



Project acronym: CONCERTO

Project full title: Content and cOntext aware delivery for iNteraCtive multimEdia healthcaRe applicaTiOns

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## Executive Summary

Communication is essential for any cooperative project. Several different forms of electronic communication can be used to reach the goal of smooth information exchange between partners working far from each other. This deliverable introduces all the communication tools installed and operated for supporting the international cooperation within the CONCERTO project. The combination of the information exchange functions in CONCERTO consists of the following main components: electronic mailing lists (e-mail) based on Mailman for thematized communication between partners, SVN (Subversion) for efficient file sharing and version control, and TWiki based website for both public and private information spreading.

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# 1 Introduction

Communication is essential for any cooperative project. Several different forms of electronic communication can be used to reach the goal of smooth information exchange between partners working far from each other. E-mail is one of the most important schemes within that area. Mailing lists / e-mail reflectors can be used to handle contacts of groups of people who are interested in the same topic or work on the same subject. Cooperative projects usually apply electronic mailing lists to help communication between partners at the very start of the work. Partners can subscribe to the thematized e-mail lists, and can easily reach all the relevant people (i.e., partners present on the same lists) by sending e-mails to the reflector. People that are not interested in a topic may just not subscribe to (or unsubscribe from) the list of the particular theme.

Websites play an important role in information provision nowadays. A project website usually serves a two-fold purpose. On the one hand it is the primary tool to disseminate information about the project, its results and actual efforts publicly available to people all around the world. On the other hand it also can be used for private information exchange between the partners. For both of the purposes it is crucial that all the partners are allowed to commit information on the pages of the site: both the public and the private content evolves more dynamically if more partners are authorized to improve it. Of course, precise, reliable and continuous track of changes must be employed in the system level. In order to support the above goals, a Wiki engine is used as the basis of the CONCERTO website because Wiki based websites allow users to create, collaboratively edit or even delete pages via a common web browser.

FTP (File Transfer Protocol) was originally designed to share documents and other files between remote partners. The protocol is quite simple, easily available, and handy. However, too much time has gone over this technology and several drawbacks became considerably serious regarding the usage of FTP. Most importantly, FTP uses unencrypted passwords that can easily be stolen by an attacker who can use the information to read, modify or delete the files on the FTP server. Therefore, more secure file sharing solutions (e.g. SFTP, SCP) gain relevance, web based file sharing utilities appeared and version control systems (VCSs) showed up. Platforms belonging to the latter type make possible to revert any file (document, code, etc.) to a previous revision, which is critical for allowing cooperating partners to track each other's changes, correct bugs or typos, and defend the work against unwanted modifications. Version control softwares are essential for the organization of multi-contributor projects. In the CONCERTO project, we use version control solution called SVN as a comprehensive file sharing source control platform.

This deliverable introduces all the communication tools installed and operated for supporting the international cooperation within the CONCERTO project. The main information exchange functions, that are currently applied and will be introduced in this document are the following: electronic mailing lists (e-mail) based on Mailman, SVN (Subversion) for file sharing and version control, and TWiki based website for both public and private information spreading.

## 2 Project communication instruments

### 2.1 Mailing lists

In the CONCERTO project currently there are three active mailing lists:

- *concerto@mcl.hu* - For general technical information exchange
- *concerto-sim@mcl.hu* - For partners involved in the development work of the simulation chain
- *concerto-adm@mcl.hu* - For partners dealing with project administration.

All of these mailing lists are operated by BME. The *concerto@mcl.hu* list is fully operational since 27th October 2010. It was created well before the beginning of the CONCERTO project in order to help the preparation of the project proposal by speeding up the communication between project partners and easing the organizational work. At the moment the three lists together handle about forty e-mails per month on average. As the work leaves the project's starting phase and the load increases, the traffic of the lists will supposedly grow.

All three mailing lists of CONCERTO are operated using Mailman [7] which is a free software for managing e-mail discussion and e-newsletter lists. Mailman provides a web based user interface which makes it easy for users to manage their accounts and for list administrators to manage their lists. Mailman also supports archiving, automatic bounce processing, digest delivery, content and spam filtering, etc. In general, Mailman is a reliable, flexible, highly configurable, easy to use and completely open source system which stands behind about 90 percent of the e-mail lists of the today's Internet. The current stable Mailman version is 2.1.14, released in September 2010 [7]. On 13th January, 2010, the following e-mail addresses represent the membership of the CONCERTO mailing lists (note that @ characters are replaced with "at" to prevent abuses of spam collectors):

- *concerto@mcl.hu*

andreas.hutter at siemens.com  
benoit.lecroart at nectech.fr  
christian.mouton at nectech.fr  
cyril.bergeron at thalesgroup.com  
e.paolini at unibo.it  
feher.gabor at tmit.bme.hu  
Flavio.Giovanelli at cefriel.it  
Gianluca.gizzi at cefriel.com  
gianmarco.panza at cefriel.com  
goodzi at mcl.hu  
janne.vehkaperä at vtt.fi  
jenedy at hit.bme.hu  
jyrki.huusko at vtt.fi  
lh at ecs.soton.ac.uk  
m.martini at kingston.ac.uk  
mazzotti.matteo at unibo.it  
mchiani at deis.unibo.it  
mgmartini at ieee.org  
p.amon at siemens.com  
paola.magri at cnit.it  
Roberta.FRACCHIA at fr.thalesgroup.com  
roberta.fracchia at thalesgroup.com  
sara.grilli at cefriel.com  
savino.bonavita at cnit.it  
simone.moretti6 at unibo.it  
sxn at ecs.soton.ac.uk  
tech.concerto at nectech.fr  
tiia.ojanpera at vtt.fi  
tiia.sutinen at vtt.fi  
velio.tralli at unife.it

- *concerto-sim@mcl.hu*

ajra1c09 at ecs.soton.ac.uk  
benoit.lecroart at nectech.fr  
bz2g10 at ecs.soton.ac.uk  
christian.mouton at nectech.fr  
e.paolini at unibo.it  
Esa.Piri at vtt.fi  
Gianluca.gizzi at cefriel.com  
Gianmarco.panza at cefriel.com  
goodzi at mcl.hu  
hvn08r at ecs.soton.ac.uk  
Janne.Vehkaperä at vtt.fi  
jz08r at ecs.soton.ac.uk  
lh at ecs.soton.ac.uk  
p.amon at siemens.com  
pb8g10 at ecs.soton.ac.uk  
roberta.fracchia at thalesgroup.com  
sara.grilli at cefriel.com  
sim.concerto at nectech.fr  
simone.moretti6 at unibo.it  
sxn at ecs.soton.ac.uk  
tiia.ojanpera at vtt.fi  
tw08r at ecs.soton.ac.uk  
velio.tralli at unife.it  
yh3g09 at ecs.soton.ac.uk

- *concerto-adm@mcl.hu*

catherine.radet at thalesgroup.com  
admin.concerto at nectech.fr  
andreas.hutter at siemens.com  
benoit.lecroart at nectech.fr  
christian.mouton at nectech.fr  
Flavio.giovanelli at cefriel.com  
Gianmarco.panza at cefriel.com  
goodzi at mcl.hu  
ihanicsek at mik.bme.hu  
imre at hit.bme.hu  
Janne.Vehkaperä at vtt.fi  
lh at ecs.soton.ac.uk  
p.amon at siemens.com  
roberta.fracchia at thalesgroup.com

All the CONCERTO mailing lists are also configurable by the individual members using the web based user interface. List archives are available from the respective configuration pages ( [6] [8] [1]).

## 2.2 SVN

In CONCERTO, Subversion [2] is employed for advanced file sharing purposes. Subversion (abbreviated as SVN after the command name *svn*) is an advanced versioning and revision control software distributed under Apache license [4]. The development of SVN was started in 2000 by CollabNet Inc. [5], aiming to create an open-source version control system similar to (and mostly compatible with) CVS (Concurrent Versions System) [3] but fixing the bugs and supplying the missing features of the predecessor. Later on, SVN was transferred into Apache Incubator and the process to handle SVN as a standard top-level Apache project has begun. Since 2010 SVN is a

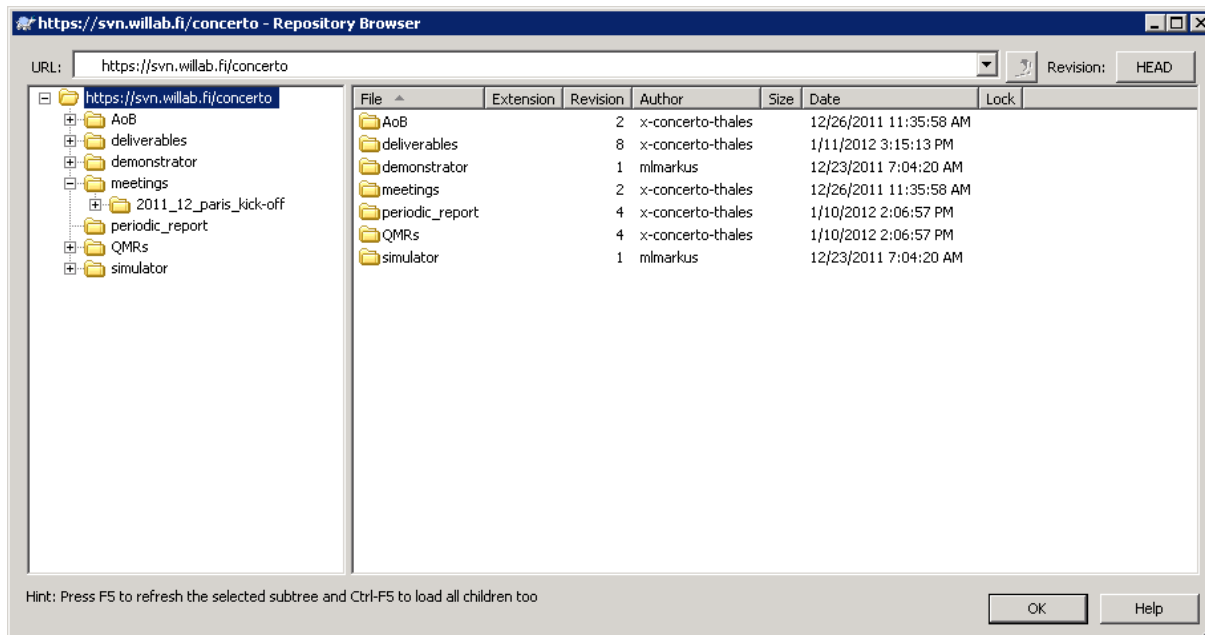


Figure 1: Browser window of the Tortoise SVN client [9] when accessing the CONCERTO SVN repository

top-level Apache project and developers all over the world use the system to maintain different data collections and versions of files (e.g., software codes, documentation, websites, etc.). The open source community also applied the SVN: developments like FreeBSD, GCC, SourceForge, and PHP are based on the advanced toolset provided by Subversion, and Google Code also provides SVN hosting. The main features of the SVN system:

- Supporting most of the CVS functions
- Committing as a true atomic operation
- Maintenance of versioning for directories, deletes, renames, and file metadata
- Versioning of symbolic links
- Locking of files
- Supporting binary files natively
- Network reachability by Apache HTTP Server as network server, WebDAV/Delta-V for protocol
- Native clientserver operation
- Open source license
- and many others

The CONCERTO SVN repository (see Figure 1) was launched in December 2011 by VTT (VTT Technical Research Centre of Finland). The SVN repository can be reached from the following address: <https://svn.willab.fi/concerto>. Currently, the repository includes seven main folders:

- AoB
- deliverables
- demonstrator
- meetings



- periodic report
- QMRs
- simulator

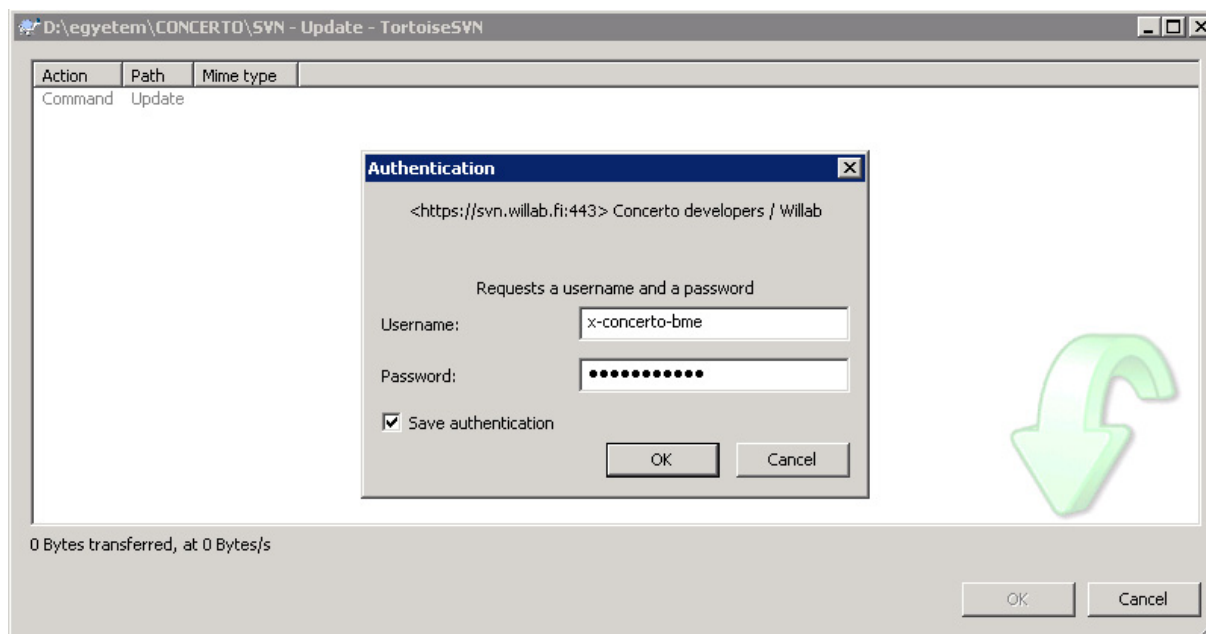


Figure 2: Authentication screen of the Tortoise SVN client [9] when accessing the CONCERTO SVN repository

VTT has provided usernames and passwords to each registered project partner (one username per partner has been made at the moment). After a successful password based authentication, permitted partners can access resources of the CONCERTO SVN repository by using their preferred Subversion client (see an example on Figure 2). A broad list of well known and widespread SVN clients are available in [13]. Without authentication, users are not permitted to access any content on the repository.

### 2.3 Project website

The CONCERTO project website will be available at <http://ict-concerto.eu>, but at the moment it can be found under a temporary domain name (<http://concerto.hit.bme.hu>) because of the ongoing domain registration procedure. The website is built on the Wiki approach in order to support concurrent editing and enhanced versioning: Wiki sites make authorized users able to add, modify, or delete web content via a browser using a simple markup language or a rich-text editor. Wikis are usually powered by a special Wiki software and are often operated in a collaborative manner, by several interworking partners. The CONCERTO Wiki uses the specific engine so called TWiki [12]. TWiki is a powerful, flexible, and easy to use wiki based enterprise collaboration and web application platform, typically employed to set up project development spaces, document management systems, or similar groupware tools, either on intranet, extranet or on the Internet.

The TWiki based CONCERTO website (see the main page in Figure 3) is administrated and operated by the Hungarian project partner BME. By default, only registered users are permitted to edit/change the content of the CONCERTO pages, and without authorization it is only possible to view the public pages. In this way, the outside world (i.e., people not involved in the project) can find and see all the public information and content about CONCERTO. In order to prohibit unauthorized change of content, users wanting to modify pages on the site have to be registered. Any individual working on the CONCERTO project is able to register, but it is not automatic as due to security reasons online registration has been disabled. In place of online registration the individual sends an email to the administrator, where he/she indicates the desired TWiki account name. The website administrator checks the e-mail address (whether it is on the CONCERTO mailing lists) and confirms the message with a response

Home Concerto Web View Edit Account

collaborate with **TWiki** Twiki, Inc. Jump Search Edit Attach

Tags: [create new tag](#), [view all tags](#)

Welcome to the ICT-Concerto project website !

# Concerto

**Project partners**

THALES SIEMENS VIT KINGSTON UNIVERSITY UNIVERSITY OF Southampton CEFRIEL cnit NEC

**Project objectives**

CONCERTO (Content and cOntext aware delivery for iNteraCtive multimedia healthcaRe applications) is an FP7 STREP project aiming at designing and validating several critical building blocks of telemedicine applications. These include network-aware applications that rely on content-aware codecs and storage formats, carried over an application-aware network. The ultimate aim of CONCERTO is to provide high a Quality of Experience (QoE) for medics, which is a necessary condition for providing flawless medical diagnosing of the highest reliability.

CONCERTO will achieve this ambitious goal by the joint optimization of several tightly coupled system components, which form an organic ensemble, rather than a simple interconnected conglomerate. The 'conductor of the CONCERTO' relies on its advanced signaling system, which will support the real-time end-to-end adaptation of the constituent blocks designed for efficiently conveying the medical signals and video streams, potentially emanating from multiple, uncorrelated and rapidly moving sources. The 'players' are from leading-edge companies, universities and research centers with a proven experience and key positions spanning from video coding to wireless communications, collaborating with doctors and medical staff of the hospital of Perugia (participating as University of Perugia).

Figure 3: Main page of the CONCERTO website

e-mail if the individual is indeed a CONCERTO worker. Only after such a verification the administrator creates the CONCERTO TWiki account. The account will be initiated with the same password as the account name, therefore the user is requested to change this password at the very first login.

If a registered user successfully logs in the website using the appropriate account name and password pair, he/she will be able to add new pages, modify existing pages, upload and download any materials. At the moment there are no fine grade permissions in the system: every registered user has the same rights. However, there is an important limitation: even if registered, users are not allowed to add new users. This remains the authority of the site administrator.

Creating new pages, editing existing pages, upload files and similar functions are very easy to use based on the well detailed TWiki tutorials [11] [10]. The text formatting rules are also straightforward and fast to learn: the users feel the same comfort as in front of any WYSIWYG text editors.

Performed changes can be easily tracked by the History tool implemented in TWiki. The lower menu line of each page contains a "History" link which depicts all the previous versions of the current page, which makes easy to compare different versions to each other. This is really convenient as users can check what has been changed on any pages of the website.

The TWiki engine makes it possible to quickly fill the site up with content: partners of the project can concurrently work on adding/editing pages and upload texts, publications, project documents, images and other material naturally supporting the dissemination and communication activities of CONCERTO.

### 3 Conclusion

This document describes the main communication components successfully installed and employed within the frames of the CONCERTO project. The introduced tools are electronic mailing lists, SVN based file sharing and version control platform, and public/private TWiki website. In case any enhancements of the above elements apply or a new communication instrument appears in the future, this deliverable will be updated.

## Glossary

<b>AoB</b>	Any other Bussines, 9
<b>BME</b>	Budapest University of Technology and Economics, 6
<b>CONCERTO</b>	Content and cOntext aware delivery for iNteraCtive multimEdia healthcaRe applicaTiOns, 5
<b>CVS</b>	Concurrent Versions System, 8
<b>FTP</b>	File Transfer Protocol, 5
<b>GCC</b>	GNU Compiler Collection, 8
<b>HTTP</b>	Hypertext Transfer Protocol, 9
<b>Mailman</b>	Mailing List Manager, 8
<b>PHP</b>	PHP: Hypertext Preprocessor, 8
<b>QMR</b>	Quarterly Management Report, 9
<b>SCP</b>	Secure Copy, 5
<b>SFTP</b>	Secure File Transfer Protocol, 5
<b>SVN</b>	Subversion, 5
<b>VCS</b>	Version Control System, 5
<b>VTT</b>	VTT Technical Research Centre of Finland, 9
<b>WebDAV</b>	Web-based Distributed Authoring and Versioning, 9
<b>WWW</b>	World Wide Web, 9
<b>WYSIWYG</b>	what you see is what you get, 11

## References

- [1] Concerto adm mailing list. Concerto-adm mailing list private interface, January 2012. <http://mcl.hu/mailman/private/concerto-adm>.
- [2] Inc. CollabNet. Apache subversion, December 2011. <http://subversion.apache.org/>.
- [3] CVS. Concurrent versions system, December 2006. <http://cvs.nongnu.org/>.
- [4] The Apache Software Foundation. Licenses, 2012. <http://www.apache.org/licenses/>.
- [5] CollabNet Inc. Collaborative software development, January 2012. <http://www.collab.net/>.
- [6] Concerto mailing list. Concerto mailing list private interface, January 2012. <http://mcl.hu/mailman/private/concerto>.
- [7] Mailman official website. Mailman, the gnu mailing list manager, September 2010. <http://www.list.org/>.
- [8] Concerto sim mailing list. Concerto-sim mailing list private interface, January 2012. <http://mcl.hu/mailman/private/concerto-sim>.
- [9] TortoiseSVN. An easy-to-use scm / source control software for microsoft windows, January 2012. <http://tortoisesvn.net/>.
- [10] TWiki. Text formatting rules, November 2011. <http://twiki.org/cgi-bin/view/TWiki/TextFormattingRules>.
- [11] TWiki. 20-minute twiki tutorial, November 2011. <http://twiki.org/cgi-bin/view/TWiki/TWikiTutorial/>.
- [12] TWiki. Twiki - the open source enterprise wiki and web 2.0 application platform, January 2012. <http://twiki.org/>.
- [13] Wikipedia. Comparison of subversion clients, January 2012. [http://en.wikipedia.org/wiki/Comparison\\_of\\_Subversion\\_clients](http://en.wikipedia.org/wiki/Comparison_of_Subversion_clients).