

Pre-normative research for safety of hydrogen driven vehicles and transport through tunnels and similar confined spaces

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Website

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Summary

This deliverable reports on HyTunnel-CS project website that is developed and maintained during and beyond the project life by UU. The website <http://www.hytunnel.net> constitutes an actual deliverable as per the description of actions (DoA). It is hosted externally at www.123-reg.co.uk. The HyTunnel-CS homepage was publicly available in month 1 of the project. The website consists of two main areas:

- The public area of the website, which contains publicly available information related to the project i.e. information about the project and partners, events, newsletters etc.
- The internal area of the website called *Members Area* protected with a user name and a password for each user. This confidential area is a secured domain for uploading, storage and exchange of project documents i.e. deliverables, milestones, meeting presentations, experimental data, photos etc. by the participants. It allows to share documents and keep track on the activities of the groups and participants.

It is stated in DoA that the website will be supported for at least 5 years after the project completion. The domain name has been purchased for 10 years onwards and hosting is being prepaid on an annual basis until further notice.

Keywords

Website, Members Area, Secured Domain, Social Networks, News, Dissemination.

Table of contents

Disclaimer	2
Summary	3
Keywords	3
Table of contents	4
List of figures	5
List of tables	5
1. Introduction	6
2. Public area of the website	6
2.1 Structure	6
2.2 Header and footer	8
3. Members area of the website	9
3.1 Participants	9
3.2 Documents	10
3.2.1 Structure	10
4. Forum	12
4.1 How to start working	12
4.2 Structure	13
4.3 Rules	15
5. Data protection	15
6. Conclusions	15
7. Appendix – HyTunnel-CS Privacy Policy	16

List of figures

Figure 1. A screenshot of the website header.	8
Figure 2. A screenshot of the website footer.	9
Figure 3. A screenshot of the login prompt screen to secured document area.	10
Figure 4. A screenshot of the documents area of the project website.....	11
Figure 5. A screenshot of the document folder structure.	12
Figure 6. A screenshot of the Forum access page.....	13
Figure 7. A screenshot of the Forum page.	14
Figure 8. Privacy preferences bar with button for agreement shown to any new HyTunnel-CS website visitor.	15

List of tables

Table 1. Contact information template for the partners.	9
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1. Introduction

The HyTunnel-CS website has been built using a WordPress (Version 5.2.1) (<https://wordpress.org/>, <https://en.wikipedia.org/wiki/WordPress.com>). The website is hosted externally at www.123-reg.co.uk.

WordPress has developed from a blogging software solution into the world leading Content Management System CMS with more than 30% of all websites worldwide being implemented with WordPress. It provides a consistent split of content and view, which goes well beyond the classical tools like Cascading Style Sheets. For the actual blogging WordPress offers „posts“, providing a flexible, dynamic and highly interactive scheme, and for the more static content, WordPress offers the „pages“ construct. All content, including posts, pages or other content like events, newsletters, tables etc. are stored in a central database.

2. Public area of the website

The public area of the website is the main source of information about the HyTunnel-CS project for all interested visitors and stakeholders. The main content of the website is subdivided into seven sections in the navigation bar. Six sections can be accessed by the public and the *Members Area* provides an access to the internal communication area of the website and available only to the project partners.

2.1 Structure

The homepage introduces interested users to the project (see Figure 2). It also contains announcements and any relevant update on the project events. Each page of the website has four areas: a header containing HyTunnel-CS logo; a navigation bar; information related to a selected menu/sub-menu and a footer. The navigation bar has seven tabs. When a cursor is placed on each tab, a drop-down menu (and sub-menus) opens. This area is surrounded by a grey frame. The functionality of the navigation bar is detailed below.

- **Home:**
 - *About HyTunnel-CS.* This sub-menu describes the objectives and outcomes of the project.
 - *Beneficiaries.* This sub-menu lists and provides the details of the organisations involved in the HyTunnel-CS project.
 - *SAB.* This sub-menu contains information about the Stakeholders Advisory Board.
 - *Partners Facilities.* This page contains a photo gallery where partners show pictures of their experimental, training and test facilities which further aids the advertisement of the project activities and its visibility.
- **Implementation:**
 - *Project structure.* This sub-menu provides the information about the overall structure of the project as well as a list of all the work-packages with a brief description of the work to be done in each.
 - *Deliverables.* This sub-menu lists all the project deliverables. In this page, the visitors are able to download the deliverables released to the public.
 - *Milestones.* This sub-menu lists the milestones to be achieved within the project.

- **Meetings:**

- *All.* This sub-menu lists all past and forthcoming meetings.
- Also, all passed meetings will appear in the drop-down menu. A short description of the meeting and main outcomes will be provided for each of them.

- **Seminars:**

This sections presents information about the dates, venues, program etc. on the following list of events planned within the project and beyond:

- *Internal seminar on knowledge and technology exchange:*
- *International workshop of first responders*
- *Internal seminar on research conclusions for use by emergency services*
- *Stakeholders' Workshop*
- *Dissemination Conference*
- *Other:* Other relevant news and events such as conferences, courses, workshops, exhibitions e.g. JESS, ICHS, ISFEH, HySafe Research Priorities Workshop, etc.

- **Dissemination:**

- *News feed.* This sub-section provides a link to the project blog where relevant news and adverts are presented. It is merely to engage the public, and it is set for public access.
- *Newsletters.* This sub-section contains the whole list of newsletters delivered during the life of the project.
- *Joint publications.* This sub-section contains the list of all publications delivered by partners during the project.
- *Social networks:* Provides access to the following social networks:
 - Facebook
 - Twitter
 - LinkedIn
- *Recommendations to RCS.* This section will contain the link to the document with performance-based requirements to regulators and SDOs in the form of commonly agreed, scientifically based recommendations for the update of relevant RCS by the end of the project.
- *Recommendations for inherently safer use of hydrogen vehicles in underground transportation systems.* This section will contain the link to the document with developed and validated hydrogen incident/accidents prevention and mitigations strategies by the end of the project.

- **Links:**

The purpose of this tab is to provide a collection of links to the useful sources structures, which is supposed to be updated during the course of the project. The list of links follows the structure below:

- *Hydrogen safety*
- *Associations*
- *RCS*
 - *Regulations*

- *Codes/Best practice*
- *Standards*
- *Projects*
- *Databases*
- *Vehicles and refuelling stations*
- *Education*
- **Members area:**
 - *Participants*
 - *Documents*
 - *Forum*

2.2 Header and footer

All pages of the website contain information in between the page header and footer shown in Figure 1 and Figure 2 respectively. Upon clicking on the respective link navigating through the menu, the information of the selected page will be presented in between the header and footer.



Figure 1. A screenshot of the website header.

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SITE SEARCH

Figure 2. A screenshot of the website footer.


3. Members area of the website

The members area of the website is represented by the separate tab inside the main menu. This tab has the following sub-sections: Participants, Documents, Forum. All three are password protected with access only for the consortium partners.

3.1 Participants

This sub-section contains the information about all colleagues in the consortium in the format shown in table 1. Since there are more than 50 people involved in the project, it is useful for all partners to identify colleagues and have all contact detail in hand.

Table 1. Contact information template for the partners.

	<p>Name: Title Name Surname – Job Post Company: Institution Name Address: Address of the institution Phone: Contact phone number +(**) **** * Email: *****@***.***</p>
---	---

The login information for the sub-section has been distributed among partners via email.

3.2 Documents

This sub-section provides the secured domain for uploading, storage and exchange of project documents, i.e. deliverables, milestones, meeting presentations, experimental data, photos, etc., by the participants. It allows to share documents and keep track on the activities of the groups and participants. This section is based on open source file hosting service <https://nextcloud.com>. Nextcloud application functionally is similar to Dropbox. Unlike Dropbox Nextcloud does not offer off-premises file storage hosting, it is free and open-source, which means that anyone is allowed to install and operate it on their own private server devices. It allows adding functionality to the server in the form of applications and enables users to have full control of their data.

3.2.1 Structure

When clicking the documents link, the user will be redirected to enter the login and password as shown in Figure 3. User's credentials were created for all participants and distributed well in advance. Users could change the password, create folders and upload the documents.

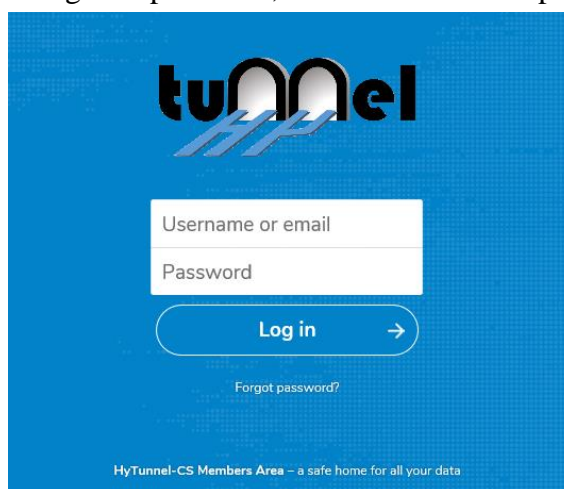


Figure 3. A screenshot of the login prompt screen to secured document area.

Upon logging user will see the screen as shown in Figure 4.

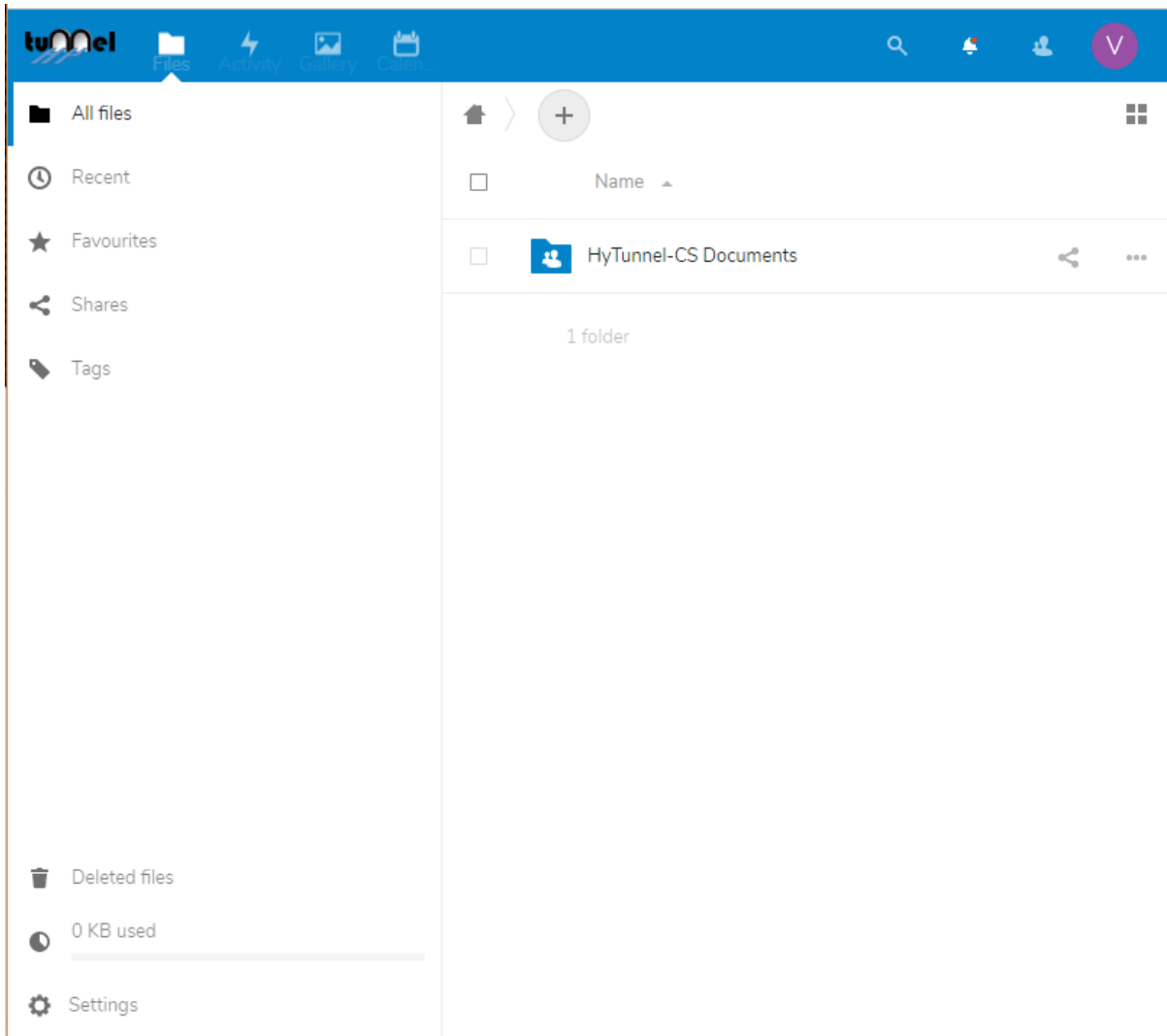


Figure 4. A screenshot of the documents area of the project website.

The main folder “HyTunnel-CS Documents” can be seen. This is a Group folder and admin configure folders shared by everyone in a group. Folders can be configured from Group folders in the admin settings. After a folder is created, the admin can give access to the folder to one or more groups, control their write/sharing permissions and assign a quota for the folder etc.

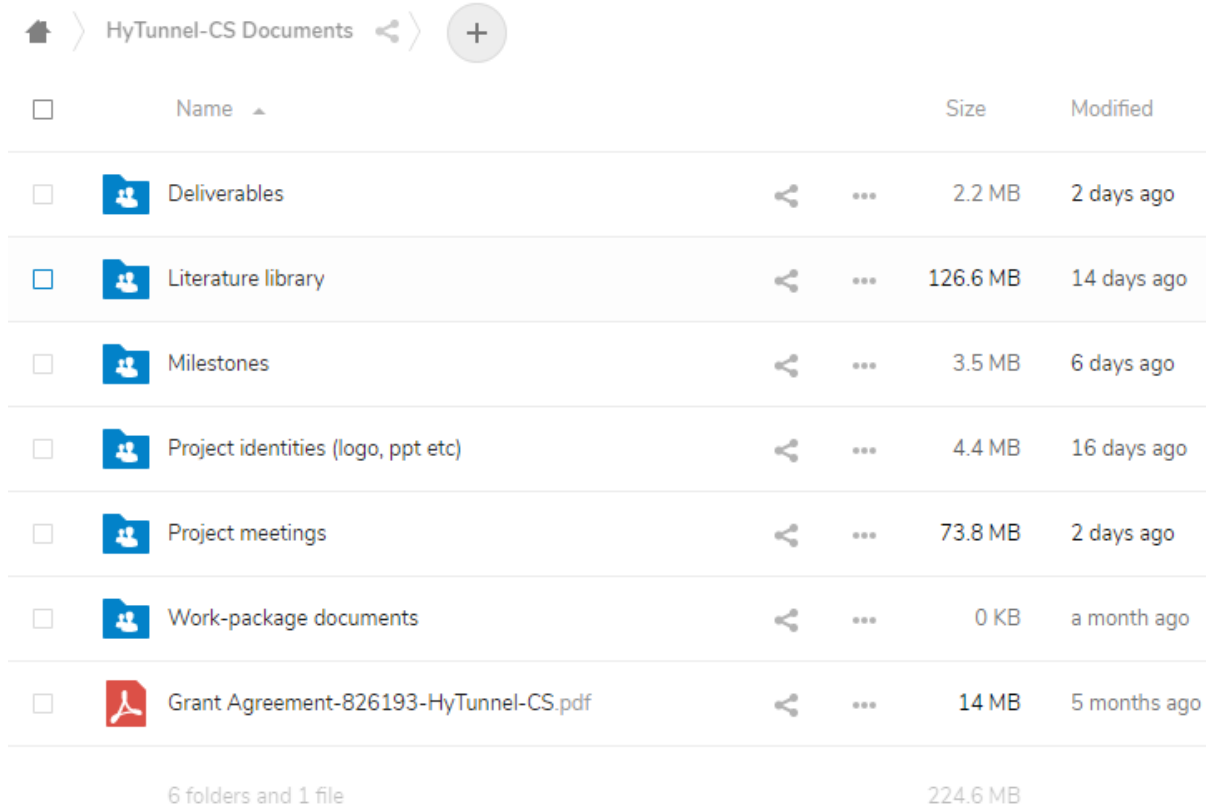
Admin can configure the server to automatically send out e-mail notifications to users for various events. At the moment the notifications for the following activities are set:








- A new file or folder has been created
- A file or folder has been changed or renamed
- A file or folder has been deleted
- A file or folder has been restored
- A file has been added to or removed from your favourites
- A file or folder has been shared
- A file or folder was shared from another server
- A file or folder shared by mail or by public link was downloaded
- A calendar was modified
- A calendar event was modified

- A calendar “to do” was modified
- Comments for files

Users can see actions (delete, add, modify) that happen to files they have access to. Sharing actions are only visible to the sharer and sharee.

The structure of the main folder “HyTunnel-CS Documents” can be seen in Figure 5.



<input type="checkbox"/>	Name	Size	Modified
<input type="checkbox"/>	 Deliverables	2.2 MB	2 days ago
<input type="checkbox"/>	 Literature library	126.6 MB	14 days ago
<input type="checkbox"/>	 Milestones	3.5 MB	6 days ago
<input type="checkbox"/>	 Project identities (logo, ppt etc)	4.4 MB	16 days ago
<input type="checkbox"/>	 Project meetings	73.8 MB	2 days ago
<input type="checkbox"/>	 Work-package documents	0 KB	a month ago
<input type="checkbox"/>	 Grant Agreement-826193-HyTunnel-CS.pdf	14 MB	5 months ago

6 folders and 1 file 224.6 MB

Figure 5. A screenshot of the document folder structure.

4. Forum

Following the Stakeholders Advisory Board (SAB) feedback and general discussion during kick-off meeting it was proposed to create a forum on the website where it is possible for the SAB and the consortium to pose questions and improve communication within the consortium and with the SAB and National Networks.

4.1 How to start working

The forum is password protected with the same credentials as those needed to access the Participant page. Whenever user clicks the *Forum* link, the password screen will appear prompting to access the page as shown in Figure 6. The user is requested to fill a captcha to prove is not a robot.

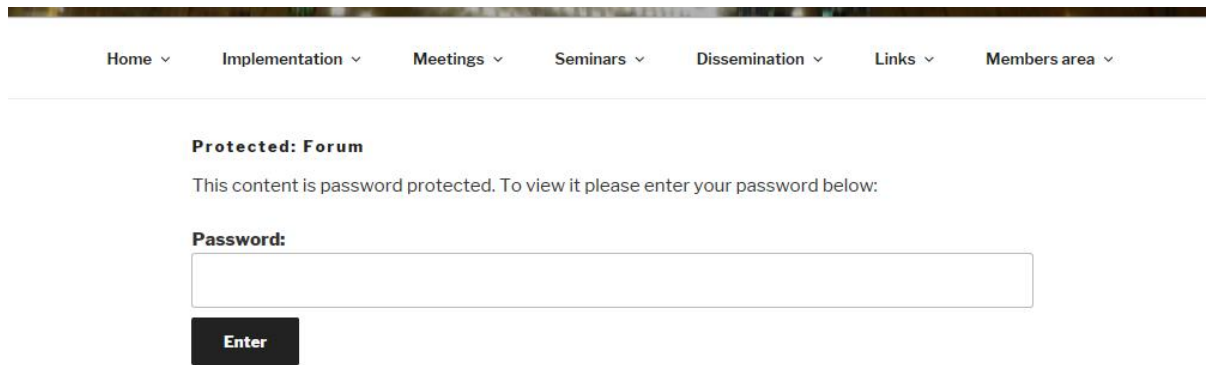


Figure 6. A screenshot of the Forum access page.

In order to start creating posts, user should identify himself and get registered, so that all other users would know who is contributing into the discussion. For the convenience of the partners, the same credentials as for the *Documents* area can be used.

Users should use nicknames that could easily identify them to the colleagues and organisation. The forum rules are presented in Section 4.3.

4.2 Structure

Upon successful login the next screen will show the forum as in Figure 7.








The structure of the forum is divided into categories as per number and title of the work packages.

Protected: Forum

Forum | Members | Activity | Login | Register | Search ...






You need to log in to create posts and topics.

Forum

Example Category	Last post
<p> WP1 - The state-of-the-art in safety provisions for underground transportation systems and accident scenarios prioritisation Lead beneficiary (KIT). Please post all WP related issues in here. <i>0 Topics - 0 Posts</i></p>	No topics yet!
<p> WP2 - Effect of mitigation systems on hydrogen release and dispersion in confined spaces Lead beneficiary (NCSR). Please post all WP related issues in here. <i>0 Topics - 0 Posts</i></p>	No topics yet!
<p> WP3 - Thermal and pressure effects of hydrogen jet fires and structure integrity Lead beneficiary (DTU). Please post all WP related issues in here. <i>0 Topics - 0 Posts</i></p>	No topics yet!
<p> WP4 - Explosion prevention and mitigation. Lead beneficiary (HSE). Please post all WP related issues in here. <i>0 Topics - 0 Posts</i></p>	No topics yet!
<p> WP5 - First responders' intervention strategies and tactics for hydrogen accidents in underground transportation systems and risk assessment. Lead beneficiary (IFA). Please post all WP related issues in here. <i>0 Topics - 0 Posts</i></p>	No topics yet!
<p> WP6 - Synthesis, outreach and dissemination. Lead beneficiary (FHA). Please post all WP related issues in here. <i>0 Topics - 0 Posts</i></p>	No topics yet!
<p> WP7 - Management. Lead beneficiary (UU). Please post all WP related issues in here. <i>0 Topics - 0 Posts</i></p>	No topics yet!

New posts Nothing new Mark All Read Show Unread Topics

Statistics

 0 Topics	 0 Posts	 0 Views	 1 Users
 2 Online			

Newest Member: uu_admin · Currently Online: uu_admin, 1 Guest

Figure 7. A screenshot of the Forum page.

4.3 Rules

1. No spam. All automated messages, advertisements, and links to competitor websites will be deleted immediately.
2. Post in relevant sub-forums only. Messages posted in the wrong topic area will be removed and placed in the correct sub-forum by moderators.
3. Respect other users. No flaming or abusing fellow forum members. Users who continue to post inflammatory, abusive comments will be deleted from the forum after two warnings are issued by moderators.
4. Harassment. No threats or harassment of other users will be tolerated. Any instance of threatening or harassing behaviour is grounds for deletion from the forums.
5. Illegal content. No re-posting of copyrighted materials or other illegal content is allowed. Any posts containing illegal content or copyrighted materials will be deleted.

5. Data protection

The European General Data Protection Regulation (GDPR) requires information about what kind of data is stored on the respective websites for what kind of purpose. If a user visits the HyTunnel-CS website the first time generally, or after cleaning his systems and deleting all cookies of the browser system, has to agree to the “Privacy Preferences”. The privacy preferences text, summarizing the privacy policy of the project, is presented in Appendix – HyTunnel-CS Privacy Policy.

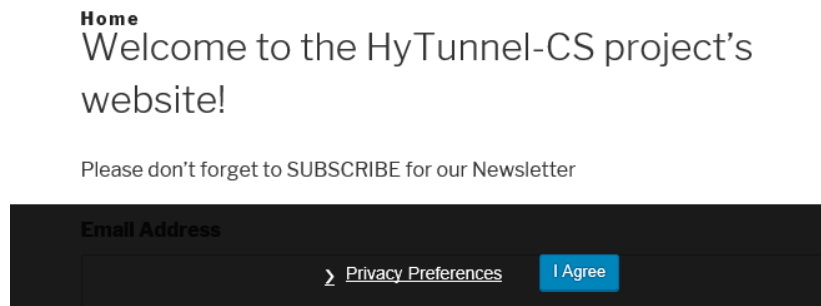


Figure 8. Privacy preferences bar with button for agreement shown to any new HyTunnel-CS website visitor.

The described functionality is implemented via the free “GDPR” plugin by Trew Knowledge, see <https://wordpress.org/plugins/gdpr/>.

6. Conclusions

UU have developed and will undertake the maintenance of the project website. The structure of the website includes public and secured domains for uploading and exchange of documents by the participants. The hosting and domain for the website will be supported for at least 5 years after the project and has been already prepaid. The content of the HyTunnel-CS website is being constantly updated as the project progresses.

7. Appendix – HyTunnel-CS Privacy Policy

Your privacy is very important to us. At the management team of the HyTunnel-CS project we have a few fundamental principles that we follow:

We don't ask you for personal information unless we truly need it. (We can't stand services that ask you for things like your gender or income level for no apparent reason.) We don't share your personal information with anyone except to comply with the law, develop our products, or protect our rights. We don't store personal information on our servers unless required for the on-going operation of our site. The HyTunnel-CS management team operates <http://www.hytunnel.net> on the basis of a WordPress.

Website Visitors

Like most websites, also the HyTunnel-CS website collects non-personally-identifying information of the sort that web browsers and servers typically make available, such as the browser type, language preference, referring site, and the date and time of each visitor request. HyTunnel-CS purpose in collecting non-personally identifying information is to better understand how visitors use its website. From time to time, HyTunnel-CS may release non-personally-identifying information in the aggregate, e.g., by publishing a report on trends in the usage of its website.

The HyTunnel-CS website also collects potentially personally-identifying information like Internet Protocol (IP) addresses for logged in users and for users leaving comments on our blogs. The project consortium only discloses logged in user and commenter IP addresses under the same circumstances that it uses and discloses personally-identifying information as described below, except that blog commenter IP addresses are visible and disclosed to the administrators of the blog where the comment was left.

Gathering of Personally-Identifying Information

Certain visitors to HyTunnel-CS website choose to interact with the project consortium in ways that require to gather personally-identifying information. The amount and type of information that the HyTunnel-CS website management team gathers depends on the nature of the interaction. For example, we ask visitors who comment on our blog to provide a username and email address. Those who wish to receive updates via email, we collect their emails. In each case, we collect such information only insofar as is necessary or appropriate to fulfil the purpose of the visitor's interaction with HyTunnel-CS. HyTunnel-CS does not disclose personally-identifying information other than as described below. And visitors can always refuse to supply personally-identifying information, with the caveat that it may prevent them from engaging in certain website-related activities.

Aggregated Statistics

The HyTunnel-CS website management team may collect statistics about the behaviour of visitors to its websites. For instance, HyTunnel-CS may monitor the most popular pages on respective web services or use spam screened by the Akismet service to help identify spam. The HyTunnel-CS website management team may display this information publicly or provide it to others. However, the HyTunnel-CS website management team does not disclose personally-identifying information other than as described below.

Protection of Certain Personally-Identifying Information

The HyTunnel-CS website management team discloses potentially personally-identifying and personally-identifying information only to those of its members, contractors and affiliated organizations that (i) need to know that information in order to process it on the project's behalf or to provide services available at the HyTunnel-CS website, and (ii) that have agreed not to disclose it to others. Some of those members, contractors and affiliated organizations may be located outside of your home country; by using the HyTunnel-CS website, you consent to the transfer of such information to them. The HyTunnel-CS website management team will not rent or sell potentially personally-identifying and personally-identifying information to anyone. Other than to its members, contractors and affiliated organizations, as described above, HyTunnel-CS discloses potentially personally-identifying and personally-identifying information only in response to a subpoena, court order or other governmental request, or when the HyTunnel-CS website management team believes in good faith that disclosure is reasonably necessary to protect the property or rights of HyTunnel-CS consortium, third parties or the public at large. If you are a registered user of the HyTunnel-CS website and have supplied your email address, HyTunnel-CS may occasionally send you an email to tell you about news, new features, solicit your feedback, or just keep you up to date with what's going on with HyTunnel-CS and our products and work packages. We primarily use our blog and newsletter to communicate this type of information, so we expect to keep this type of email to a minimum. If you send us a request (for example via a support email or via one of our feedback mechanisms), we reserve the right to publish it in order to help us clarify or respond to your request or to help us support other users. The HyTunnel-CS website management team takes all measures reasonably necessary to protect against the unauthorized access, use, alteration or destruction of potentially personally-identifying and personally-identifying information.

Cookies

A cookie is a string of information that a website stores on a visitor's computer, and that the visitor's browser provides to the website each time the visitor returns. HyTunnel-CS website uses cookies to help the HyTunnel-CS management team identify and track visitors, their usage of HyTunnel-CS website, and their website access preferences. HyTunnel-CS website visitors who do not wish to have cookies placed on their computers should set their browsers to refuse cookies before using HyTunnel-CS websites, with the drawback that certain features of HyTunnel-CS websites may not function properly without the aid of cookies.