D8.1 - First POPEYE Demonstration

Abstract

This document is deliverable D8.1 - First POPEYE Demonstration report dealing with the description of the first of the two demonstrations planned for the POPEYE proof-of-concept application.

Keywords List

POPEYE, Proof-of-concept, Demonstration Event, Requirements Validation, User Group
Executive Summary

This document is POPEYE D8.1 deliverable, the First POPEYE Demonstration report. It is also the first deliverable issued in workpackage WP8.

This First Demonstration goal was to enable verifying the architecture and applications in a controlled environment, identifying problems and providing useful feedbacks for adjustment and consolidation of both the POPEYE architecture and the tested proof-of-concept applications.

This Demonstration was also designed as part of the POPEYE requirements validation process, referring to the list of requirements established in the first phase of the project and documented in Deliverable D2.2 - Description of Functional, non-Functional and Technical Requirements.

The present document illustrate the details involved in the setting up the First Demonstration Event, which took place in Paris on 26th October, 2007 (During month M18 of the project lifetime, as foreseen) at GET-ENST venue (École Nationale Supérieure des Télécommunications). Moreover, the deliverable illustrates in detail the selected Demonstration Cases extracted from the project Baseline Scenario. This scenario, the Symposium on sustainable development scenario, is the one defined in the project's Contract Annex I - Description of Work and chosen as baseline for the POPEYE proof-of-concept in deliverable D6.1.

The selected Demonstration Cases are:

- Demonstration Case 1, concerning POPEYE users setting up the collaboration
- Demonstration Case 2, illustrating the case of new users joining POPEYE collaboration
- Demonstration Case 3, showing how the system responds to the security threat caused by an attempt of malicious access
- Demonstration Case 4, illustrating another security threat (‘spoofing’)

This document was developed taking the following documents and material as main references:

- Deliverable D2.1, "Description of Collaboration Scenarios". The document covers the description of usage of innovative mobile P2P applications and the definition of typical or expected services. Besides, it identifies a set of scenarios highlighting the single situations where the POPEYE system could improve the collaborative working.

- Deliverable D2.2, "Description of Functional, non-Functional and Technical Requirements", containing the description and categorisation of the identified functional, non functional and technical requirements for the POPEYE system.

- Deliverable D6.1, which contains a workplan for the phases of the project that will lead the development of the two Demonstration Events (First and Final) that will enable verifying
POPEYE's architecture and Proof-of-Concept applications. The document identifies the selected POPEYE Baseline Scenario for the Demonstration.

- Deliverable D6.2, containing the POPEYE e-collaboration application specification and design, concentrating on the selection of functionality for the Proof-of-Concept application with special emphasis to relevance of the selected Baseline Scenario, and on the specification of the Application and User Interface layers of the POPEYE architecture.

The table of contents for this deliverable was first proposed during the POPEYE Technical Meeting that took place in Tarragona on September 12th to 14th 2007. The structure of the document is the following:

1. Introduction
2. First Demonstration Event section, giving details about the event organization and participants.
3. Selected Demonstration Cases, illustrating in details the above mentioned selected Demonstration Cases.
4. First Demonstration Event feedback collection process, illustrating how feedback from the meeting participant is collected and the questionnaire forms that are given to the participants at the beginning of the event
5. Conclusions

The document is also completed by an Annex containing the Demonstration Event proceedings. This annex includes details about the event organization and participants, and the minutes of the event with the description of the Demonstration actions performed and their results. It moreover collects the feedback received by the participants with their ideas, impressions and evaluations relative to POPEYE requirements validation according to the evaluation forms they received at the beginning of the event.
## Revision history

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<th>Date</th>
<th>Description, Editors</th>
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<tr>
<td>1</td>
<td>9.11.2007</td>
<td>Initial version, Christian Melchiorre</td>
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Further to the above list of the main contributors, this document was written with the participation from all POPEYE’s partners.
## Acronyms

<table>
<thead>
<tr>
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<th>Meaning</th>
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<tbody>
<tr>
<td>CWE</td>
<td>Collaborative Working Environment</td>
</tr>
<tr>
<td>DoW</td>
<td>Description of work</td>
</tr>
<tr>
<td>LAN</td>
<td>Local Area Network</td>
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<tr>
<td>MANET</td>
<td>Mobile ad-hoc network</td>
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<tr>
<td>p2p</td>
<td>Peer-to-peer</td>
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<tr>
<td>PDA</td>
<td>Personal digital assistant</td>
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<td>PoC</td>
<td>Proof-Of-Concept</td>
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<td>WP</td>
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The present document has been produced in consistence with the definition of terms described in the POPEYE Glossary v1.0 accessible on the POPEYE web site [http://www.ist-popeye.eu/](http://www.ist-popeye.eu/)
# Table of Contents

Executive Summary.......................................................................................................................................................... 2  
Revision history............................................................................................................................................................. 4  
Contributors...................................................................................................................................................................... 5  
Acronyms........................................................................................................................................................................... 6  
Table of Contents.............................................................................................................................................................. 7  

## 1 Introduction......................................................................................................................................................... 8  

## 2 First Demonstration Event .................................................................................................................................... 9  

### 2.1 First Demonstration Event, date and location.......................................................................................... 9  

### 2.2 Demonstration Event Participants .......................................................................................................... 9  

### 2.3 Demonstration Event Organization ....................................................................................................... 10  

#### 2.3.1 General organisation of the event .................................................................................................. 10  

#### 2.3.2 Printed material supplied to the meeting participants .................................................................. 10  

## 3 Selected Demonstration Cases.............................................................................................................................. 13  

### 3.1 Baseline Scenario ........................................................................................................................................ 13  

### 3.2 Demonstration Cases Selection ............................................................................................................. 15  

### 3.3 Demonstration Case 1: POPEYE users setting up the collaboration .................................................... 16  

### 3.4 Demonstration Case 2: New User joining POPEYE collaboration ......................................................... 21  

### 3.5 Demonstration Case 3: Security threat, attempting malicious access ..................................................... 24  

### 3.6 Demonstration Case 4: Security threat, attempting 'spoofing' ................................................................. 25  

## 4 First Demonstration Event feedback collection process ...................................................................................... 26  

### 4.1 Feedback collection process ....................................................................................................................... 26  

### 4.2 Feedback forms for the meeting participants .......................................................................................... 28  

#### 4.2.1 General Data about the participants .............................................................................................. 28  

#### 4.2.2 Demonstration Case specific feedback .............................................................................................. 29  

## 5 Conclusions.......................................................................................................................................................... 30  

Annex A: First Demonstration Event Proceedings.................................................................................................... 31
1 Introduction

Deliverable D8.1 - POPEYE First Demonstration is the document that describes the first of the two events foreseen by the project contract, organized with the goal of validating the POPEYE enabled e-collaboration application (proof-of-concept) developed in the context of workpackage WP6. The two events are held respectively in month M18 (Oct 2007) and month M24 (Apr 2008) of the project's lifecycle.

The initial Demonstration, object of this deliverable, was set up involving not only a user group selected internally to the partners, as was foreseen by the project contract, but also involving the whole POPEYE User Group. This initial test enables verifying the architecture and applications in a controlled environment, identifying problems and providing useful feedbacks for adjustment and consolidation of both the POPEYE architecture and the tested applications.

The Demonstration follows the guidelines set up with deliverable D6.1 - POPEYE Demonstration Plan. A Baseline Scenario was chosen as a base for the identification of a set of Demonstration Cases described in this deliverable.

The Second Demonstration event at the end of the project lifetime will provide an open, public show case of POPEYE technologies. It will be set up in the context of a project open Workshop organised in conjunction with some major ICT RTD event (e.g. the Annual IST Event). This will allow demonstrating and disseminating project results to the wider IST, scientific and technical communities. The Second Demonstration event will be documented by the next deliverable of workpackage WP8, D8.2 - Final POPEYE Demonstration.

The proceedings of the events are to be found in annex A to this document and include the collected participants' feedback and its analysis.
2 First Demonstration Event

As described in the project Contract Annex I - Description of Work (DoW) Document, here are the goals of the POPEYE First Demonstration Event.

**First Demonstration:** An initial demonstration will be set up involving a user group selected internally to the partners. Particularly this will involve users from the project partners. This initial test will enable verifying the architecture and applications in a controlled environment, identifying problems and providing useful feedbacks for adjustment and consolidation of both the POPEYE architecture and the tested applications.

In the following subsections practical information about the actual Demonstration Event are given, including dates and location, selected participants and organization issues.

### 2.1 First Demonstration Event, date and location

The POPEYE First Demonstration event took place in Paris on 26th October, 2007. The selected location of the event is at GET-ENST venue (École Nationale Supérieure des Télécommunications), at the following address:

École Nationale Supérieure des Télécommunications  
46, rue Barrault (Room C47)  
75634 Paris, Cedex 13

On the event dedicated page on the project's public web site (www.ist-popeye.org) more information on how to reach the event venue was available.

### 2.2 Demonstration Event Participants

By contract it was foreseen that only a user group selected internally to the project consortium partners take part to the event. Nevertheless, given the advanced stage of development of the POPEYE proof-of-concept application, the partners have decided to extend the participation to the whole POPEYE user group.

This allows to take advantage of the user group members' experience and to collect useful feedback that will be exploited to improve the prototype for the subsequent phases of the project.

The actual list of participants to the Demonstration is inserted in the event proceedings (See Annex A).
2.3 Demonstration Event Organization

2.3.1 General organisation of the event

The local arrangements contact was Mrs Isabelle Demeure, as representative of the hosting organization (GET-ENST), together with POPEYE coordinator, Mr. Nicolas Berthet. The event took place in one day, starting at 10:00 and concluding at 15:00 in the afternoon.

After registration and welcome to the meeting participants, the POPEYE project was shortly presented (though many participants had already taken part to other project events such as the User Requirements workshop in September 2006) and the Demonstration session introduced. Then, before the lunch break, the actual Demonstration session took place, accordingly the Demonstration Cases described in section 3 of this deliverable.

Feedback from participants was stimulated throughout the whole event and collected after the lunch break, following the guidelines described in section 4 of this document.

2.3.2 Printed material supplied to the meeting participants

At the beginning of the Demonstration session all the meeting participants received a folder containing some printed material about the event itself. This includes:

- A leaflet presenting the project.
- A presentation flyer with all the relevant information about the event. This flyer is reproduced in the two pictures at the end of this section.
- A resume of the Baseline Scenario storyboard and the four selected Demonstration Cases. This is expanded in the contents of the present deliverable: the full description of the Demonstration Cases are in section 3.
- The POPEYE Requirements document (deliverable D2.2 – “Description of functional, non functional and technical requirements”).
- A set of forms that is needed to collect participants’ data and their feedback. These are described in section 4 of the present deliverable.
- A number of white sheets of paper to take notes.
Tab 1 - POPEYE First Demonstration Presentation Flyer - Front

Peer to Peer Collaborative Working
Environments over Mobile Ad-Hoc Networks

POPEYE Interim Demonstration Event

Date: 20th October 2007
Location: Ecole Nationale Supérieure
des Télécommunications,
46, rue Barrault, (Room C47)
75013 Paris
France

POPEYE Project

POPEYE is a European research project investigating innovative solutions for Peer-to-Peer
collaboration over mobile ad-hoc networks (MANETs). POPEYE is developing a collaborative
framework to support:

- Opportunistic ad hoc networking: meet and join
  enable creative usage of networked portable devices without the need of supporting infrastructure.
- Spontaneous networks: set-up quickly working groups
  dependable and secure with or without relying on an infrastructure suitable for professional usage

The POPEYE Interim Demonstration Event

POPEYE is holding several public events to disseminate the project approach and maximise the
impacts of POPEYE research, particularly within research and business communities addressing the
themes of e-Collaboration and Collaborative Working Environments.

The POPEYE Interim Demonstration Event is the second of these events. It aims at presenting a live
demonstration of POPEYE developments and a first prototype (proof-of-concept) application developed
on top of POPEYE architecture. The event is targeted at the POPEYE User Group and is part of the
validation process of the POPEYE framework against the user requirements.

www.ist-popeye.eu

POPEYE is a Specific Targeted Research Project (STREP) part-funded by the EU under the 6th Framework Program, IST priority;
Contract No. IST-2006-034241

POPEYE Deliverable D8.1
Dissemination Level: Public
The Interim Demonstration is organised around a set of Use Cases addressing the key scenario adopted for POPEYE validation: P2P collaboration and information exchange among users at public, open events such as a Conference or a Symposium.

The selected Use Cases will demonstrate some key functionalities and characteristics of the POPEYE framework. Discussion between the User Group and POPEYE consortium members, as well as collection of feedbacks from the User Group will follow the demonstration.

Demonstration Case 1: POPEYE users setting up the collaboration
- Setting up the system
- Creation of workspace and sharing of information

Demonstration Case 2: new user joining POPEYE collaboration
- Access to the Captive Portal, creation of a POPEYE Account
- Access to workspaces and participation to the discussions

Demonstration Case 3: security threat, attempting malicious access
- Trying to enter the POPEYE framework
- Trying to enter unauthorised groups

Demonstration Case 4: security threat, attempting ‘spoofing’
- Snifing POPEYE communications
- Trying to extract identity information

Participating to the Event

Like with previous POPEYE events, participants should note the collaborative spirit of the Interim Demonstration.

In order to maximise the achievements from the event, the participants should be aware of the end user requirements addressed by POPEYE. These are described in Project's Deliverable D2.2 (Description of Functional, non-Functional and Technical Requirements), which can be downloaded from the project website: http://www.ist-popeye.eu, section ‘Documents’ / ‘Deliverables’.

Agenda

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
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<tr>
<td>10:00 - 10:30</td>
<td>Registration and Welcome</td>
</tr>
<tr>
<td>10:30 - 11:00</td>
<td>Popeye presentation and demo introduction</td>
</tr>
<tr>
<td>11:00 - 13:00</td>
<td>Demo session (presentation, demonstration and Q/A)</td>
</tr>
<tr>
<td>13:00 - 14:00</td>
<td>Buffet Lunch</td>
</tr>
<tr>
<td>14:00 - 15:00</td>
<td>Feedback collection and conclusions</td>
</tr>
<tr>
<td>15:00</td>
<td>Session closure</td>
</tr>
</tbody>
</table>

Local information and practical arrangements

Local arrangements contact:
Isabelle Demeure, GET-ENST, tel.: +33 1 45817286; email: isabelle.demeure@enst.fr

POPEYE Coordinator:
Nicolas Berthet, THC, tel.: +33 1 48132545; email: nicolas.berthet@fr.thalesgroup.com

For more details on how to reach the demonstration venue and for updates and more details on the event, please consult the ‘Events’ section of the POPEYE website.

www.ist-popeye.eu

POPEYE is a Specific Targeted Research Project (STREP) partly funded by the EU under the 6th Framework Program, IST priority; Contract No: IST-2006-034241
3 Selected Demonstration Cases

This section enters in details concerning the actual contents of the Demonstration event. Subsection 3.1 includes for reference the POPEYE Baseline Scenario previously described in the [POPEYE DoW] document and in the deliverable [POPEYE D6.1], then the selected Demonstration Cases are described in subsequent subsections.

3.1 Baseline Scenario

The Baseline Scenario addressed by the POPEYE research activity was identified first in the project Contract Annex I - Description of Work ([POPEYE DoW]) document and then included in the wider set of scenarios that were identified in deliverable D2.1 [POPEYE D2.1] - Description of Collaboration Scenarios. This was then selected as the baseline for the proof-of-concept application development and main scenario for the Demonstration event in the POPEYE Demonstration Plan ([POPEYE D6.1]). This Baseline Scenario is repeated for reference in Tab 3 at the end of this section.

In this scenario the activities involved in the organisation of an annual symposium on sustainable development, in a location where no network infrastructure is available, are supported by a simple and reliable computing environments for collaborative work, namely the future POPEYE system. This baseline user story captures the important elements that best characterise the intended usage of POPEYE, and for this reason it has been chosen as the reference scenario for the activities that took place during the Demonstration Events.

Though this user story covers a main role as a reference, this does not mean that this is the only source of information that helped define the POPEYE system's requirements and the proof-of-concept application features. A complete work of analysis was performed in the first phases of the project leading to the collection of a set of User Stories covering the widest possible range of uses that can be made of a collaborative working environment like POPEYE. These User Stories were collected in deliverable D2.1 - Description of Collaboration Scenarios [POPEYE D2.1] and used as input for the system functional and non functional requirements collected in deliverable D2.2 - Description of functional, non functional and technical requirements [POPEYE D2.2].

To make the picture even more complete, an End-User Requirements Workshop event involving the POPEYE User Group including several CWE experts was set up and held in Oldenburg during month M5, leading to a collection of further inputs concerning user expectations. The results are described in the event Proceedings in annex of Deliverable [POPEYE D2.2].
Today is Monday 7th December 2009 and Sandra is early on her way to Château Villette, near Versailles. Sandra is the Organiser of the annual world symposium on sustainable development that is due to start today.

All previous such meetings took place in one or another major conference centres throughout the world, this time Sandra obtained a great bargain in renting a huge Castle in the countryside near Versailles in France.

The main justification for this bargain being the almost complete absence of communication infrastructure, with the exception of a few fixed telephone lines and the relatively good signal strength of the main mobile operators, thanks for the castle being on a small hill. This symposium, like most such meetings these days, heavily relies on modern computing environment and multimedia data but Sandra needed no more than what Château Villette had to offer.

Indeed, since a little research project called POPEYE showed the way a few years ago, it has become extremely easy to share data in near real time within spontaneous virtual communities without any prerequisite for a complex infrastructure like Internet or even a simple LAN.

As it is, the symposium participants all have access to the each other’s data that they decided to share (such as a multimedia presentation, or a text document) on their own PDA or laptop. They can interact with the document accordingly to their individual privileges (author, contributor, reader/spectator,…). With the integral security features they may also decide to authenticate themselves and then get access to additional services such as participating to the election of the administration board and voting in near real time.

Later this day, when the participants arrive, they are impressed by the simplicity and reliability of the new collaborative environment offered to them and they are amused to review some of the most impressive documents that they have access to by simply switching on their PDA.

Sandra is confident when she gives her kick-off talk to the Symposium, instantly displaying a few animations to each participant. There are some questions raised about the agenda and everybody can browse through all the comments and suggestions put forward by all participants.

Sandra answer some questions directly and her assistant types these answers in the resulting collaborative document. Some amendments to the agenda are necessary and every participant also gets the update in real time.

Soon though, a potential problem arises, there are not enough power sockets available and some participants now run short of battery. In addition, most of the devices (mainly PDA) have not enough storage capacity to save all the available documents locally. A few years ago, this would have considerably disturbed the work, but today, thanks to the new collaborative environment, no single device needs to store all the relevant data. Each device can get on and off and instantly retrieves the synchronised data for which the persistence was collectively guaranteed. When joining the parallel working groups, the participants join the corresponding community and instantly are able to collaborate and share data, the results of the working groups are later passed to the general symposium community for everybody to use at will.

When the polling session start on the third day, stronger security is required and each voter has to authenticate himself to join the restricted area of the dedicated working environment. On top of that, with a single connection of her own laptop to the Internet, Sandra (or any participant for that purpose) offers the few major stakeholders that could not make the trip the possibility to join the sessions and even to vote in near real time during the polling sessions.
3.2 Demonstration Cases Selection

As mentioned, the following four Demonstration Cases were extracted from the Baseline Scenario described in the previous subsection. The Demonstration Cases include a detailed step by step description of a concrete story to test against the developed proof-of-concept prototype, with the definition of the user involved, the activities performed and so on. The four cases were selected taking into account the principal features of the Baseline Scenario as well as the current status of development of the proof-of-concept prototype.

These are briefly listed here and further developed in the next subsections:

- **Demonstration Case 1: POPEYE users setting up the collaboration**
  
  This Demonstration Case describes the operations performed by the symposium organizer and by a person in charge of one of the symposium presentation session in order to set up the system and the POPEYE network, creating the necessary workspaces, both for general information sharing purposes and for specific management of one of the sessions. Demonstration Case 1 is described in section 3.3.

- **Demonstration Case 2: New User joining POPEYE collaboration**
  
  This second Demonstration Case describes the operations performed by one of the symposium participants, inexperienced in the use of the POPEYE system, who creates an account to POPEYE by first accessing the Captive Portal and then launching the POPEYE client application to get access to workspaces and to participate to the related discussions. Section 3.4 deals with this Demonstration Case.

- **Demonstration Case 3: Security threat, attempting malicious access**
  
  This Demonstration Case is the first one dealing with security threats (or, as defined in D2.1 document, the "bad guy" scenarios), that describes the attempt by a malicious user to gain unauthorized access to the POPEYE network. Demonstration Case 3 is described in 3.5.

- **Demonstration Case 4: Security threat, attempting 'spoofing'**
  
  The last Demonstration Case deals again with security threats, tackling the prevention of spoofing and sniffing by malicious users. This Demonstration Case is dealt with in Section 3.6.
3.3 Demonstration Case 1: POPEYE users setting up the collaboration

This Demonstration Case describes the activities performed by an experienced user using the POPEYE system. In particular, it deals with the activities performed by one of the symposium organizer in order to set up a symposium area where to share to the participants relevant information and documentation about the event, such as maps, agenda, connection information and other items. Moreover, it deals with subsequent activities to set up and carry out one of the symposium activities, namely a presentation held in the context of one of parallel working groups with a subsequent discussion between the working group participants.

<table>
<thead>
<tr>
<th>Actors</th>
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<tbody>
<tr>
<td>Sandra</td>
</tr>
<tr>
<td>Marcel</td>
</tr>
<tr>
<td>John</td>
</tr>
<tr>
<td>other participants</td>
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</tbody>
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Following, the relevant actions that make up the Demonstration Case:

Action 1/a: (Sandra) Login

With this the selected user (Sandra) logs into the system, simply giving her username. The user must have previously registered to the system (see next Demonstration Case for description of how this is done).

1/a step 1: Sandra launches the POPEYE console, for instance by clicking on a desktop icon specifically created at POPEYE client installation time. The POPEYE console appears (see complete description of the POPEYE console and its functionality in deliverable D6.2)

1/a step 2: Sandra inserts her username in the specific POPEYE console fields (see picture below). The POPEYE console menu appears.
**Action 1/b: (Sandra) Create a new workspace for general information about the Symposium**

*First thing before the symposium begins, Sandra, the symposium organizer, creates a specific space where general documentation and practical information about the event are shared to all participants. In order to make this possible, Sandra creates in POPEYE a specific workspace.*

1/b step 1: After login (see previous action), Sandra selects the Open Workspace button on the POPEYE console. This opens the "Open workspace" dialog box

1/b step 2: Instead of choosing one of the already existing workspaces the system finds (if any), Sandra types the name of the workspace she intends to create in the text field. Then she clicks the OK button.

1/b step 3: Sandra inserts "General Info" in the name fields, and a not too long description of the workspace's goal in the description field:

**Name:** General Info

**Description:** General Information workspace for the 2009 Annual Symposium on Sustainable Development. Here you will find practical information about the event (agenda, maps, etc.) and generic documentation about the symposium's goals and contents.

Sandra sets the admission policy for this workspace as free for every symposium participant (no invitation needed): It is assumed that every authenticated POPEYE user in the Château Villette is a participant to the symposium, hence has access to this generic documentation

She then pushes the "Ok" button and the new workspace is created. The Workspace Explorer window is opened below the POPEYE console.
Action 1/c: (Sandra) Create shared space for the general info workspace

Sandra structures the shared space for the General Info workspace where relevant data will be put and made available to all Symposium participants.

After opening the Workspace Explorer window on the newly created "General Info" workspace, Sandra launches the File Sharing plug-in in order to manage the shared space associated to the workspace.

The shared space has a simple structure as shown in the following picture:

![Structure of the shared space](root)

- **Practical Info**
- **Sustainable Development docs**

1/c step 1: Sandra creates the "Practical Info" folder
1/c step 2: Sandra creates the "Sustainable Development docs" folder

Action 1/d: (Sandra) Share relevant symposium generic information on the workspace

Having created the shared space structure, Sandra shares the files she had previously prepared on her laptop hard disk.

Under the *Practical Info* folder, Sandra shares the following files:

- Symposium Agenda.doc
- Château Villette map.jpg
- Connection information.doc

Under the "Sustainable Development docs" folder, Sandra shares the following files:

- Symposium Objectives.doc
- World energy resources and consumption.pdf
- Ecologically sustainable development.pdf
- ...etc...

From now on, these documents will be accessible to every symposium participant who connects to the POPEYE network and opens the "General Info" workspace.
The second actor for the Demonstration Case, Marcel, is the speaker for a specific tutorial session, "World energy resources and consumption". He also has to log into the system before doing any operation. The steps for this are similar to those described in action 1/a, so they're not repeated here.

**Action 1/f: (Marcel) Create workspace for Marcel's tutorial session**

Marcel is the speaker for one of the Symposium tutorial sessions. He wants to create a workspace specific for his session.

The steps for this action are similar to those performed by Sandra when she created the General Info workspace (see Action 1/b). In this case, Marcel enters the following information after choosing the "New workspace" button on the "Open workspace" dialog box:

**Name:** World energy resources and consumption tutorial

In contrast to the previous case, now Marcel sets the admission policy for this workspace to "Admission with invitation", so that only invited users can join this workspace.

**Action 1/g: (Marcel) Create shared space for Marcel's tutorial session**

As done for the previous workspace, also Marcel has to create a shared space structure to organize relevant documentation for his tutorial session.

1/g step 1: Marcel opens the File Sharing plug-in and starts creating folders for Marcel's Tutorial Session shared space. The folder structure he creates is shown in the following picture:

```
- general & abstract
  - topics
```

1/g step 2: After creating the folder structure, Marcel adds relevant documentation that can be accessed from any user that will be invited to the workspace.
Action 1/h: (Marcel) Invite users to the tutorial session workspace

After creating the workspace, Marcel sends invitations to the users that he thinks might be interested into the tutorial session.

1/h step 1: From the Workspace Explorer user interface, Marcel chooses the specific command "Invite Users". At this point, a dialog box is shown allowing Marcel to filter by a query the set of users and select those that might be interested to participate to the tutorial session.

1/h step 2: The system shows the list of retrieved users. Marcel selects a set of these and sends them the invitation. Among them is John, an expert in world energy resources that Marcel knows might be interested in participating to the session.

1/h step 3: Being online, John receives an invitation message from Marcel that enables him to join the newly created Tutorial Session workspace. From his POPEYE Console, he accepts the invitation and joins the workspace.

Action 1/i: (Marcel, John, other users) Join discussion (chat)

After the Tutorial Session has taken place, the participants would like to have a discussion in order to share opinions and make questions.

Each participant opens the Chat plug-in and joins the discussion session, exchanging opinions, ideas, etc.
3.4 Demonstration Case 2: New User joining POPEYE collaboration

This Demonstration Case describes the activities performed by an inexperienced user (Pedro) using the POPEYE system for the first time. He is instructed at the reception desk by the secretary handling him presentation material on the Symposium, among which an installation CD is present with the self-installing POPEYE software.

<table>
<thead>
<tr>
<th>Actors</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pedro</td>
<td>A Symposium participant who hasn't used POPEYE before.</td>
</tr>
<tr>
<td>Marcel</td>
<td>Symposium Working Group presentation speaker</td>
</tr>
</tbody>
</table>

Action 2/a: (Pedro) Install POPEYE Software

*Pedro has never installed the POPEYE client on his laptop. When he registers at the reception desk he receives, together with some documentation also a CD containing the self-installing software.*

2/a step1: Pedro inserts the CD on his laptop’s reader. The auto-installer starts up and installs the POPEYE client on Pedro’s machine. Being the process completely automatic, no further intervention by Pedro is required.

Action 2/b: (Pedro) Connect to the Captive Portal to get certificate

*Before being able to log into the POPEYE system, Pedro needs to connect the so-called POPEYE Captive Portal in order to register and get a certificate that he will use to create his new POPEYE user account.*

2/b step1: Pedro launches a web browser. He connects to the Portal.
2/b step 2: From the Captive Portal home page, Pedro selects the menu option to register to the POPEYE community.

2/b step 3: At the end of the process, a certificate for Pedro is created and saved on Pedro's laptop. He will use this when creating a new account with the POPEYE client (see Action 2/c).

**Action 2/c: (Pedro) Create new user and log in**

*When Pedro launches the just installed POPEYE client, he has to create a new account in order to be able to log-in the POPEYE network.*

2/c step 1: During installation, an icon for the POPEYE client console was created on the laptop's desktop. Pedro launches the client by clicking on this icon. The POPEYE Console appears with the login/password fields.

2/c step 2: Not having created a POPEYE account yet, Pedro has to choose the "New User" button on the POPEYE Console. The system finds on Pedro's machine the certificate that was downloaded from the Captive Portal as result of Action 2/b and associates this to the new user.

2/c step 3: When Pedro chooses the "Ok" button on the dialog to confirm username and password. The User-profile Explorer is opened under the POPEYE Console (See D6.2 for a description of this). Here, Pedro can complete his profile data. Profile data is manually inserted now by Pedro through the User-profile Explorer User Interface.

**Action 2/d: (Pedro) Join the General Info workspace**

*First thing after installing POPEYE software and creating the new account, Pedro joins the "General Info" workspace created by Sandra in order to get practical information about the Symposium organization.*

*The existence of this workspace was advertised by the paper documentation that was given to Pedro at the reception desk, so he knows what to look for (a list of existing workspaces also appears in "Open Workspace"...).*

2/d step 1: From the POPEYE Console, Pedro chooses the Open Workspace button.

2/d step 2: In the "Open Workspace" dialog box that is shown, Pedro selects the "General Info" workspaces and presses the "Ok" button. The Workspace Explorer window is opened to the selected workspace.
2/d step 3: Pedro launches the File Sharing plug-in and, navigating into the simple folder tree structure, he easily finds the practical and organization information about the symposium that he's looking for (agenda, etc.)

**Action 2/e: (Pedro) Ask for invitation to the Tutorial Session workspace**

*Browser through the symposium agenda, Pedro discovers that Marcel is going to present a tutorial session on "World energy resources". Being particularly interested to the subject, Pedro would like to be invited to take part to the Tutorial Session workspace. Unfortunately Pedro didn't specify in his profile information that Marcel would have used to select him as potentially interested to the session so Marcel didn't invite him.*

2/e step 1: After joining the "General Info" Workspace, Pedro navigates the User-list tab of the Workspace Explorer and finds Marcel among the list of users.

2/e step 2: From here, Pedro sends a message to Marcel asking him to be invited to the Tutorial Session workspace, if possible. Marcel immediately answers that it will be a pleasure to have Pedro among the session participants and sends him an invitation for the workspace.

**Action 2/f: (Pedro) Receive invitation to the Tutorial Session workspace**

*Pedro receives the invitation to Marcel's Tutorial Session workspace and is able to join it [NOT YET IMPLEMENTED].*

2/f step 1: A message appears on Pedro's POPEYE Client with the following message:

> You have been invited to take part to the Workspace "World energy resources and consumption tutorial". Do you accept the invitation?

Pedro presses the "Ok" button to accept invitation to Marcel's workspace.

2/f step 2: A new Workspace Explorer window is opened under Pedro's POPEYE Console to the Workspace for Marcel's Tutorial Session. From now on, Pedro can interact with the other session's participants and have access to the session documentation.
3.5 Demonstration Case 3: Security threat, attempting malicious access

This Demonstration Case describes the attempts of Zorg, a member of the hacking community to find security holes in the POPEYE framework. Zorg is also known as the student Zack and is thus allowed to attend a session on security issues.

This case deals particularly with access control mechanisms involved in the POPEYE network.

<table>
<thead>
<tr>
<th>Actors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zorg</td>
</tr>
</tbody>
</table>

Action 3/a: (Zorg) Trying to enter the POPEYE framework

Zorg, willing to find security holes, first tries to break into the POPEYE network without using its student quality.

3/a step 1: Zorg has been provided a CD of the POPEYE software (He has downloaded it from the internet, as POPEYE is free software, but he could also have stolen the CD from one of the participants of the symposium), so he installs it on its laptop.

3/a step 2: Zorg launches is web browser and is directly redirected to the so-called POPEYE captive portal. He is unable to register through the POPEYE captive portal, and thus to obtain a POPEYE base certificate. However, he decides to go on without the certificate.

3/a step 3: Zorg produces a fake certificate, but soon he concludes that he cannot do anything with the POPEYE network: as the certificate isn’t signed by the trusted authority, he isn’t allowed to perform any operations, like joining a group.
3.6 Demonstration Case 4: Security threat, attempting 'spoofing'

This Demonstration Case describes the attempts of Zorg (already presented in D2.1) to use network analyser tools to steal private information exchanged between other POPEYE network members.

Actors

Zorg

Zorg is a member of the hacking community, eager to find security holes in the POPEYE framework.

other participants

Other users taking part in the symposium

Action 4/a: (Zorg) Listening to the POPEYE communications

Zorg uses network analysing tools to gather every POPEYE communication on his network.

4/a step1: Zorg launches the Wireshark software on his laptop (a networking analysing tool) and thus is able to store every communication exchanged on the POPEYE network, like presented in the figure below.

![Wireshark screenshot](image)

Action 4/b: (Zorg) Trying to enter the POPEYE framework

Zorg analyses the communications and tries to extract some private information

4/b step1: Zorg analyses the data he collected. Soon, he must admit that he won’t be able to retrieve any sensitive data from what he gathered (e.g. group secret keys). Every unencrypted data is data that was already available to him, or that has no interest (that is non confidential data, sent unencrypted on the network). Every data from sensible groups (like the Financial Board one) has been encrypted and Zorg is unable to decrypt it.

So, Zorg could not access to any sensible data, but only data that their creators purposely left unencrypted.
4 First Demonstration Event feedback collection process

Section 4 describes how feedback from the meeting participant has been collected including the questionnaire forms that were given to the participants at the beginning of the event. Actual feedback was collected in the event proceeding document that included as Annex A to the present deliverable.

4.1 Feedback collection process

As mentioned in the previous section, a set of feedback forms were prepared and distributed to the meeting participants at the beginning of the event, together with the other relevant paper material (presentation leaflet, agenda, etc.).

Feedback from the participants mainly contains information of three kinds:

- general data about the participant, his/her organization, interests in the project and in the collaborative working environment area and so on,

- collection of impressions and suggestions for each of the scenarios illustrated in the four Demonstration Cases listed in section 3,

- collection of the POPEYE Requirements relevance and validation for each Demonstration Case, with respect to the list of requirements that were collected in the first phase of the project and that were listed in deliverable D2.2.

The full list of requirements identified in D2.2 is presented to the attendees for useful reference (See the printouts of the feedback forms included in the event proceedings annex) with respect to the requirements validation process.

Requirements are classified into two categories:

- Requirements that are addressed by at least one of the Demonstration Cases. These, left in white background in the requirements table, are those for which feedback relative to Requirements validation is relevant during this First Demonstration.

- Requirements that are not tackled by the current Demonstration. These are left out from the validation process. Though mentioned for completeness in the requirement table, they are highlighted with a grey background to show that they are excluded from the evaluation. These requirements will be validated by other means or demonstrated during the Final Demonstration event at the end of the project lifetime.

For each of the four Demonstration Cases, a feedback form is then presented, where attendees can give remarks, impressions and suggestions besides specific evaluation for each of the relevant requirements.
This specific evaluation was proposed by giving an evaluation mark from 1 to 3 indicating how much the requirement is validated in the considered Demonstration Case, according to the attendee's opinion, or by inserting specific free-form remarks in the corresponding line. The evaluation mark value can be one of the following:

1: Requirement not addressed by Demonstration Case,

2: Requirement partly addressed by Demonstration Case,

3: Requirement fully validated by Demonstration Case.

The following subsection shows the relevant parts of the feedback forms (full printouts are included in the event proceedings in annex).
4.2 **Feedback forms for the meeting participants**

The feedback forms distributed to the meeting attendees are described in the following subsections.

4.2.1 General Data about the participants
4.2.2 Demonstration Case specific feedback

For each one of the four Demonstration Cases, a form is inserted asking for generic remarks, impressions and suggestions about the case itself. Then the list of the relevant requirements is inserted, where the attendee has to insert an evaluation mark concerning the requirements' validation.
5 Conclusions

This document is the first POPEYE deliverable for workpackage WP8 and it refers to the First Demonstration Event set up as a proof-of-concept application for POPEYE and to validate the POPEYE requirements.

The document contains both a description of the event organization and the description of the Demonstration Cases that have been designed for the Demonstration itself. These cases, four in total, have been extracted from POPEYE Baseline Scenario first described in the Contract Annex I - Description of Work, and highlighted in deliverable D6.1 as the Baseline Scenario for the POPEYE proof-of-concept.

Finally, deliverable D8.1 also contains some of the printed material that was distributed to the event attendees, including a presentation leaflet and a set of forms designed to collect the participants’ feedback to the Demonstration.

Their feedback concerning the validation of the project requirements (whose list was extracted from deliverable D2.2) as well as generic remarks or suggestions for improvements they were willing to supply, is collected as an annex to this deliverable in a First Demonstration Event Proceeding document.
Annex A: First Demonstration Event Proceedings

The proceedings of the event is issued in a separate annex to the present document.