

# mScope Application

*version 3.7*

## Administrator guide

April 15<sup>th</sup>, 2011

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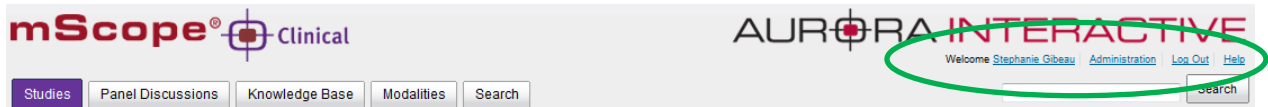
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# 1. Introduction

This guide describes mScope’s Administration functionality for (Clinical, Education, Research and Universal Viewer.)

It is intended for system administrators and IT personnel.



mScope’s header is displayed on all portal pages and includes the following elements:

- User profile: Modify password and configurations
- Administration: Available to users granted with administrator privileges. Functions include: user management, groups, servers, licenses, attributes, configurations, audits, and media.

# 2. Users

The "mScope Users" section allows you to manage user accounts.

Sites: All Sites				All - A - B - C - D - E - F - G - H - I - J - K - L - M - N - O - P - Q - R - S - T - U - V - W - X - Y - Z - Other			
Local Users							
User	Access Information	Site	Actions				
<b>admin</b> Full Name: Administrator Admin Email: admin@ehp.net Groups: Administrators Role sets: Complet	Last login:15-Feb-2011 11:32:57 AM	Default Site					
<b>mscope-api</b> Full Name: MSCOPE-API MSCOPE-API Email: mscope-api@ehp.net Groups: MSCOPE Api Role sets: No role sets	Last login:28-Feb-2011 1:45:40 PM	Default Site					
<b>patho01</b> Full Name: patho 01 Groups: No groups Role sets: Complet	Last login:12-Jan-2011 7:34:46 AM	Default Site					
<b>patho02</b> Full Name: patho 02 Groups: No groups Role sets: Complet	Last login:12-Jan-2011 7:35:10 AM	Default Site					

You can view all users or filter them by the last name of the individual by clicking on the appropriate letter displayed at the top of the section.

The section “Group” displays all groups a user is a member of (see details in the section “Groups”).

Site: In the event where multiple sites are configured, the name of the site associated to the user profile will be displayed.

The Actions column identifies the operations that may be applied to the account.

### 3. Groups

Groups provide Access Control Logic (ACL) to users. This defines what rights a user has as well as forming the basis of user organization.

For example, creating a group "HEMO101 2009" for the students enrolled in a class allows an administrator to grant them all the same level of access.

In addition, it provides a simple method for sharing information with them (see sharing read/write).

Groups		
Name	# of members	Actions
Administrators	2	 Edit
Anonymous Users	0	 Edit
MSCOPE Api	1	 Edit
MSCOPE Users	0	 Edit
Pathologists	1	 Edit  Delete
Super Users	0	

## 4. Role Sets

Role Sets are intended to identify groups of users based on their role(s) in the studies and opinions workflow of the clinical application.

The workflow is configured at the roles level.


The default roles are: technician, pathologist, specialist and transcriptionist.

Combinations of roles can then be defined by creating role sets.

*Example:* A user part of the “technician” role set will not be entitled to modify the “diagnostic” field of a study while a user member of the “pathologist” group will be authorized.

Role sets		Actions
Sync?	Name	
	<b>Complet</b> <small>Roles: Pathologist, Specialist, Technician, Transcriptionist</small>	Update  Delete
	<b>Pathologists</b> <small>Roles: Pathologist</small>	Update  Delete
	<b>Specialists</b> <small>Roles: Specialist</small>	Update  Delete
	<b>Technician</b> <small>Roles: Technician</small>	Update  Delete
	<b>Transcriptionist</b> <small>Roles: Transcriptionist</small>	Update  Delete

### Edit role set ✕



**\* Name:**

**Roles:**


- Pathologist
- Specialist
- Technician
- Transcriptionist

## 5. Permissions

By default, groups are created with no privileges. Adding or editing the permissions of a group is done by selecting "Permissions" under the "Actions" column of the group page.

✕

### Edit group



**\* Name:**

**Permissions:**

Select [All](#), [None](#)

**Access Permissions**

- Access Administration
- Access Library
- Access Tests

**Library Module Permissions**

- Manage Library

**General Permissions**

- Upload Media
- Dispatch Media
- Regenerate Thumbnail
- Generate Light Version of media
- Set Copyright Ownership
- Exports from Viewer (Screenshot, Print, Barcode)

**Atlas Permissions**

- Access Atlas
- Create Case
- Delete All Cases

**Tests Permissions**

- Administer Tests

## 6. Servers

mScope may connect to multiple media and PACS servers depending on the licensing agreement. The "Servers" section lists all defined media servers and provides an "Add Server" for connecting additional media servers.

**Add Server**

Type: MSC Media Server

Servers		Actions
Type	Server	
	Default MSC Media Server http://[RequestServer]:[RequestPort]/mediaapi	<input type="button" value="Edit"/> <input type="button" value="Remove"/> <input type="button" value="Deny"/> <input type="button" value="Test"/>

The media server is broken into 6 sections


- Identity
- Upload Service
- Scanner Service
- Delivery Service
- Ingester Service
- Remote Request Service

### 6.1. Identity

The identity encompasses the

- Display Name - display name in the list of media servers (must be unique)
- Identification Name - the actual name of the media server (must be unique)
- Primary Address - URL of the media server e.g. <http://185.119.1.97:8081/>

**Edit Server**


Type: 

Color: ■

Display Name\*:

Identification Name\*:

Primary Network Address\*:

Availability:  [Test](#)

Secondary Network Address:

Example: <http://www.address.com/mediaapi>  
 Example: <http://192.168.1.109:8080/mediaapi>  
 Example: [http://\[RequestServer\]:8081/mediaapi](http://[RequestServer]:8081/mediaapi)  
 Example: [http://\[RequestServer\]:\[RequestPort\]/mediaapi](http://[RequestServer]:[RequestPort]/mediaapi)

Notes:

## 6.2. Scanner Service

“Directory to Scan” allows you to identify the locations media will reside while “Wait Time between Scans” defines how often they should be checked for new content.

"Auto Start" is used to turn the scanner server on and off. This allows you to turn it off if you only periodically update content.

### Scanner Service

The scanner service scans the given directories for new media and delegates its processing to the ingester service.

Minimum Age :

Wait Time between Scans :

Auto Start? :  Enabled  Disabled

### Directory to Scan

The directories to scan for new media.

1. :

2. :

3. :

4. :

5. :

### Ignore Patterns

The filename patterns to ignore when scanning the directories for new media.

1. :

## 6.3. Parent Directory

Some formats (such as those produced by Zeiss and Olympus) have multiple files associated with a single image. By selecting the Parent Directory Plug-in mScope will display one image using the directory as the name. Otherwise, all files will be read individually.

**Parent Directory Plugin**

This plugin uses the parent directory name of the new media file as the media reference instead of the file name.



### 6.4. Media Thumbnails

If selected, mScope will create thumbnails for all images that are equal to or larger than the specified resolution threshold. If "Overwrite" is set to yes thumbnails will be created every time the scanner searches the folders.

**Media Thumbnail Plugin**

This plugin generates thumbnails of different sizes from the new media that are media.

Resolution Threshold :

Overwrite? :  Yes  No

### 6.5. Video Thumbnails

This option creates thumbnails for video content. If "Overwrite" is set to yes thumbnails will be created every time the scanner searches the folders.

**Video Thumbnail Plugin**

This plugin generates thumbnails of different sizes from the new media that are videos.

Overwrite? :  Yes  No

### 6.6. JPEG Splitter

Though compressed, JPEG images can still be quite large. Rather than to download them completely, mScope provides the option to split them into tiles to make them more efficient for web viewing.

The Quality setting allows you to reduce the size even further.

The Resolution Threshold determines the size an image must be before it is split.

**JPEG Splitter Plugin**

This plugin splits a large JPEG image into multiple smaller tiles.

Quality :

Resolution Threshold :

### 6.7. Light Viewer

The Light Viewer plug-in has been created to assist viewing by creating layers (magnifications) that are not available in the file or improve performance by removing overlapping of tiles from a file. It is currently only available for Zeiss slides.

When selected, mScope will use the lowest layer or highest magnification to generate the required sub layers.

The new layers are created with non-overlapping tiles providing maximum performance when viewing.

**Light Viewer Plugin**

This plugin generates the light viewer version for media, if required.

Quality Level :  ▾

Zeiss SDK Executable :

Temporary Directory :

### 6.8. Remote Notification

Remote Notification allows the ingester to reside on a server other than that of the media server by providing the ingester with the location to send information.

**Remote Notification** \* Fields are mandatory when enabled

This plugin sends a remote notification message to inform that there is a new media available.

URL Address \* :

Example: http://localhost:8080/mscope-education/services/MscServerApi

### 6.9. Upload Service

mScope offers users an upload option so they can add media from their computer to the portal.

“Upload Directory” defines where uploaded media will be stored on the server.

Upload Url is the web address of the Upload directory.

“Ingest Upload Media” specifies whether uploaded media will be added to the portal. If it is set to "No" media will be copied to the location but will not be visible to the user.

Upload Service

The upload service allows to upload new media.

Upload Directory \*:

Example: c:\media\upload

Ingest Upload Media? :  Yes  No

## 6.10. DICOM Proxy Protocol

This protocol allows the media server to serve images stored in a PACS Server.

PACS Server is a list of all PACS Servers available to the media server. You may only have one PACS Server defined for a media server.

AE Title is the AE Title of the selected PACS Server and may be retrieved by viewing the details of the PACS Server.

Host is the IP of the PACS Server and may be retrieved by viewing the details of the PACS Server.

Port is the port the media server will use to communicate with the PACS Server.

DICOM Cache Directory is the location where the media server stores cached thumbnails and images to avoid making unnecessary calls to the PACS server.

**DICOM Proxy Protocol \* Fields are mandatory when enabled**

The DICOM proxy protocol is used to interact with media that are stored in the PACS.

**PACS Server \*:** -- Select a PACS Server -- ▾

**AE Title \*:**

**Host:**

**Port \*:**

**DICOM Cache Directory \*:**

Example: c:\media\dicom

### 6.11. MSC Proxy

The MSC Proxy allows the media server to locate and serve media through the uniquely identified associated with it in the media database. An example for UofAurora would be <http://UofAurora:8080/ehp/services/MscServerApi>.

**MSC Proxy Protocol** \* Fields are mandatory when enabled

The MSC proxy protocol is used to resolve a media using a media identifier stored in the MSC Server.

**MSC Server URL Address \*:**

Example: http://localhost:8080/ehp/services/MscServerApi

### 6.12. Local Proxy

The local proxy uses the filename to serve images.

**Local Proxy Protocol**

The local proxy protocol resolves a media using a filename

### 6.13. Remote Queue

The Remote Queue is a service that allows for asynchronous execution of tasks. There are two tasks currently available (thumbnail regeneration and light image versions).

- Persistence on Disk: Where queries are stored in an XML format
- Idle wait time: Directory's scanned frequency in order to retrieve new task requests
- Auto start: active service or not

**Remote Requests Service**

The Remote Request Service allows remote execution of requests.

**Persistence on Disk \*:**

Example: C:\Aurora\Processor

**Idle wait time:**

**Auto Start?:**  Enabled  Disabled

## 7. Licenses

The license section provides details about the rights granted with the license available. This includes:

- Distributed servers allowed: expresses the number of media servers that may be included in the portal.
- Servers currently registered: the number of media servers currently included in the portal.
- Modules enabled: available modules (green checks)

There is also a link to upload a new license on the top right of the page.

License Details	
<b>Application:</b>	Clinical-Educational [Only for testing]
<b>Version:</b>	3.2.0
<b>Generated on:</b>	Dec 1, 2008 12:26:53 PM
<b>Distributed servers allowed:</b>	20
<b>Servers currently registered:</b>	1
<b>Modules enabled:</b>	<ul style="list-style-type: none"> <li>✓ Single Sign-on</li> <li>✓ Common Authentication - LDAP</li> <li>✓ Collaboration</li> <li>✓ Opinions</li> <li>✓ Studies</li> <li>✓ Knowledge Base</li> <li>✓ Tests</li> <li>✓ Atlas</li> </ul>

## 8. Audits

This feature allows the administrator to query all actions performed in mScope for a given time frame. The results are listed by date and user.

Enter from and to dates (format DD/MM/YYYY) and click on “List audits” to see results displayed.

The results may be exported to a CSV file by clicking on “Export audits to CSV” which can be used by applications like EXCEL to measure user activity.

**Filter audits**

From\*:


To\*:

 [Export audits to CSV](#)

Audit List					
Date	Full name	Type	Object Id	Object name	Details
May 4, 2010 10:40:04 AM	Administrator Admin	ACCESS_TERMS (10003)	2	admin	
May 4, 2010 10:40:00 AM	Administrator Admin	ACCESS_TERMS (10003)	2	admin	
May 4, 2010 10:37:07 AM	Administrator Admin	ACCESS_LOGIN (10001)	2	admin	
May 4, 2010 10:01:06 AM	MSCOPE-API MSCOPE-API	SERVER_DELETE (10303)	1	Default MSC Media Server	
May 4, 2010 10:01:04 AM	MSCOPE-API MSCOPE-API	ACCESS_LOGIN (10001)	3	mscope-api	

## 9. System Event Logs

This page contains a list of all system generated alerts such as users overrun, etc.

System Event Logs					<a href="#">Show archived</a> <input type="checkbox"/>
 Date/Time	Event	Details	Severity	Component	Archive
No event					

## 10. Attributes

mScope provides user-defined Attributes that may be added to Cases and Images.

Attributes may defined for Cases, Media, or both.

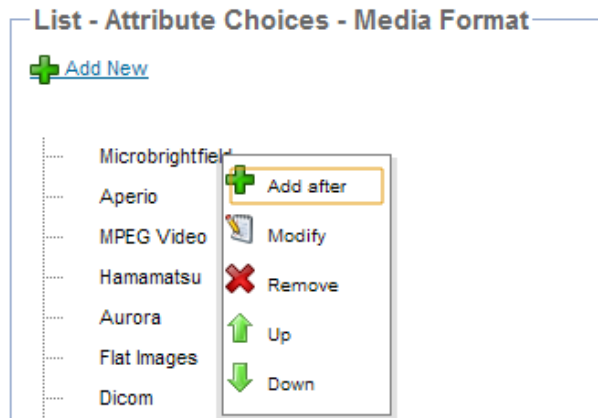
It is also possible to define the attribute as mandatory. In this case, the user will be required to provide a value for the attribute before they can continue.

Attributes may be text, value lists or value trees (tree branches/plus levels)

[+ Add New](#)

Attributes				
Position	Name	Type	Applied To	Actions
1.	Media Format	Value List	Case Media	👍 First Up ⬆️ Down 🗣️ Last 📄 Edit ❌ Delete 📄 Values
2.	Organe	Value Tree	Media	👍 First ⬆️ Up ⬇️ Down 🗣️ Last 📄 Edit ❌ Delete 📄 Values
3.	Lésion	Value List	Media	👍 First ⬆️ Up ⬇️ Down 🗣️ Last 📄 Edit ❌ Delete 📄 Values
4.	media	Value List	Media	👍 First ⬆️ Up ⬇️ Down 🗣️ Last 📄 Edit ❌ Delete 📄 Values

Value Lists are populated by selecting “Add New” or “Add after” and entering the entry’s name. The order of the list is configurable through the “Up” & “Down” options.



Value Trees behave similarly to Value Lists with the addition of depth. This is facilitated by "Indenting" the entry using “Insert under” or “Insert after”.



## 11. Template customization

This section allows the administrator to modify automated email templates for each language mScope supports.

The screenshot shows the mScope administrator interface. On the left is a navigation menu with categories: Security, Configuration, and Clinical. Under 'Configuration', 'Template customization' is highlighted with a green circle. On the right is a 'List of Templates' table:

Name	Languages
TEMPLATE_DIAGNOSIS_REPORT	English French German Portuguese Spanish
TEMPLATE_DAILY_SUMMARY	English French German Portuguese Spanish
TEMPLATE_CASE	English French German Portuguese Spanish
TEMPLATE_CONSULTATION_REPORT	English French German Portuguese Spanish
TEMPLATE_FORGET_PASSWORD	English French German Portuguese Spanish

## 12. Internationalization

This function allows the administrator to personalize the vocabulary displayed through mScope’s graphic interfaces.

Each field displayed in the form represents one of mScope’s dictionary’s “tag”

The screenshot shows the mScope administrator interface. On the left is a navigation menu with categories: Security, Configuration, and Clinical. Under 'Configuration', 'Internationalization' is highlighted with a green circle. On the right is a search form with the following elements:

- A link labeled 'Show dictionary keys' with a magnifying glass icon, circled in green.
- A search input field with the placeholder text 'Find dictionary key:' and a 'Go' button, circled in green.

In order to modify a tag (for example, replace “Library” with “Media Library” in a menu,) identify the tag’s name, enter it in the name field and enter the desired new value in the corresponding field before hitting save.

Click on “Show dictionary keys” to display dictionary keys in order to identify a tag’s name.

Find dictionary key (dictionary.l8nForm.dictionaryKey):  Go (global.label.action.go) [Hide dictionary keys \(dictionary.l8nForm.hideDictionary/Ke](#)

**mScope®** **AURORA INTERACTIVE**  
Welcome (global.label.userwelcome) [Stephanie Gibeau](#) [Administration \(headermenu.administration\)](#) [Log Out \(global.label.logout\)](#) [Help \(global.label.help\)](#)

Studies (application.remotediagnosis) Panel Discussions (application.paneldiscussions) Knowledge Base (application.knowledge)  Search (label.button.search)

Search (application.search)

**Cases** (dictionary.remotediagnosis.filters) **Cases (case.title.list)** [New case \(case.action.create\)](#) [Export case list \(case.action.export\)](#)

Results 1 to 11 of 11 (list.paging.summary)  
Results per page (list.paging.custom.pagesize) 20

Site (user.site)	Priority (case.priority)	Date Created (case.createddate)	Status (application.workflow)	Case ID (case.name)	Act
MSC	Priority 3 (case.priority.priority3)	12/01/2011	Diagnosis complete (case.workflow.states.diagnosiscompleted)	<a href="#">MSC0000083</a> ABC001	<a href="#">Cre</a>
MSC	Priority 3 (case.priority.priority3)	12/01/2011	Diagnosis complete (case.workflow.states.diagnosiscompleted)	<a href="#">MSC0000086</a> ABC002	<a href="#">Cre</a>
MSC	Priority 3 (case.priority.priority3)	17/01/2011	Consultation in progress (case.workflow.states.opinioninprogress)	<a href="#">MSC0000153</a> 010	<a href="#">Spe</a>
MSC	Priority 3 (case.priority.priority3)	17/01/2011	Diagnosis complete (case.workflow.states.diagnosiscompleted)	<a href="#">MSC0000154</a> 011	<a href="#">Cre</a>

- All cases (case.filter.all) (11)
  - Cases by status (case.filter.workflow)
    - Draft (case.workflow.states.qualitycontrol) (1)
    - Consultation in progress (case.workflow.states.opinioninprogress) (1)
    - Diagnosis in progress (case.workflow.states.diagnosisinprogress) (2)
    - Diagnosis complete (case.workflow.states.diagnosiscompleted) (7)
  - Cases by active assignee (case.filter.assignee)
    - Assigned to me (case.filter.assignedtome) (11)

In the toolbar, enter the key and hit “Go” to see the following window which will allow you to update the tag for any of the languages supported by mScope. Enter the desired new tag, for example, “Media Library” next to “EN” and click “Save” to complete the operation.