



# ΚΟΙΝΟΠΡΑΞΙΑ: ΠΑΝΕΠΙΣΤΗΜΙΟ ΚΥΠΡΟΥ, ΥΠΟΥΡΓΕΙΟ ΥΓΕΙΑΣ ΚΑΙ ΕΘΝΙΚΗΣ ΑΡΧΗΣ ΗΛΕΚΤΡΟΝΙΚΗΣ ΥΓΕΙΑΣ



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Κύριος στόχος του έργου αυτού είναι η υλοποίηση κατάλληλων διασυνδέσεων και διαδικτυακών ηλεκτρονικών υπηρεσιών, οι οποίες θα κάνουν εφικτή την ανταλλαγή του Συνοπτικού Ιστορικού Υγείας (Patient Summary) και Ηλεκτρονικών Συνταγών Φαρμάκων (ePrescriptions), με σκοπό την επίτευξη των ακόλουθων επιμέρους στόχων:

- Διασυνοριακή περίθαλψη και ασφαλής πρόσβαση στις πληροφορίες για την υγεία των ασθενών μεταξύ των ευρωπαϊκών συστημάτων υγειονομικής περίθαλψης, ιδίως όσον αφορά την ανταλλαγή του Συνοπτικού Ιστορικού Υγείας ασθενών (Patient Summary) και την Ηλεκτρονική Συνταγογράφηση (ePrescription).
- Συμβολή στην ασφάλεια των ασθενών, μειώνοντας τη συχνότητα των ιατρικών σφαλμάτων και παρέχοντας γρήγορη πρόσβαση στις πληροφορίες για την υγεία τους.
- Προσβασιμότητα στις συνταγές του ασθενούς, όταν αυτός βρίσκεται στο εξωτερικό.
- 4. Παροχή πληροφορίας ζωτικής σημασίας σε επείγουσες καταστάσεις στον επαγγελματία υγείας και
- 5. Μείωση των επαναλήψεων διαγνωστικών διαδικασιών.

#### Abstract:

The NCPeH CY Service Desk supporting the problem and incident management is based on the OpenSupports ticketing system. OpenSupports is an open source ticket system that provides better management of users inquiries. Users can send tickets through OpenSupports and the ICT service desk team can handle them appropriately. The software has tools to manage the tickets, staff members, the departments where staff members belong to, and custom responses, multi-language support. It also let administrator staff to write articles for known errors, root causes and workarounds to allow quicker diagnosis and resolution. The procedures in support of NCPeH Service Desk operations based in the OpenSupports tool are further documented in this annex

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# ΣΥΝΤΟΜΟΓΡΑΦΙΕΣ

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eD	eDispensation (ηλεκτρονική Εκτέλεση συνταγής)
еР	ePrescription (ηλεκτρονική Συνταγή)
<ul> <li>INEA</li> <li>MTC</li> <li>NCPeH</li> <li>PS</li> <li>ΓΝΑ</li> <li>IY</li> <li>ΚΕΠ</li> <li>ΚΜ</li> <li>ΜΠ</li> <li>ΜΠΥ</li> <li>ΟΠΣΥ</li> <li>ΠΦΣ</li> </ul>	Innovations & Networks Executive Agency Master Terminology Catalogue National Contact Point electronic Health Patient Summary (Συνοπτικό Ιστορικό Υγείας) Γενικό Νοσοκομείο Αμμοχώστου Ιατρικές Υπηρεσίες Κέντρο Εξυπηρέτησης Πολιτών Κράτος Μέλος Μονάδα Πληροφορικής Υπουργείου Υγείας Μονάδα Παρακολούθησης Υγείας Ολοκληρωμένο Πληροφοριακό Σύστημα Υγείας Παγκύπριος Ιατρικός Σύλλογος
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#### 1. Introduction

The operational services for cross boarder healthcare, within the participating countries, MS are expected to provide support to different actors involved in the usage of cross-border eHealth services.

In Cyprus, the National Electronic Health Authority and the MOH are in charge of providing a dedicated Service Desk for **problem and incident management** supporting the NCPeH CY. The Service Desk concentrates on restoring unexpectedly degraded or disrupted services to users as quickly as possible, in order to minimize business impact. In addition, the personnel of the Service Desk will perform root cause analysis to determine and resolve the underlying causes of incidents, and proactive activities to detect and prevent future problems/incidents. This also includes the creation of known error records, that document root causes and workarounds to allow quicker diagnosis and resolution. The new Service Desk is based on the OpenSupports ticketing system [1]. OpenSupports is an open source ticket system for giving support to clients of a company or to users of a platform. It provides better management of users inquiries. Users can send tickets through OpenSupports and the staff can handle them appropriately. The software has tools to manage the tickets, staff members, the departments where staff members belong to, custom responses, multi-language support. It also let administrator staff to write articles for known errors, root causes and workarounds to allow quicker diagnosis and resolution.

The Service Desk can differentiate tickets submitted by users as incidents or problems. This differentiation can be performed by a staff member by assigning a different tag ("incident" or "problem") on the ticket when inspecting the submitted tickets.

The Service Desk incorporates a documented incident management procedure keeping records of all reported incidents with at least the following details:

1) types of incidents: The incidents are categorized on the basis of the department, and the staff can filter the incidents per department. Additionally, a set of tags can be created in advance, and can be assigned to the ticket at inspection time by the staff.

2) classification (urgency i.e timeframe and priority, impact level)? Each ticket is submitted with low priority and the staff can re-prioritize the ticket as low, medium or high priority.

3) updating: The status of a submitted ticket can be updated by the staff at any time in terms of changing department, modifying priority, assigning owner and closing or re-opening ticket. Owner is the staff member who is mainly responsible for the resolution of the ticket.

4) escalation: Initially a submitted ticket is not assigned to a specific staff member. At inspection time, a staff member can escalate the incident by assigning the ticket to a specific staff member.

5) resolution: Any staff member can respond to a ticket submitted under the department where the staff member is assigned.

6) closure: If an incident is resolved, then it can be closed (it can be re-opened later if needed).

7) transfer eventually to problem management:

8) historical timeline: The list of tickets is sorted by date. Also, within each ticket, responds are ordered by date as well.

The same procedure is followed for problem management:

1) recording: Problems are recorded to the system as tickets and are assigned a "problem" tag.

- 2) classification (urgency i.e timeframe and priority, impact level): as incidents
- 3) updating: as incidents
- 4) escalation: as incidents
- 5) resolution: as incidents
- 6) closure: as incidents

#### 2. Involved Actors

Based on the eHDSI Country Service Desk Guideline V1.1.1 2018/08/01 document [2] the Service Desks on national level need to provide support for different groups of actors. Our system provides support for all recommended actors:

- **Patient**: Patient, residing in Cyprus, who aims to use cross-border eHealth services. These patients may have questions related to the cross-border services provision and its possibilities.
  - Note: Patient does not have access to the NCPeH CY Service Desk to ask questions.
     Patient's questions are supported by phone calling to 22604100. More information can be found in Annex OP 1 Service Operation Plan in Section 3.
- Health professional: Health professional, acting within Cyprus, as end-user of the system.
- **Third party vendors / Software integrators**: Companies integrating communication with national eHDSI services (e.g. NCPeH) into their primary software.
- Foreign country Service Desk: Contacting or being contacted by Service Desk from another country operating within eHDSI, for resolving issues arising from cross-border exchange.
  - Note: Other countries contact by email to <u>ncphelpdesk@cs.ucy.ac.cy</u> and the related officer is responsible to register the issue to OpenSupports. As the issue will be fixed, the officer will reply by email to the foreign country contact point to reference the progress. More information can be found in Annex OP 1 Service Operation Plan in Section 3.

These actors were incorporated to the system as groups of users. During user sign up process, the user must be assigned to one of these groups.

## 3. Staff and Departments

The staff who is going to be responsible for answering to tickets issued by the involved actors is categorized into 6 departments. The 6 categories obtained from the aforementioned pdf file [2] are:

- Organizational
- Legal
- Operation Services
- Information Security
- Technical
- Semantic

#### 4. Procedures

4.1 Admin Log In and Statistics

#### 4.1.1 Log in into Admin panel

To login in the admin panel, you have to go to the path / admin

For example http://yourwebsite.com/support/admin

enSupports
₽.
LOG IN
e

Figure 1: Admin panel.

1. Go to /admin.

- 2. Input your staff user credentials.
- 3. You will have access to the admin panel.

## 4.1.2 Metrics and trends (Statistics)

When you first enter the dashboard, you will see metrics and trends about system activity.

Welcome, Flouris Tanteles						📑 English
	Cashboard	<b>(</b> Tickets	<b>L</b> Users	<b>S</b> Articles	Staff	Settings
Flouris Tanteles My Account   Close session		Last Activity	0000		o tan	Coungo
Statistics Here you can view statistics related to ticket	s and signups.					

Figure 2: Admin dashboard – statistics section.

The statistics section keeps track of all ticket system metrics and provide visually appealing trends of the metrics.

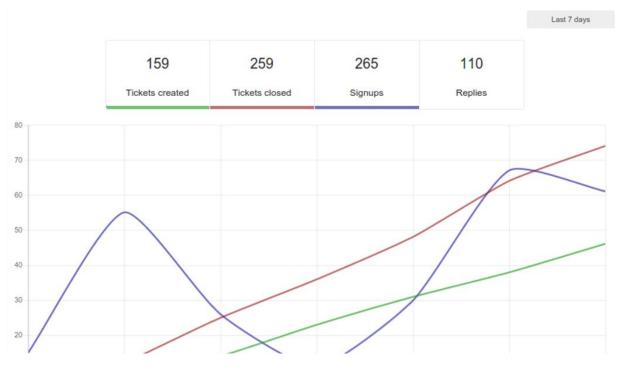


Figure 3: Admin dashboard – statistics section (trends).

In the figure, 4 metrics are illustrated:

- **Tickets Created** indicates the number of tickets that have been created during the last days.
- **Ticket Closed** indicates the number of tickets that have been closed during the last days.
- **Signups** indicates the number of user registrations that have been done during the last days.
- **Replies** indicates the number of tickets that have been answered during the last days.

Below metrics, the trends of the metrics are illustrated.

Also you can see choose to see the information above for the last 7 days or the last 30 days.

Welcome, Flouris Tanteles						🖼 English
	<b>6</b> 26	<b>()</b>				O <sub>S</sub>
	Dashboard	Tickets	Users	Articles	Staff	Settings
Flouris Tanteles My Account   Close session	Statistics	Last Activity				
Last Activity						
	(	My notifications	All notifications			

#### 4.1.3 Last Activity

Figure 4: Admin dashboard – Last activity section.

- My notifications will show you the last activity regarding the tickets you have assigned.
- All notifications will show you all the last activities of the whole system.

#### 4.2 Configure OpenSupports settings

#### 4.2.1 Email Settings

Email server address: Indicates the email address that will be on the from and replyTo parts of the email. Image header URL: Indicates the url of the header image to be shown in the sent emails. By default it's OpenSupports' logo.

# 4.2.2 Configure SMTP

- 1. Configure Email server address
- 2. SMTP Server: Indicate the server with it's port in this format {HOST}:{PORT}, for example tls://smtp.gmail.com:586
- 3. SMTP User/SMTP Password: Indicate the SMTP credentials.
- 4. Make sure to hit TEST button to check the connection is working
- 5. Click Save when you're ready

## 4.2.3 Configure IMAP

For creating tickets from emails, we connect to an IMAP server folder, check the messages, create tickets based on those and the delete the emails.

- 1. Configure Email server address. Do not use a noreply address.
- 2. IMAP Server: Indicate host with with folder to check emails, for example {imap.gmail.com:993/imap/ssl}INBOX
- 3. IMAP User/IMAP Password: Indicate the IMAP credentials.
- 4. Generate a IMAP Token. This serves as password for polling the emails.
- 5. Make sure to hit TEST button to check the connection is working.
- 6. Click Save when you're ready.

Remember to take a look to the infobox below. To parse emails and create tickets, you have to make a POST request to the indicated url and provide the IMAP Token. It's recommended to make it frequently, for example you can use a hook that calls it every time an email is received.

Here is a <u>configuration video tutorial</u> if you need more explanation.

#### 4.3 Handle topics and articles

You can Create articles to solve your user's frequently asked questions (FAQs), known errors, root causes and workarounds to allow quicker diagnosis and resolution and to provide them with How-To Guides about the offered service as shown below:

Article I		
This is a list o	f articles that includes information about our service:	5.
Q	FAQ - Frequently Asked Questions	
	How to save a file?	How to restart the computer?
	How to be a superhero?	How to view statistics?
	<ul> <li>Add new article</li> </ul>	
<b></b>	About us	
	• Who we are?	- Why do we do this?
	<ul> <li>More Projects</li> </ul>	<ul> <li>Add new article</li> </ul>

Figure 5: Admin dashboard – Article list.

#### 4.3.1 Create a topic

Welcome, Flouris Tanteles					📟 English
Flouris Tanteles	Dashboard Tickets	Users	<b>D</b> Articles	Staff	<b>OR</b> Settings
Article List This is a list of articles that includes information	Title       I       Icon       Color	at works as a category for art			
Powered by OpenSupports v4.4.0					cumentation   Donate

#### Figure 6: Admin dashboard – Add topic.

In order to create a topic follow the steps below:

- 1. Go to "Articles"
- 2. Go to "Article list"
- 3. Click on "ADD TOPIC" button
- 4. Input some Title
- 5. Choose an Icon
- 6. Choose a Color
- 7. Click on "SAVE" button

#### 4.3.2 Create a new article

Under any topic, you can add articles as shown below.

Welcome, Flouris Tanteles						📑 English
Flouris Tanteles	Dashboard       Article List	Tickets	<b>L</b> Users	<i>E</i> ) Articles	Staff	<b>C</b> Settings
Article List This is a list of articles that includes informa FAQ - Frequently Aske - Add new article						
		🔁 ADD T	OPIC			
Powered by OpenSupports v4.4.0					Doc	cumentation   Donate

Figure 7: Admin dashboard – Add article under a topic.

Welcome, Flouris Ta		🔤 English
FIC My Ac	Add article Here you can add an article that will be available for every user. It will be added inside the category FAQ.	ettings
Article This is a list	Title Content Normal ≑ ☱ B I U ↔ 등 ⊠	
Powered by	ADD ARTICLE Can	cel Ion   Donate

Figure 8: Admin dashboard – Add article editor.

Follow the steps below to create an article:

- 1. Go to "Articles"
- 2. Go to "Article list"
- 3. Under a topic of your interest, click on "Add new article" button
- 4. Input some title
- 5. Input some Content
- 6. Click on "ADD ARTICLE" button

#### 4.4 Handle staffs and departments

You can add as many staff members as you want and assign each of them the set of departments they will respond. Every ticket belongs to one department. You can assign each staff member a set of departments he will be in charge.

Welcome, Flouris Tanteles							🔜 English
Flouris Tanteles	n	Cashboard Staff Members	Tickets	<b>L</b> Users	<b>E</b> ) Articles	Staff	<b>C</b> Settings
Staff Members Here you can see who are you All Departments	r staff members.					2	∔ Add new staff
	F	louris Tanteles	0 assigned tickets	0 closed tick	ets 01 J	Last login ul 2019 at 16:22	
	ioan	nis Constantinou	0 assigned tickets	0 closed tick	ets 01 J	Last login ul 2019 at 16:21	

#### Figure 9: Admin dashboard – Staff and Department section.

#### 4.4.1 Add a new staff member

- 1. Go to "Staff"
- 2. Go to "Staff Members"
- 3. Click on "Add new staff" button
- 4. Input some Name
- 5. Input some Email
- 6. Input some Password

- 7. Choose one Level
- 8. Choose one or more Departments
- 9. Click on "SAVE" button

# 4.4.2 Edit a staff member

- 1. Go to "Staff"
- 2. Go to "Staff Members"
- 3. Click on a staff's name
- 4. Input some New password and repeat it
- 5. Click on "Update password" button
- 6. Select a new Level
- 7. Click on "Update Level" button
- 8. Select some different department
- 9. Click on "Update departments" button
- 10. Click on "DELETE STAFF MEMBER" button
- 11. Click on "YES" button on "Confirm Action" box

# 4.4.3 Create a new department

- 1. Go to "Staff"
- 2. Go to "Departments"
- 3. Input some Name
- 4. Click or not on "Private" checkbox
- 5. Click on "Add department" button

#### 4.4.4 Filter by Department

- 1. Go to "Staff"
- 2. Go to "Departments"
- 3. Click on department list.
- 4. Choose the department you want to filter from.

#### 4.4.5 Delete a department

- 1. Go to "Staff"
- 2. Go to "Departments"
- 3. Click on department's name you want to delete
- 4. Click on "Delete" button

#### 4.5 Handle tickets

Simple users can view previous submitted tickets or create new tickets using the dedicated menu item as shown below.

elcome, Anakin Skywalker			English
Dashboard	Ticket List Here you can find a list of all tickets you have sent to our suppr	nt team	
Create Ticket	There you can find a fist of an dickets you have sent to our suppr	off team.	
View Articles	Number Title	Department	Date
Edit Profile	#933123 Test order	Jedi Council	31 May 2019
Close session	#255065 hel	Judicial Department	31 Mar 2019
	#183980 test	Jedi Council	30 May 2019
			30 May 2019

Figure 10: User dashboard – Tickets section.

Staff member users can submit, view and manage tickets from the dedicated section of the system as shown below. Staff member can modify ticket status in terms of changing department, assigning owner, close or re-open ticket and provide response to the issuer.

The section "My Tickets" includes all tickets submitted by the logged in staff member user.

The section "New Tickets" includes new tickets that were not assigned to anyone.

The section "All Tickets" includes tickets of the departments that the logged in staff member user is assigned.

Velcome, Flouris Tanteles			_			🖷 English
	<b>@</b>	Ŵ	4			00
Flouris Tanteles	Dashboard	Tickets	Users	Articles	Staff	Settings
My Account   Close session	My Tickets	New Tickets	All Tickets	Custom Responses	Custom Tags	
My Tickets						
Here you can view the tickets you are respo	nsible for.					
All Departments	Show Closed Tickets					
All Departments Number Title	Show Closed Tickets	Priority	De	partment A	uthor	Date
	Show Closed Tickets		Dej	partment A	uthor	Date + Create Ticket
	Show Closed Tickets		Dej	partment A	uthor	
	Show Closed Tickets		De	partment A	uthor	

Figure 11: Admin dashboard – Tickets section.

#### 4.5.1 Create a new ticket

- 1. Go to "Tickets"
- 2. Go to "My tickets"
- 3. Click on "Create Ticket" button
- 4. Input some Title
- 5. Select one Department
- 6. Select one Language
- 7. Input some Content
- 8. Click on "CREATE TICKET" button

# 4.5.2 Filter Tickets by Department

- 1. Go to "Tickets"
- 2. Go to "New Tickets"/"My Tickets"
- 3. Click on department list.
- 4. Choose the department you want to filter from.

# 4.5.3 Filter Tickets by Keyword

- 1. Go to "Tickets"
- 2. Go to "All Tickets"
- 3. Click on search box.
- 4. Type the text you want to filter from.

#### 4.5.4 Show Closed Tickets

- 1. Go to "Tickets"
- 2. Go to "All tickets"/"My Tickets"
- 3. Click on "Show Closed Tickets" checkbox

#### 4.6 Handle custom responses and tags on Tickets

Don't repeat yourself. With OpenSupports system you can customize your own templates to respond tickets. A custom response is a template used when you need to respond a frequently asked issues.

Welcome, Flouris Tanteles						📑 English
	<b>a</b>	Ŵ	4			O <sup>o</sup>
Flouris Tanteles	Dashboard	Tickets	Users	Articles	Staff	Settings
My Account   Close session	My Tickets	New Tickets	All Tickets Cust	com Responses	Custom Tags	
Custom Responses	for common problems					
Custom Responses						
🕀 Add new						

#### Figure 12: Admin dashboard – Tickets section – Custom Responses.

#### 4.6.1 Create a new custom response

- 1. Go to "Tickets"
- 2. Go to "Custom Responses"
- 3. Input some Title.
- 4. Input some Content
- 5. Select the language
- 6. Click on "Save" button

#### 4.6.2 Use a Custom response

- 7. Go to "Tickets"
- 1. Go to "My tickets"
- 2. Select a ticket.
- 3. Go to "Respond" box
- 4. Click on "Select custom response" search box.
- 5. Choose the custom response you are looking for.
- 6. Click on "RESPOND TICKET" button

#### 4.6.3 Create a new Custom Tag

- 1. Go to "Tickets"
- 2. Go to "Custom Tags"
- 3. Click on "CREATE CUSTOM TAG"
- 4. Input some Name
- 5. Select one Color
- 6. Click on "SAVE" button

# 4.6.4 Delete a Custom Tag

- 1. Go to "Tickets"
- 2. Go to "Custom Tags"
- 3. Click on the cross of the tag you want to delete "CREATE CUSTOM TAG"
- 4. Click on "YES" button of the "Confirm action" box

#### 4.7 Handle Users

Users can be added to the system in two ways. Firstly, a user can sign up on his/her own using the dedicated sign up form in the homepage of the OpenSupports System. The link to the sign up form in on the top left side of the main menu as shown below:

Log in Sign up			📑 English
LOG IN	NCP Support Center Welcome to our support center. You can contact us	through a tickets system. Your tickets will be answer	red by our staff.
password Remember me	TICKETS	Account	Articles
LOG IN Forgot your password?	Send ticket through our support center and get response of your doubts, suggestions and issues.	All your tickets are stored in your account's profile. Keep track of all your tickets you send to our staff team.	Take a look to our articles about common issues, guides and documentation.
			Powered by OpenSupports

Figure 13: User login webpage.

The sign up form is illustrated below:

Sign up Here you can create an acc documentation.	ount for our support center. It is required to send	tickets and see
	Full name	
	Email	
	Password	
	Repeat password	
	Group 🕜	
	Health professional	
	SIGN UP	

Figure 14: Sign up form.

Secondly, the administrator can add users to the system from the administration dashboards. The administration can add, delete users can search them by a keyword and can also ban or unban a user from accessing the system.

Welcome, Flouris Tanteles						🖷 English
Flouris Tanteles	Cashboard	Tickets	Users tom fields	<b>E</b> Articles	Staff	<b>C</b> Settings
List Users This is the list of users that are registered in the comparison of the co	his platform. You can se	arch for someone in parti	cular, delete it or ban it.			
Name	Email			Tickets 🛧 🔶	Sign up∍	date ↑↓ + Add user
Powered by OpenSupports v4.4.0	_			_	Doc	umentation   Donate

Figure 15: Admin dashboard – Users section.

#### 4.7.1 Add a new user

- 1. Go to "Users"
- 2. Go to "List Users"
- 3. Click on "Add user" button
- 4. Input some name
- 5. Input some email
- 6. Input some password and repeat it
- 7. Click on "SIGN UP" button

# 4.7.2 How to find some user by keyword

- 1. Go to "Users"
- 2. Go to "List Users"
- 3. Click on search box.
- 4. Type the text you want to filter from.

#### 4.7.3 How to ban and unban an user

#### Ban an user

- 1. Go to "Users"
- 2. Go to "List Users"

- 3. Select the user's name you want to ban.
- 4. Click on "Delete and ban" button
- 5. Click on "YES" button in the "Confirm Action" box

#### Unban an user

- 1. Go to "Users"
- 2. Go to "Ban Users"
- 3. Click on "Disable ban" button of the user 'email you want to unban.

#### 4.7.4 How to handle Custom fields

Custom field is used when you need to identify users with some specify field as for example by the group he belongs to, or by the location etc.

#### Create a custom field

- 1. Go to "Users"
- 2. Go to "Custom fields"
- 3. Click on "NEW CUSTOM FIELD" button
- 4. Input some Name
- 5. Input o not some Field description
- 6. Choose one Type
- 7. Click on "SUBMIT" button

#### Delete a custom field

- 1. Go to "Users"
- 2. Go to "Custom fields"
- 3. Click on "REMOVE" button of the custom field you want to delete
- 4. Click on "YES" button of the "confirm action" box

#### Incident service management:

Phone (the number is +357 22604100) 24 by 7

email: ncphelpdesk@cs.ucy.ac.cy

#### Incident service management

A range of resources are available in order to manage the NCPeH related incidents (including specific / applicable information security incidents).

NCPeH has implemented the following:

- A set of people dedicated to incidents response with enough technical and communications skills to face any incident.
- Physical room or building where security incidents can be treated and tracked in a safe way.
- The response team NCPeH Service Desk have the appropriate hardware and software toolsets to handle a wide spectrum of incidents.
- Communication lines: the following communication lines are available as a minimum to report incidents, in this preferred order:
  - Phone (the number is 22604100) 24 by 7
  - eMail: ncphelpdesk@cs.ucy.ac.cy

All this operational components and channels are available on a 24x7 basis.

# REFERENCES

[1] OpenSupports Ticket System, <a href="https://www.opensupports.com/">https://www.opensupports.com/</a>

[2] <u>Country Service Desk Guideline, eHealth DSI – ePrescription and Patient Summary</u>