:



3. Failed messages are resent:



5.3 Request a product

The request mechanism allows retrieving a particular instance of a product once.

The request mechanism is done in several steps:

1. Definition of the sub-selection parameters to select the expected product instance(s)
2. Definition of the primary dissemination to select how to receive the product
3. Definition of the secondary dissemination (in case the primary fails)

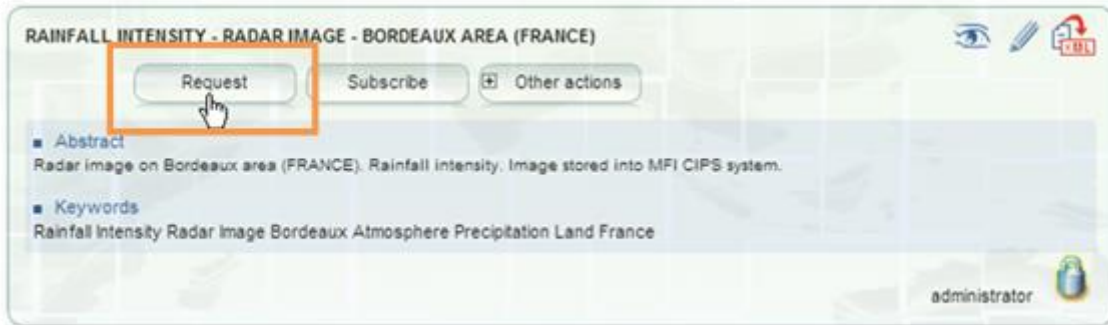
The step 1 is the definition of the sub-selection parameters and depends on the type of product and on the kind of deployment the request is performed. The following table gives an overview of the kind of request depending on the type of product and the type of deployment:

	GISC	DCPC or NC
Global Product	Request on cache	Local Data Source Request
Local Product	Open a new Web page on the producer to allow accessing this product (to authorized user only)	Local Data Source Request

The step 2 and 3 are common to all cases.

5.3.1 Access

- Click **Request** on a metadata item in the search result:



5.3.2 Step 1: Sub-selection parameters

⇒ Request on Cache

If OpenWis is deployed on a GISC and the product is global (for example a bulletin), the Create a request from cache tab is displayed as follows:

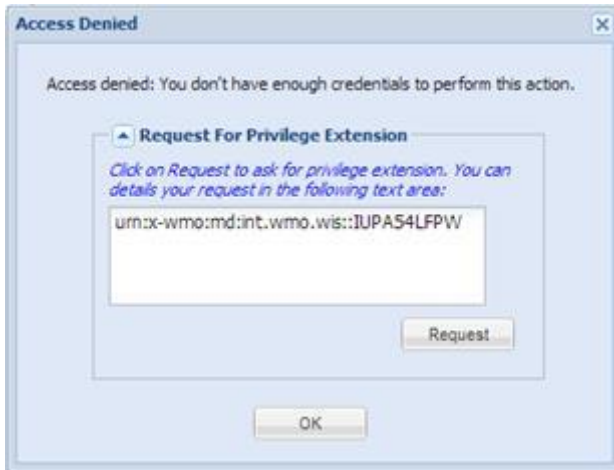
File	Checksum
A_SMVD11RJTD160000_C_RJTD_20130716000000.txt	70d95ec2da7e76277e37407bf81be1b1
A_SMVD11RJTD160600_C_RJTD_20130716060000.txt	ce56aa665407725266c555a2e46bf36
A_SMVD11RJTD161200_C_RJTD_20130716120000.txt	5f7ac8d1ee4e7bb38a8a4668b3bd375e

The tab allows the selection of particular product instance (file).

A filter based on product date (time in UTC) helps finding the expected file.

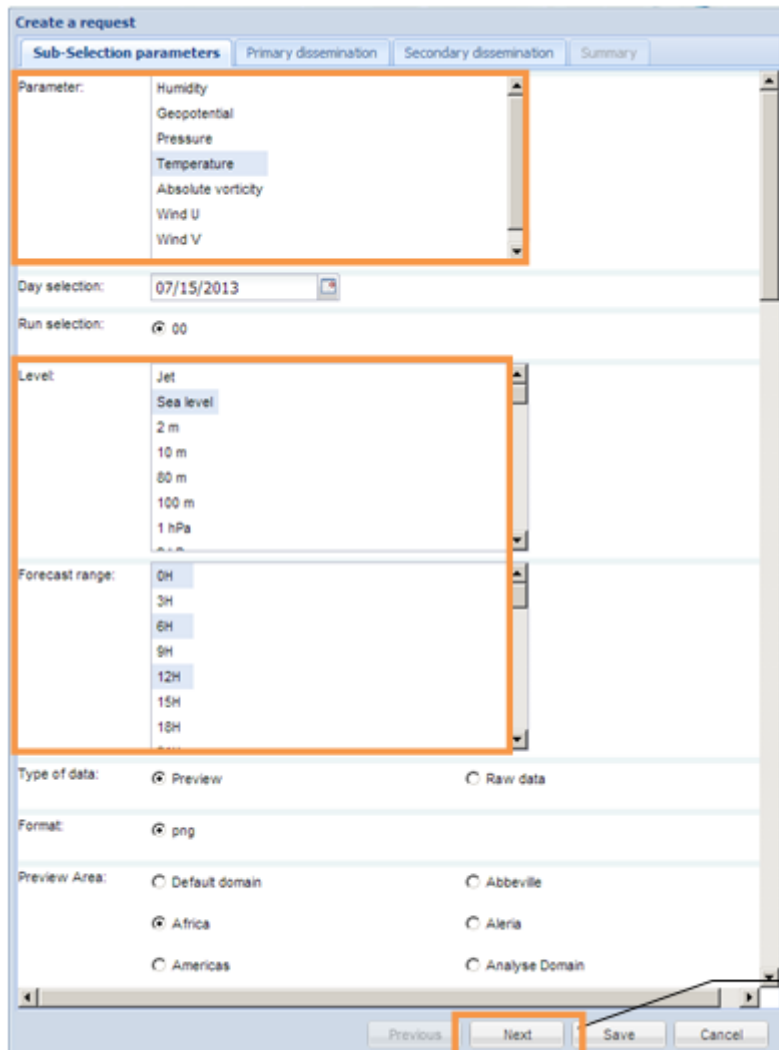
⇒ Request on restricted data

If OpenWis is deployed on a GISC and the product is local, the click on the **Request** button could display the following window:



⇒ Request on Local Data Source

If OpenWis is deployed on a DCPC or a NC, the Create a request tab is displayed as follows:



Multiple selection:
Ctrl+click
or
Shift+click

Go to next step

The Request on Local Data Source depends on the kind of requested metadata. The system allows each producer to describe the sub-selection parameters best adapted to find the correct product instance.

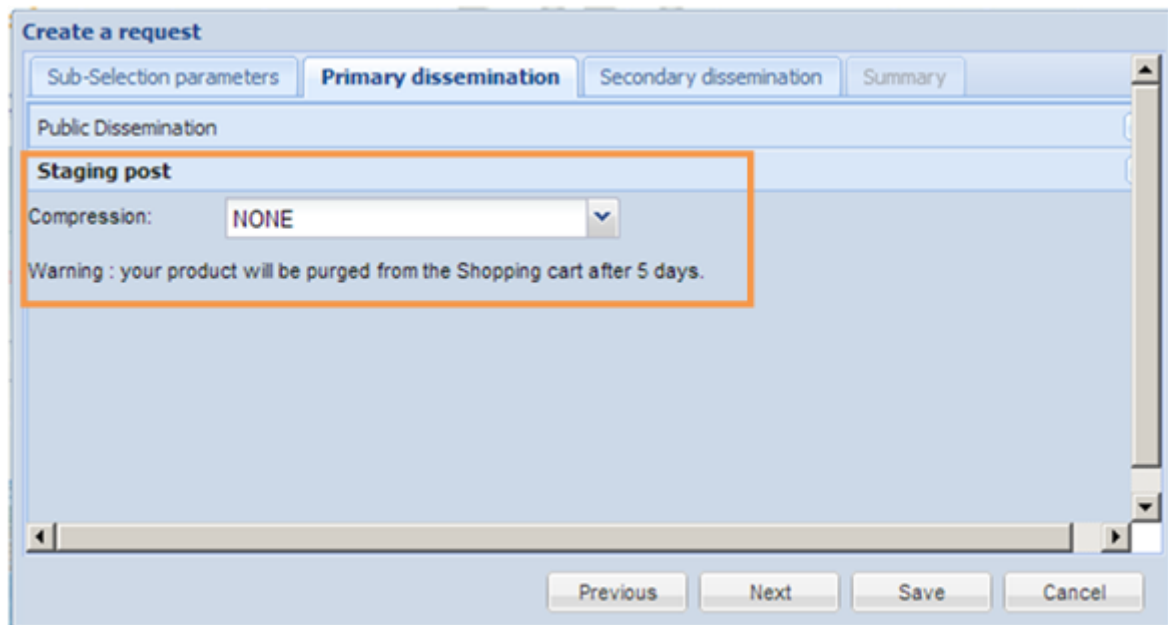
The sub-selection parameters consist in a line by line selection of parameters, to define the query that will be performed to the data source.

5.3.3 Step 2: Primary dissemination

Depending on the user rights and the deployment capabilities, several dissemination alternatives are available (for primary and secondary disseminations) to retrieve the product instance.

⇒ Staging Post:

The product instance(s) will be stored and made accessible on OpenWIS system for a certain amount of time; the product can be accessed from the **My Account / Track My Request** section (refer to paragraph [6.1](#)). This alternative is selected by default.

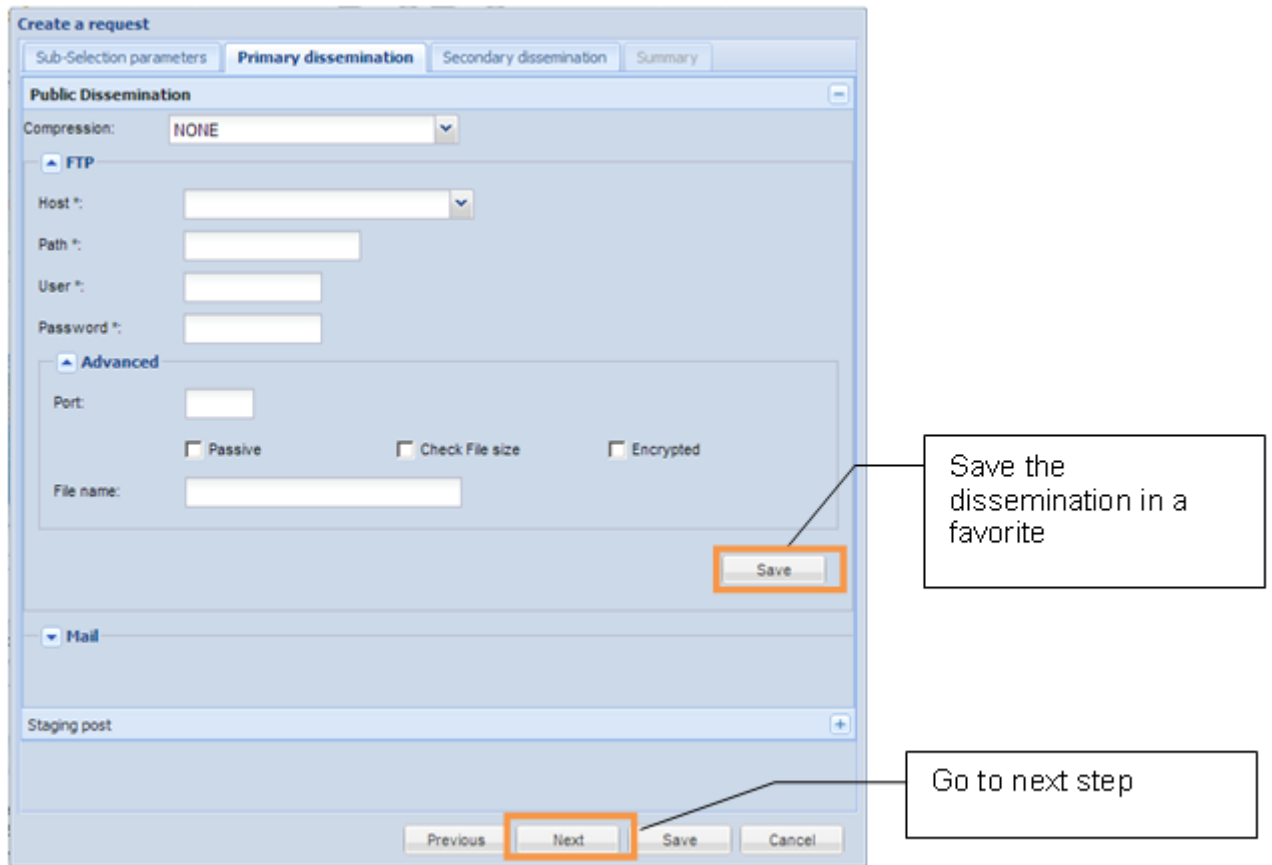


The screenshot shows a web-based dialog box titled "Create a request". It has four tabs: "Sub-Selection parameters", "Primary dissemination" (which is active), "Secondary dissemination", and "Summary". Under the "Primary dissemination" tab, there is a section for "Public Dissemination" and a sub-section for "Staging post" which is highlighted with an orange border. In the "Staging post" section, there is a "Compression:" label followed by a dropdown menu currently set to "NONE". Below this, a warning message reads: "Warning : your product will be purged from the Shopping cart after 5 days." At the bottom of the dialog, there are four buttons: "Previous", "Next", "Save", and "Cancel".

- You can select a **Compression** mode:
 - None: no compression (default)
 - Zipped: ZIP compression
 - WMO_FTP: WMO FTP packing

⇒ Public Dissemination:

The product instance(s) can be sent either via FTP or Email.



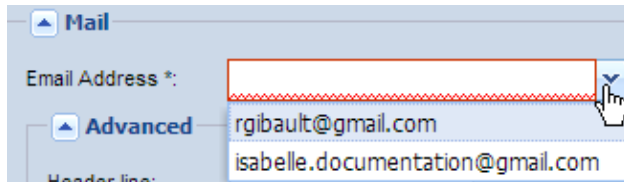
1. Set the following parameters:

FTP		
Host	mandatory	FTP server address
Path	mandatory	Path on which the files will be dropped
User	mandatory	FTP user
Password	mandatory	FTP password
Port	optional	FTP server port
Passive	optional	FTP passive mode
Check file size	optional	Whether the file size should be checked
Encrypted	optional	Not used
File name	optional	The name of the destination file

or

Mail		
Email address	mandatory	The Email address
Header line	optional	Text sent in mail header (must be in the form "Name: Value")
Email TO / CC / BCC	optional (TO by default)	Whether the recipient should be put as TO / CC / BCC of the sent mail
Subject	optional	Subject of the email
Attachment mode	optional (As Attachment by default)	Option on how to attach the file to the email
File name	optional	The name of the file sent by email

2. You can select a **Compression** mode:
 - None: no compression (default)
 - Zipped: ZIP compression
 - WMO_FTP: WMO FTP packing
3. To save a favorite dissemination configuration, click **Save**.
To retrieve an FTP or Email favorite: click on the **Host** or **Email address** combo box and select a configuration:



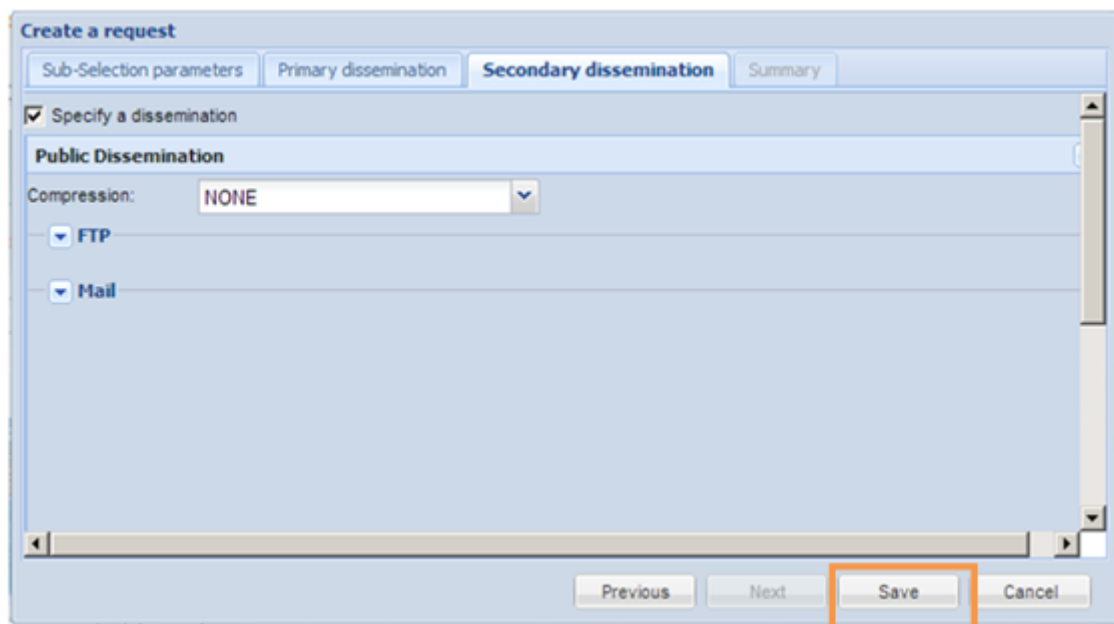
The favorite dissemination can be further edited in the Personal Information page (refer to paragraph [7.1.4](#)).

4. Click **Next** to display the **Secondary dissemination** tab.

5.3.4 Step 3: Secondary dissemination

The configuration of a secondary dissemination (in case the primary fails) is optional.

1. On the **Secondary dissemination** tab, tick **Specify a dissemination**.



2. Proceed as described step 2 to set the secondary dissemination.
3. Click **Save** to submit the request

5.3.5 Summary

Once the request has been submitted a summary is displayed containing the following information:

- the kind of requested data source (Cache or Local Data source)
- the corresponding metadata URN and title
- a table showing the last events (only one for a request) with the status of the request actually processed and the possibility to download the related product instance (if available via the Staging Post)
- Request number

View request 0000487

Sub-Selection parameters Primary dissemination Secondary dissemination **Summary**

User: remy.gibault
Request ID: 0000487
Datasource: mfiDataSource
Product metadata URN: urn:x-wmo:md:mfi-cips:imgdb.toulouse.toulouse_area.radar_io
Product metadata title: Rainfall intensity - RADAR image - Toulouse area (FRANCE)

Created on	Submitted ...	Completed on	Message	Volume
17-07-2013 07:48			Extraction on pr...	

Page 1 of 1


Displaying request 1 - 1 of 1

Download

Previous Next Close

Summary of the request

Refresh button

1. Click  to refresh the display.

The screenshot shows a web interface for viewing a request. The title is 'View request 0000487'. There are four tabs: 'Sub-Selection parameters', 'Primary dissemination', 'Secondary dissemination', and 'Summary'. The 'Summary' tab is active. The interface displays the following information:

- User: remy.gibault
- Request ID: 0000487
- Datasource: mfiDataSource
- Product metadata URI: urn:x-wmo:md:mfi-cips:imgdb.toulouse.toulouse_area.radar_io
- Product metadata title: Rainfall intensity - RADAR image - Toulouse area (FRANCE)

Below this information is a table with the following data:

Created on	Submitted ...	Completed on	Message	Volume
17-07-2013 07:48	17-07-201...	17-07-2013 07:49	Extracted	3.54 KBytes

At the bottom of the table, there is a 'Download' button. A callout box points to the table with the text 'Product delivery details'. Another callout box points to the 'Download' button with the text 'Download from the Staging post'. At the bottom of the interface, there are 'Previous', 'Next', and 'Close' buttons.

2. If the Staging post delivery mode has been requested in the dissemination tab, you can select the product instance and click **Download**.
The product is downloaded from the Staging post

5.4 Subscribe to a product

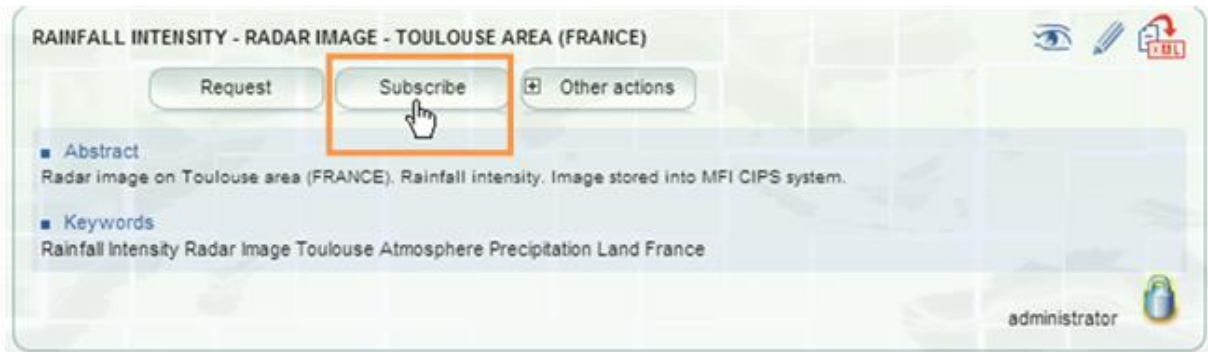
The subscription mechanism allows retrieving products based on event or recurrent basis.

The subscription mechanism is done in several steps:

1. Definition of the sub-selection parameters to select the expected product instance(s) and definition of the subscription recurrence (schedule)
2. Definition of the primary dissemination to select how to receive the product
3. Definition of the secondary dissemination (in case the primary fails)
4. Alternatively definition of a backup subscription on another Centre

5.4.1 Access

- Click **Subscribe** on a metadata item in the search result



5.4.2 Step 1: Sub-selection parameters

⇒ Subscription on Cache

If OpenWIS is deployed on a GISC and the product is global (for example a bulletin), the Create a subscription from cache tab is displayed as follows:

Period selection

Schedule

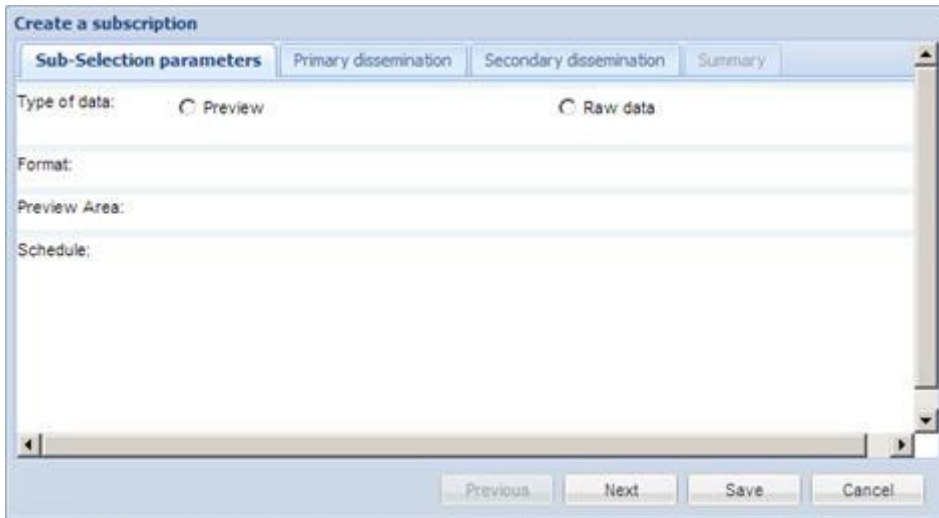
1. Set the following parameters:

Parameter	Description
Period Selection	Which products are of interest: <ul style="list-style-type: none"> - You can specify the time of day products associated with that metadata item should be collected for dissemination. - You can choose individual hours or a continuous time range.
Schedule	You can specify when OpenWIS should deliver products once they have been collected: <ul style="list-style-type: none"> - Deliver products as soon as they are ingested. - Collect products in the staging post and deliver them in batches

2. Click **Next**.

⇒ Subscription on Local Data Source

If OpenWis is deployed on a DCPC or a NC, the Create a subscription tab is displayed as follows:



The Subscription on Local Data Source depends on the kind of requested metadata.

1. Set the selection parameters.
2. Set the **Schedule**.
3. Click **Next**.

5.4.3 Step 2: Primary dissemination

Identical to Request: refer to paragraph [5.3.3](#)

An additional channel of dissemination could be available for subscription:

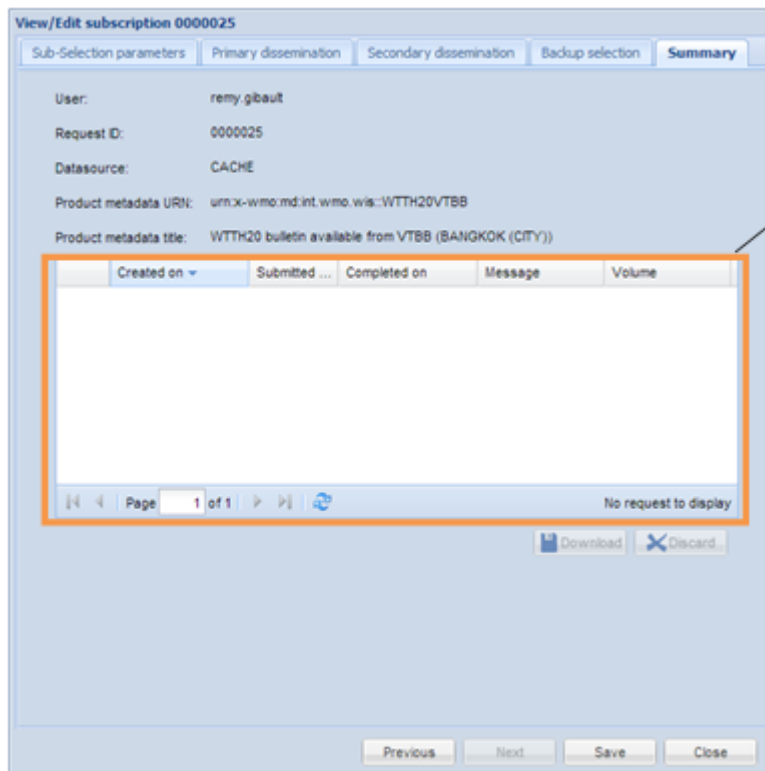
- MSS/FSS: the subscription is managed via the MSS/FSS tool: a Message or File Switching System that allows Partners to exchange data via a private resilient network, the Global Telecommunication System (GTS).

5.4.4 Step 3: Secondary dissemination

Identical to Request: refer to paragraph [5.3.4](#)

5.4.5 Summary

Once the subscription has been submitted a summary is displayed as follows:



Product delivery details

Note: The Product delivery details should remain empty at this stage.

5.4.6 Step 4: Backup selection

For Subscription on Cache (GISC) and authorized users, the **Backup selection** tab is available after the subscription has been submitted.

This allows to select a backup GISC to define a new subscription that will be the backup of the current one.



When clicking on **Go to backup Centre** button, the main page of the backup GISC is opened, with the wizard of subscription creation opened on the same metadata.

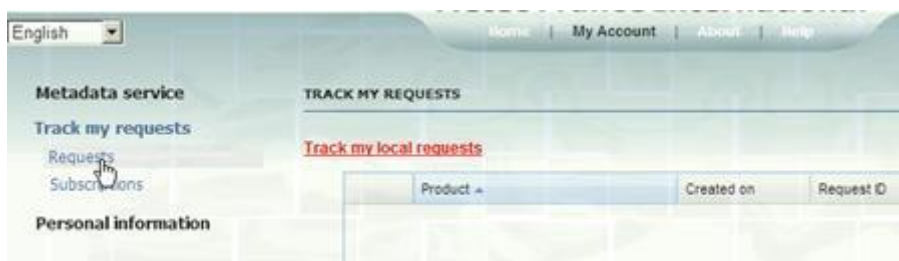
6 HOW TO TRACK MY REQUESTS AND SUBSCRIPTIONS

6.1 Track my Requests

On this page consult and manage the requests you have performed, on the current Centre but also on connected remote Centres.

6.1.1 Access

- Select **My account / Tack my requests / Requests**



6.1.2 Local requests

Track my local requests

	Product	Created on	Request ID	Status	Volume
●	AWIO20 bulletin available from FM...	12-07-2011 12:13	0000007	Complete	
●	AWIO20 bulletin available from FM...	21-07-2011 17:43	0000015	Complete	
●	AWIO20 bulletin available from FM...	21-07-2011 17:46	0000016	Complete	
●	Template for OpenWIS	27-06-2011 18:27	0000001	Complete	

Page 1 of 1 Displaying request 1 - 4 of 4

[View request](#) [View metadata](#) [Download](#) [Discard](#)

The following possibilities are accessible on the local requests:

- **View request:** view the request detail and the history of events occurred on this request
- **View metadata:** view the associated metadata details
- **Download** the product instance(s): if available via the Staging Post
- **Discard:** remove the request and the associated product instances

6.1.3 Remote requests

Select a Centre, the system will contact the remote Centre and gives the list of requests performed on this Centre.

6.2 Track my subscriptions

On this page consult and manage the subscriptions you have performed, on the current Centre but also on connected remote Centres.

6.2.1 Access

- Select **My account / Tack my requests / Subscriptions**

6.2.2 Local subscriptions

Track my local subscriptions

Product	Backup?	Subscription ID	Start	Last event date
AWIO20 bulletin available from FM...	false	0000009	15-07-2011 10:03	19-07-2011 07:11
AWIO20 bulletin available from FM...	false	0000010	15-07-2011 10:07	19-07-2011 07:11
AWIO20 bulletin available from FM...	false	0000013	18-07-2011 18:04	19-07-2011 07:11
AWIO20 bulletin available from FM...	false	0000017	21-07-2011 16:01	
Template for OpenWIS	false	0000011	15-07-2011 11:09	
Template for OpenWIS	false	0000012	15-07-2011 12:13	
Template for OpenWIS	false	0000014	19-07-2011 12:44	

Page 1 of 1 Displaying subscription 1 - 8 of 8

[View/Edit subscription](#) [View metadata](#) [Suspend](#) [Resume](#) [Discard](#)

The following possibilities are accessible on the local requests:

- **View / Edit subscription:** view or edit the subscription details and the history of events occurred on this subscription
- **View metadata:** view the associated metadata details
- **Suspend / Resume:** manually suspend or resume a suspended subscription
- **Discard:** remove the subscription and the associated events and product instances

6.2.2.1 View / edit Subscription

View/Edit subscription 0000010

Sub-Selection parameters Primary dissemination Secondary dissemination Backup selection **Summary**

User: yannick
Request ID: 0000010
Datasource: CACHE
Product metadata URN: urn:x-wmo:md:int.wmo.wis::AWIO20FMEE
Product metadata title: AWIO20 bulletin available from FMEE (SAINT-DENIS/GILLOT (REUNION)) at 12 UTC

Created on	Submitted to Diss. on	Completed on	Volume
18-07-2011 20:18		18-07-2011 20:18	
18-07-2011 20:20		18-07-2011 20:21	
18-07-2011 22:20		18-07-2011 22:20	
19-07-2011 09:11		19-07-2011 09:11	

Page 1 of 1 Displaying request 1 - 4 of 4

[Download](#)

The summary tab shows the most recent events occurred on the selected subscription.

To download product instance(s), select the line of the desired event and click on Download (if available on Staging Post).

Each tab, filled during the subscription creation can also be edited.

6.2.3 Remote subscription

Select a Centre, the system will contact the remote Centre and gives the list of subscription performed on this Centre.

6.2.4 Track MSS/FSS Subscriptions

This page is available only for users that have access to a MSS/FSS Channel and if the local Centre supports it.

On this page, you can:

- Consult the list of subscription present on MSS/FSS that related to the current user
- View/edit an existing subscription
- View the associated metadata detail
- Discard the subscription

7 HOW TO MODIFY MY PERSONAL INFORMATION

7.1 Edit my user information

7.1.1 Objective

The User information contains:

- personal user information: your personal email contact and address.
- favorites for dissemination: FTP accounts or email addresses used by the system to disseminate products

You can edit this both types of information.

7.1.2 Access

- Select **My account / Personal information / User information**

The screenshot shows a web form titled "USER INFORMATION". At the top, there are two tabs: "Personal Information" (which is selected) and "Favorites". Below the tabs, the form is organized into two columns. The left column contains the following fields: "User Name" (j.doe), "Last Name" (John), "New Password" (empty), "Address" (rue de paris), "State" (empty), "Country" (France), and "Contact Email" (j.doe@meteo.fr). The right column contains: "First Name" (Doe), "City" (Toulouse), and "Zip" (31000). At the bottom right of the form, there are two buttons: "Save" and "Cancel".

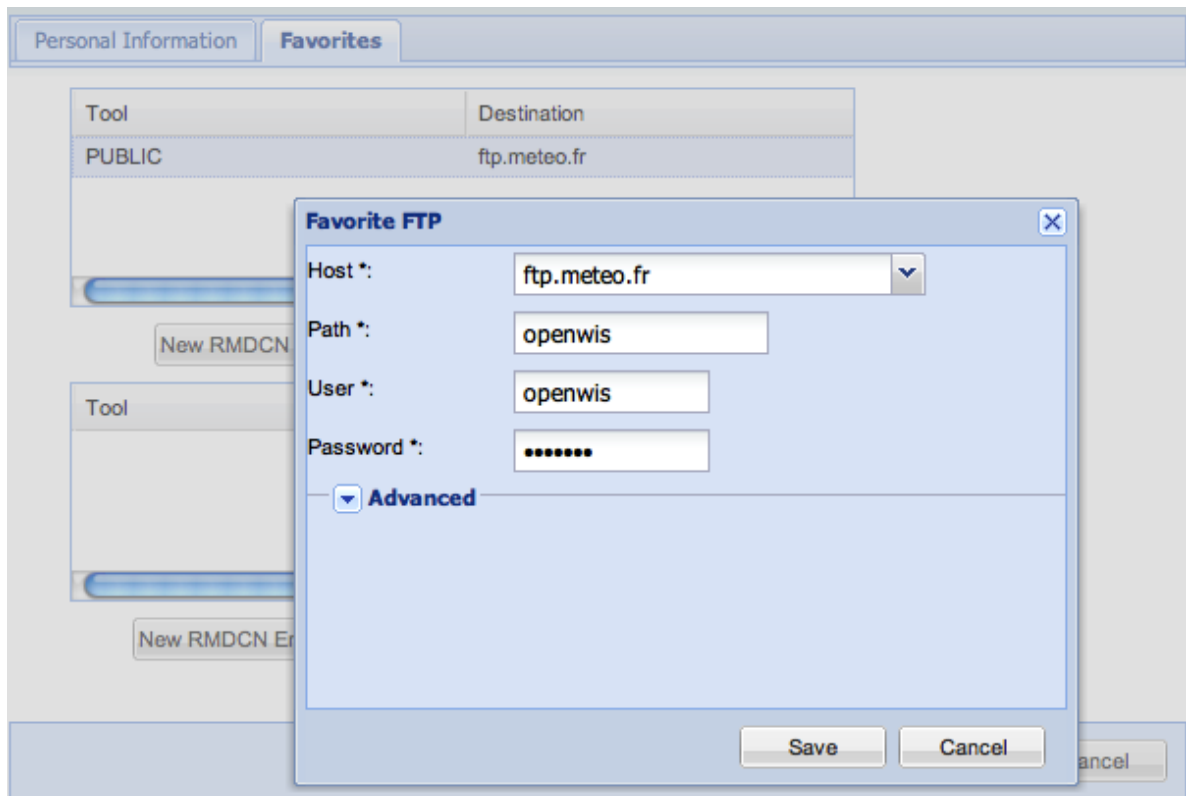
7.1.3 Edit information

- To modify information: select the **Personal information** tab, set the text field and click **Save**.

7.1.4 Manage favorites of dissemination

Favorites are used when requesting/subscribing to a product, to save and retrieve FTP or Email configuration.

1. Select the **Favorite** tab.



2. Create/edit/remove configurations for FTP or Email.
3. Click **Save**.

7.2 Change my password

1. Select **My account / Personal information / Change my password**

A screenshot of a 'CHANGE MY PASSWORD...' dialog box. It contains two input fields: 'Enter new password:' and 'Confirm new password:'. A 'Change Password...' button is located at the bottom right.

2. Enter and confirm your new password.
3. Click **Change Password**.