



An On-line Emergency Planning Service for Facilities in the Geneva Region Susceptible to Major Hazards

1. Introduction
2. Access portal and online service
3. Contents of an emergency planning dossier
4. Technology and information flow among actors
5. INTERNET security
6. Some functionalities, examples
7. Conclusions

Dr Alberto SUSINI

Geneva Labor Inspectorate
Environmental Affairs

1. Introduction

The on-line emergency planning system :

- is an Internet based system and infrastructure intended to aid in the collection of information about safety needs
- addresses mainly the authorities and intervention services working under the framework of the Swiss Federal Ordinance on Major Accidents (OMA)

This service was developed with the support of a partnership with the City of Geneva Fire Brigade, the Geneva Labor Inspectorate Section of the Environmental Affairs Department of the State of Geneva and a private company named Work Flow System WFS SA .

1. Introduction

This service features specific interfaces to manage emergency planning dossiers for authorities and plant owners in the Canton of Geneva:

- The owner of the site or plant assumes responsibility for the dossier.
- The authorities assume responsibility for monitoring and verifying the dossier.
- The private technical office in charge of deployment of the online service and monitoring assumes responsibility for conformity of the data with the graphic chart issued by the Geneva Fire Brigade.

Groups of information and documents are released selectively for publication.

Only identified and authorized users can access information depending on their respective accreditation levels.

This online service is known as **the online emergency planning dossier**.

2. Access portal and on-line service

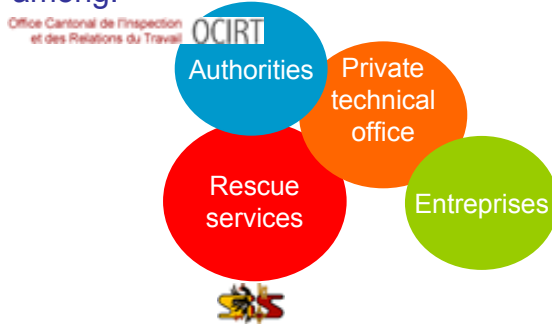
The online emergency planning dossier is a system of safety planning and management. The design of the portal ensures that **access is secure**.

Login access is possible here:

- for registered users
- to see graphic charts
- to transmit plans
- to get support

This information is sent securely.

The **DI Dispatch** program managed by the fire brigade calling center allows authorized users to consult online the emergency planning dossier whenever an automatic alarm has been set off by one of the attached technical installations. It facilitates information exchange among:



WFSNetwork.com - Microsoft Internet Explorer

Fichier Edition Affichage Favoris Outils ?

Adresse <http://www.wfsnetwork.com/>

Work Flow Systems WFS SA

Dossier d'Intervention & Dispatch

Accueil | Inscription | Conditions | Tarifs | Services | Société | Partenaires | Emplois

15 juin 2005

Dossier d'intervention

ID-Communauté

ID-Utilisateur

Mot de passe

[Mot de passe oublié ?](#)

Support

[Charte graphique SIS](#)
[Transmission de plans](#)
[Téléchargements](#)
[Assistance client](#)

DI Dispatch

Login

Mot de passe

N° ACN

Accueil

Une intervention efficace grâce au dossier d'intervention

En cas de sinistre le **dossier d'intervention** constitue un outil essentiel.

Comment accéder au sinistre ?
Où intervenir d'abord ?
Que protéger en priorité ?

Le dossier d'intervention apporte immédiatement les informations clés nécessaire aux bonnes décisions.

Les compétences seront mieux utilisées, les dégats seront limités, des vies seront peut-être sauvées.

Il est donc vital de fournir et de tenir à jour les éléments du dossier d'intervention. C'est dans le meilleur intérêt, non seulement de l'organisation concernée et des forces d'intervention, mais aussi du voisinage du site et de son environnement.

Un dossier d'intervention à jour grâce au traitement en ligne

Le dossier d'intervention **informatisé** apporte une information plus exacte de manière moins coûteuse.

Comment minimiser le danger pour les occupants et les intervenants ?
Par quel moyen l'abonné peut-il participer activement à cette mission ?
Comment aider l'équipe de secours à optimiser son parcours sur le lieu du sinistre ?

Les procédures traditionnelles sont basées sur la tenue à jour de documents papiers. Lentes et peu flexibles, elles suivent difficilement les changements rapides des organisations et des bâtiments. Il est donc aujourd'hui nécessaire de proposer aux abonnés des outils de communication dynamiques.

Le **Service d'Incendie et de Secours** a confié à **Work Flow Systems WFS SA** la réalisation et le déploiement de ce nouveau service.

A distance, avec un simple navigateur Internet, la construction et la mise à jour du dossier deviennent extrêmement simples et rapides. Le dialogue direct et permanent permet de disposer d'une connaissance détaillée du lieu d'intervention.

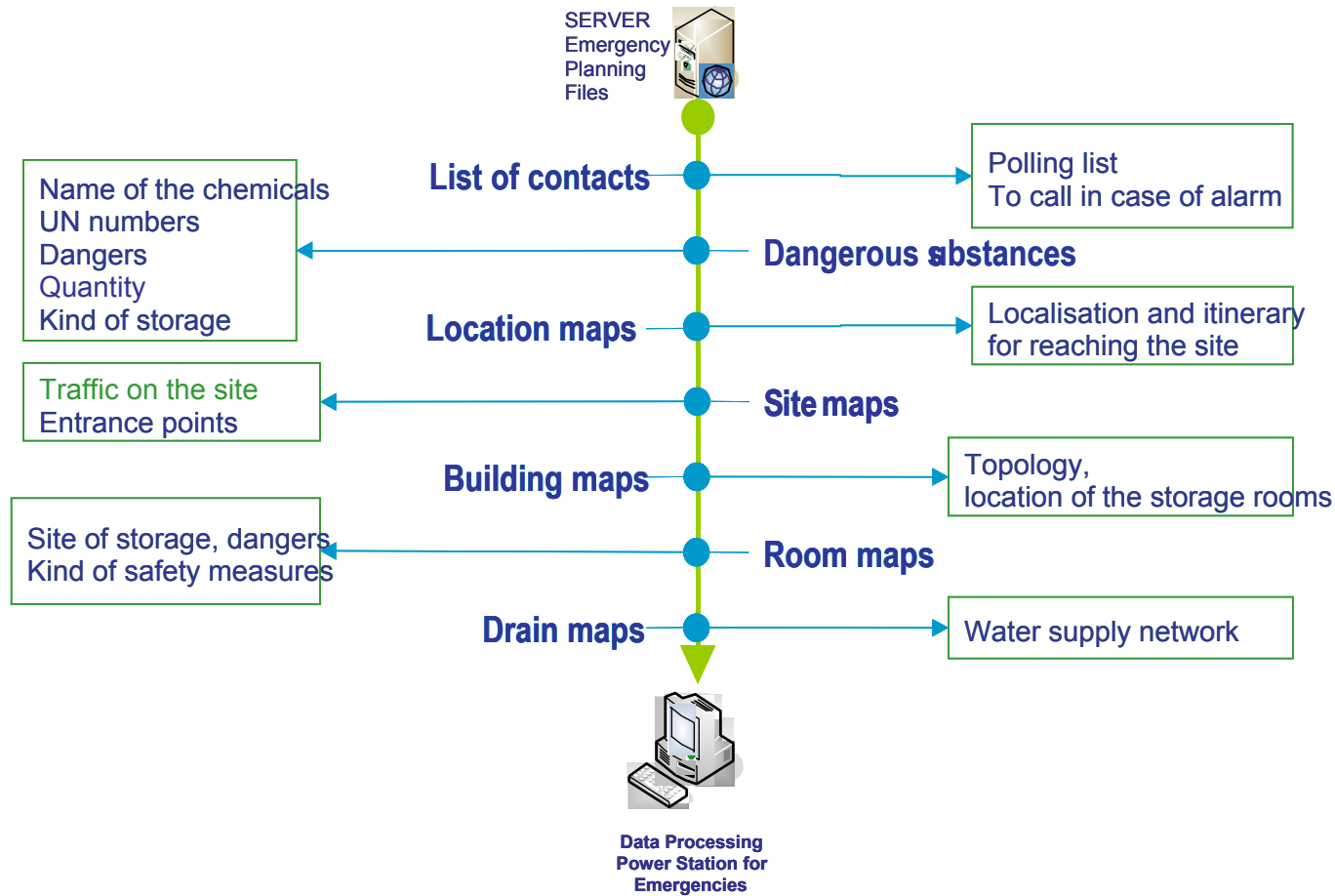
Pour de plus amples informations, vous pouvez contacter notre service commercial à l'aide de notre [assistance client](#).

© 2000-2005 Work Flow Systems WFS SA. Tous droits réservés. [Conditions d'utilisation du site.](#)

www.wfsnetwork.com Internet

3. Content of an Online emergency planning dossier

Titles, groups and their content



4. Technology and information flow among actors

Server and dispatch

SERVER Online Emergency Planning



MS Windows 2003
IIS 6.0 + SSL 128 bits
MS SQL Server 2000



Access Emergency Planning

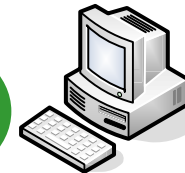
Authorities
In charge of
monitoring



The information is checked through a secure Internet connection.

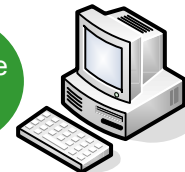
Access Emergency Planning

Entreprise
1



The information is furnished and followed using a secure INTERNET connection.

Entreprise
n



Access Emergency planning

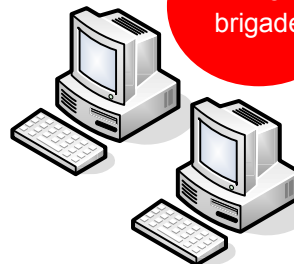
The files are made up and updated The information is furnished and followed using a secure INTERNET connection.

Technical
office



Access Emergency Planning

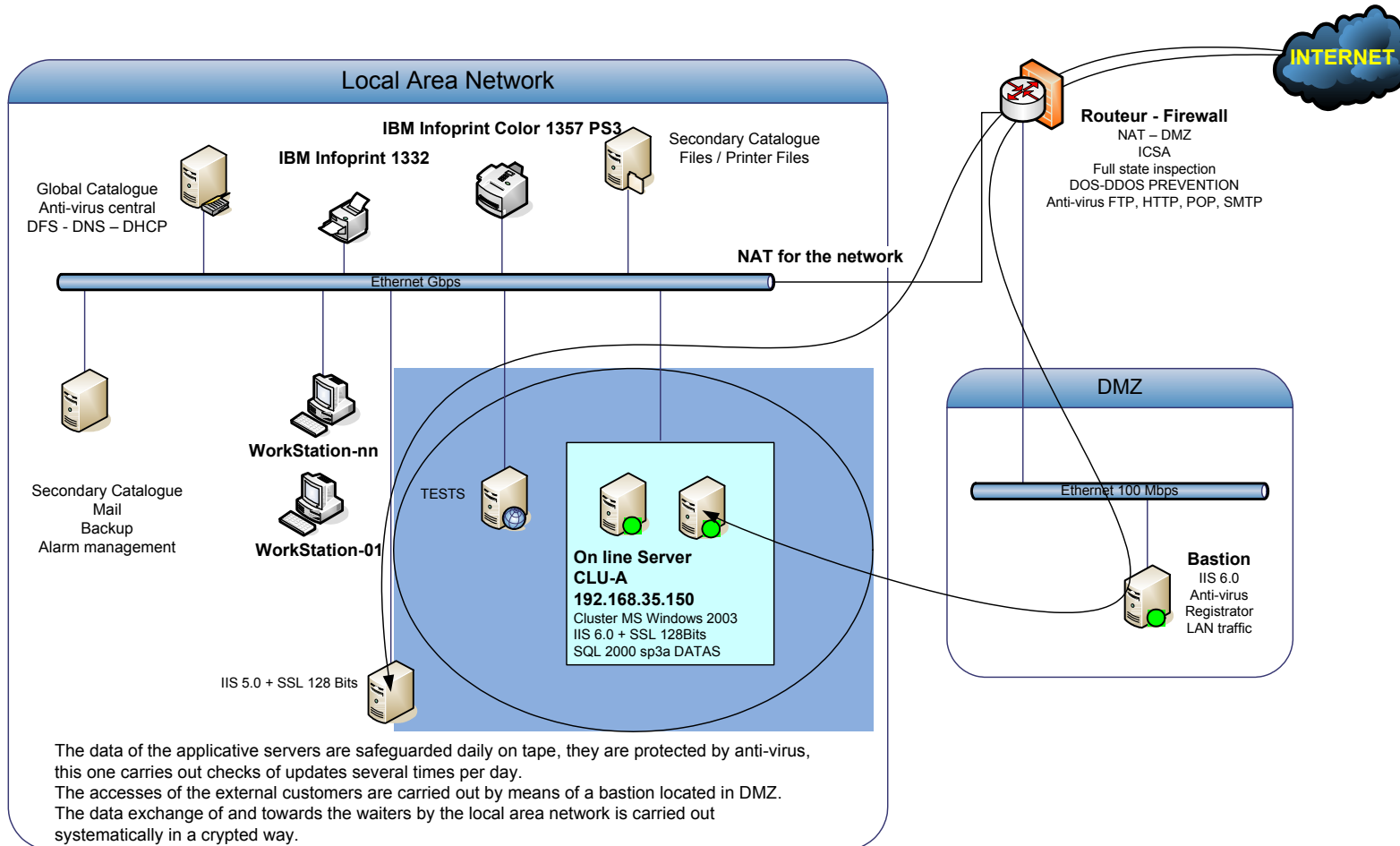
Fire
brigade



The information is furnished and followed using a secure INTERNET connection.

5. The security on INTERNET

Firewall, DMZ, cluster and SGBD



6. Some functionalities, examples

Make up of the polling list

Objective :

To encourage enterprises to have an updated list of contacts that can be automatically called in case of emergency by the fire brigade central

Motivation :

- Management board
- Chemical specialists
- Safety officers

Are also competent interlocutors for the implementation and follow up of the dossier toward the authorities.

The screenshot shows a web browser window titled "https://www.wfsnetwork.com - Dossier d'Intervention - Microsoft Internet Explorer". The page content includes:

- Header: "Abonné : [IDEA] IDEAL CHIMIC" and "Dossier d'Intervention Gestion de l'environnement".
- User information: "Utilisateur : Pierre Berthier".
- Navigation: "Gestion de l'environnement" and "Liste des utilisateurs > Modifier l'utilisateur".
- User details form:
 - Fonction: Chargé de la sécurité
 - Nom: Stalder (WFS SA)
 - Prénom: Delphine
 - Tél. prof. (direct):
 - Tél. privé:
 - Tél. mobile:
 - E-Mail: dstalder@workflowsys.com
 - Mailling list:
 - Annuaire:
 - Signature:
 - Installateur:
 - Type d'accès: Utilisateur
 - ID-Utilisateur: DELPHINE.STALDER
 - Mot de passe: [masked]
 - Compte actif:
- Buttons: "Liste des utilisateurs" and "Modifier l'utilisateur".
- Footer: "© 2000-2005 Work Flow Systems WFS SA. Tous droits réservés. Dossier d'Intervention 2.0" and "Office Cantonal de l'Inspection et des Relations du Travail OCIRT".

6. Some functionalities, examples

Make up of the list of dangerous substances

Objective :

To encourage enterprises to update the list of substances stored at sites.

Motivation :

The rescue forces need to know the possible dangers in order to enhance their effectiveness in case of emergencies.

The screenshot displays a web application interface for managing dangerous substances. The main window shows a list of substances with columns for 'N° de dossier', 'Niveau', 'Substances', and 'Quantites'. A detailed view window is open for 'Acide sulfurique >51%', showing various fields and hazard symbols.

N° de dossier	Niveau	Substances	Quantites	
247022-001	R.d.C.	Chlorure de méthylène	100	X
	R.d.C.	Acide sulfurique >51%	50	X
	R.d.C.	Acide phosphorique	900	X
	R.d.C.	trichloréthylène	100	X
	R.d.C.	Alcool éthylique	450	X
	R.d.C.	Acétate d'éthyle	100	X
	R.d.C.	Méthyléthylcétone	25	X
	R.d.C.	Acide nitrique	600	X
	R.d.C.	Essence de térébenthine	25	X
	R.d.C.	Hydroxide de sodium (>5 %)	400	X

Détail de la substance dangereuse
Acide sulfurique >51%

Type de local : Atelier
Numéro du local : 80
Nom du local : Zone de production
Quantité : 50
Unité : kg
Seuil OPAM : 1030
N° ONU : 80
N° danger : 80
Code ODS :
Nature l.s.g. : Liquide
Niveau d'évacuation : Non nécessaire
Forme de stockage : Bidons
Danger(s) associé(s) : Corrosif, Danger pour faune aquatique
symbole OPAM :
Symbole SIS :
Symbole Euro :
Note :
Fermer

6. Some functionalities, examples

Map search

Objective :

To enable the rescue team and plant owner to have at any time maps available helping to locate the dangers and to take the appropriate protective measures

Motivation :

The rescue teams need to have:

- an access map to the site
- a general map of the site
- floor plans of the buildings with chemicals
- plans of the drains in order to avoid contamination of water and sewage systems

The screenshot shows a web browser window titled "Dossier d'Intervention - Microsoft Internet Explorer". The page content includes a navigation menu with "Plans & documents", "Actions & suivi", "Inventaires", "Pages dossier", and "Rapports". The "Plans & documents" section is active, showing a search form with the following fields:

- Document**: Auer (dropdown), Nom du document (text input).
- Index**: N° de dossier (dropdown), Niveau (dropdown), Type de document (dropdown), Document (dropdown), Localisation (text input), Installateur (dropdown).
- Publication**: Date de parution (calendar), Date de suppression (calendar), Destinataire (dropdown).
- Signature(s)**: Signature 1 (dropdown), Signature 2 (dropdown).

A "Rechercher" button is located at the bottom right of the form. The footer contains copyright information: "© 2000-2005 Work Flow Systems WFS SA. Tous droits réservés. Dossier d'intervention 2.0" and the OCIRT logo.

6. Some functionalities, examples

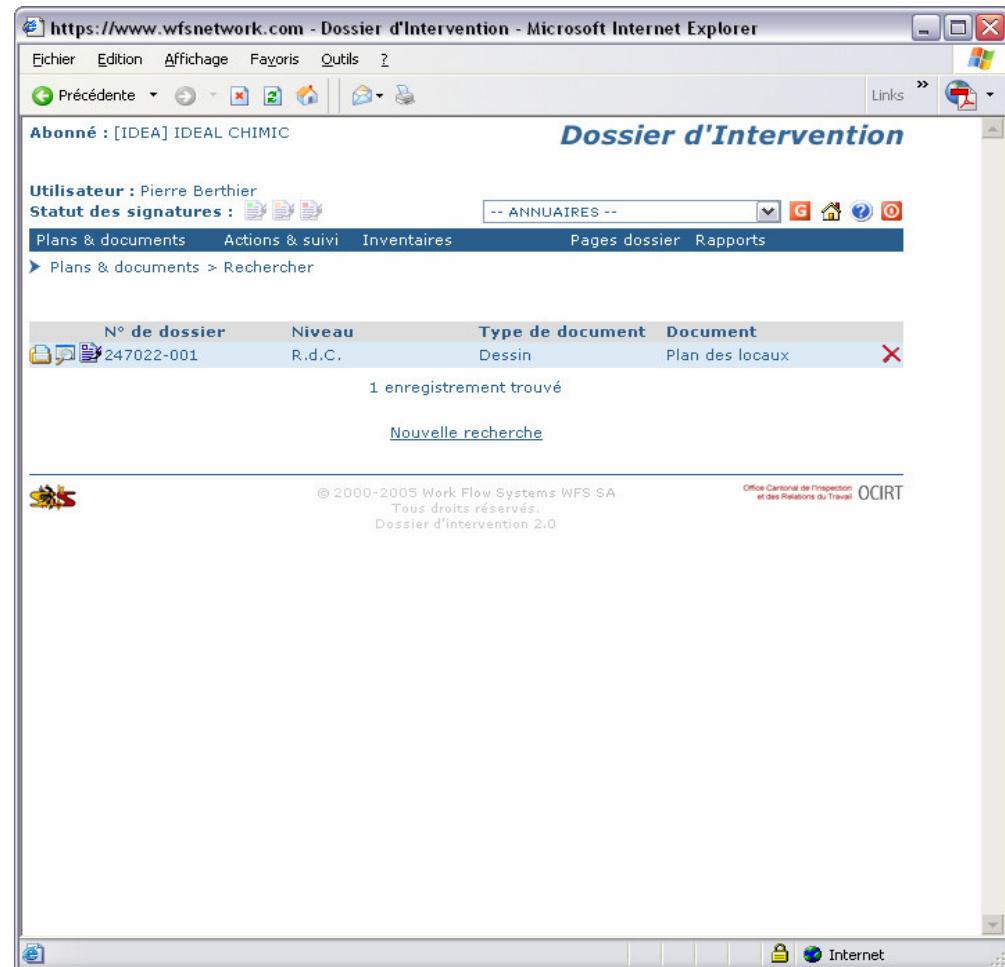
Map search: results

Display :

A click on the icon displays the desired map.

Traceability :

Each map comes with details conforming to high standards of quality control (date, time,..) in order to guarantee the validity of the information. Each map can be validated by electronic signatures of the persons responsible.



6. Some functionalities, examples

List of all the maps in the dossier

Signature

Traceability

Display

N° de dossier	Niveau	Type de document	Document	
247022-001	R.d.C.	Dessin	Plan source	X
247022-001	R.d.C.	Bureautique	Plan OPAM	X
247022-001	R.d.C.	Bureautique	Plan OPAM	X
247022-001	R.d.C.	Dessin	Plan de base	X
247022-001	R.d.C.	Dessin	Plan de canalisation	X
247022-001	R.d.C.	Bureautique	Plan OPAM	X
247022-001	R.d.C.	Dessin	Plan d'intervention	X
247022-001	R.d.C.	Dessin	Plan des locaux	X
247022-001	R.d.C. Situation	Dessin	Plan du site	X
247022-001	Situation	Photo	Plan de situation	X

17 enregistrements trouvés

© 2000-2005 Work Flow Systems WFS SA
Tous droits réservés,
Dossier d'intervention 2.0

Office Cantonal de l'Inspection
et des Relations du Travail OCIRT

6. Some functionalities, examples

Publishing a map in the dossier

Function :

To offer downloads of maps of different origins and formats from the server.

Motivation :

Homogenize information sources for the constitution of maps.

Reduce the costs of map production.

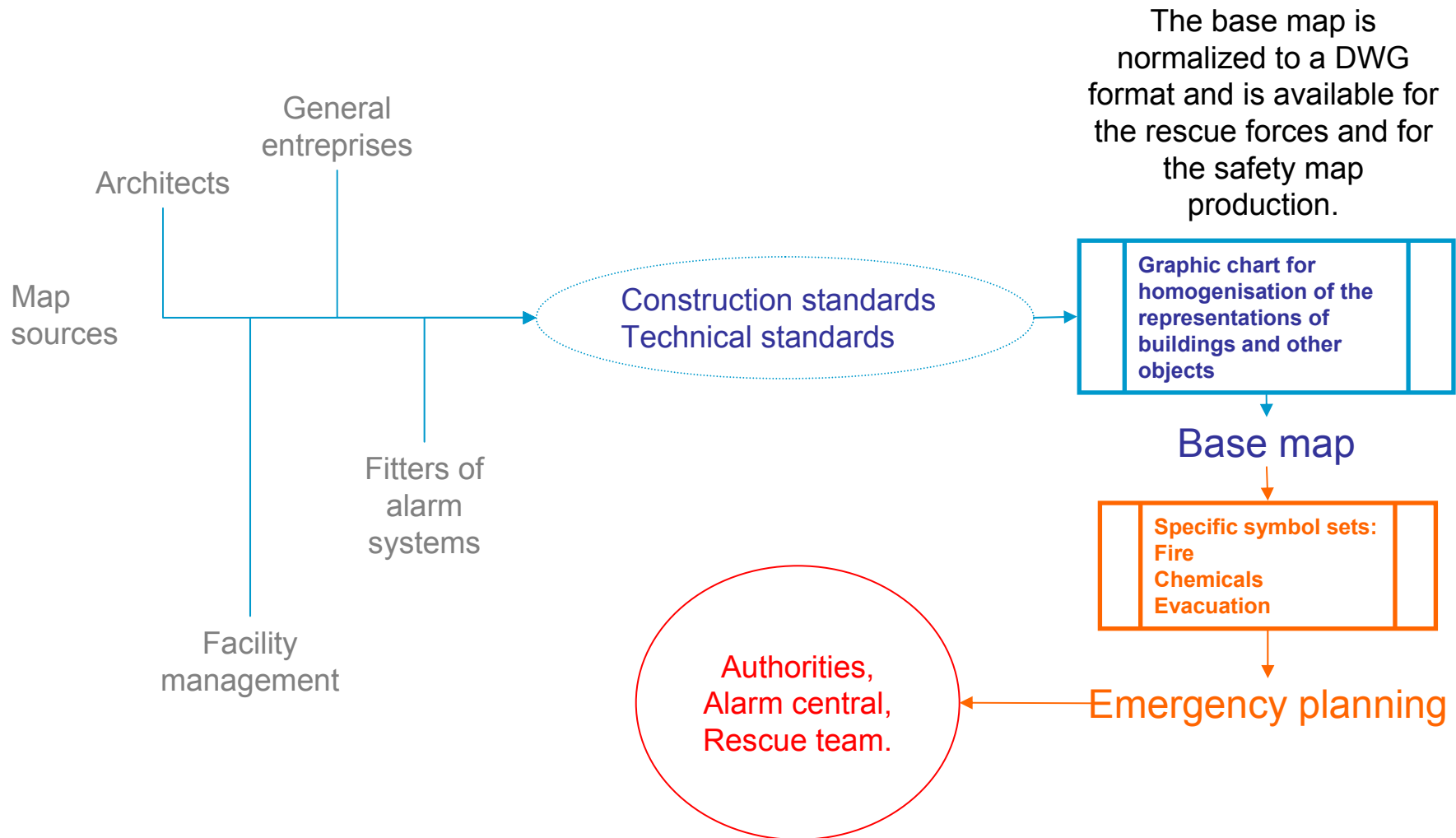
Accelerate the constitution and update of the dossier.

The screenshot shows a web browser window titled "https://www.wfsnetwork.com - Dossier d'Intervention - Microsoft Internet Explorer". The page content includes:

- Header: "Abonné : [IDEA] IDEAL CHIMIC" and "Dossier d'Intervention".
- User information: "Utilisateur : Pierre Berthier" and "Statut des signatures :".
- Navigation menu: "Plans & documents", "Actions & suivi", "Inventaires", "Pages dossier", "Rapports".
- Breadcrumb: "Plans & documents > Publier".
- Form sections:
 - Document**: "Document à publier" (text field), "Renommer en" (text field), "Auteur" (dropdown menu).
 - Index**: "N° de dossier" (dropdown), "Niveau" (dropdown), "Type de document" (dropdown), "Document" (dropdown), "Localisation" (text field), "Installateur" (dropdown).
 - Publication**: "Date de parution" (15/06/2005), "Date de suppr." (15/06/2006), "Destinataire" (dropdown).
 - Signature(s)**: "Signature 1" (dropdown), "Signature 2" (dropdown), "Note" (text area).
- Buttons: "Parcourir..." and "Publier".

5. Some functionalities, examples

Map make up

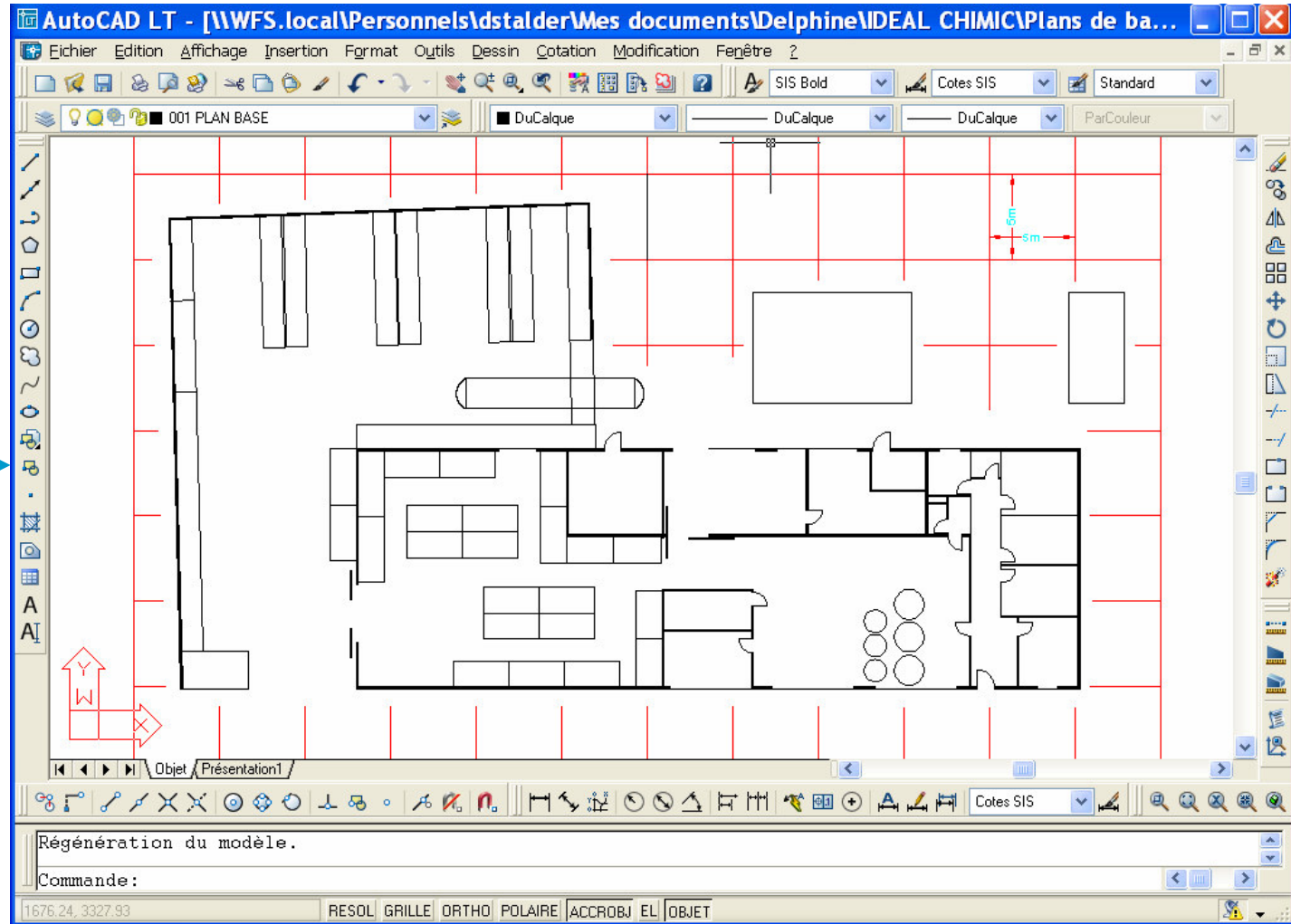


6. Some functionalities, examples

Map base: Format DWG

Drawing a basic plan according to a graphic chart defined by the authorities and the fire brigade.

Export toward the instrument for the production of pages of the dossier.



6. Some functionalities, examples

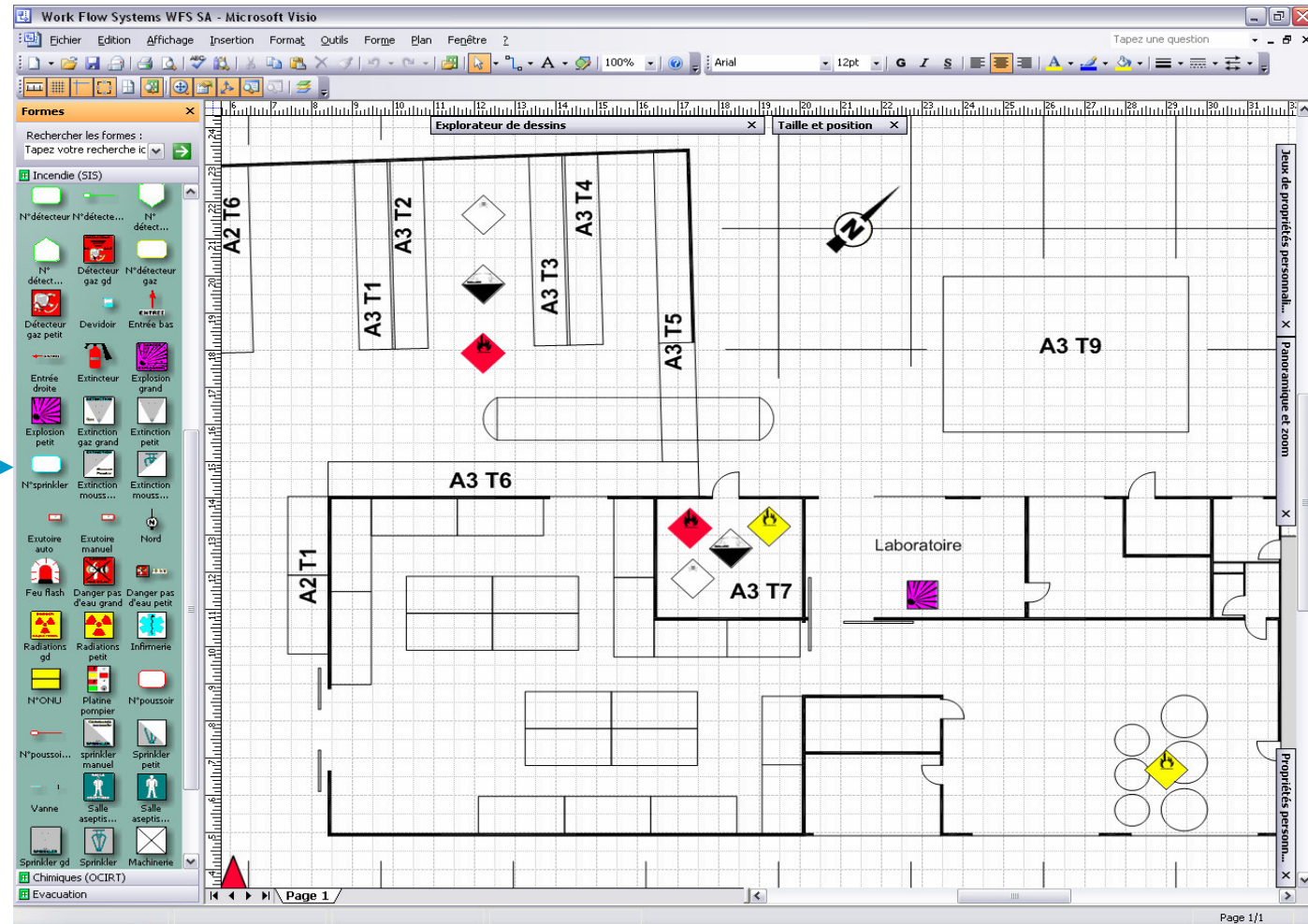
Map page of the dossier: Format PNG

Recovery of the map base AutoCAD LT.

Insertion of icons for:

- Fire
- Chemicals
- Evacuation

A map page can be released by a moving the pictograms around on the map base.



7. Conclusions

This system will also promote teamwork among state agencies, the fire brigade and industry by sharing verified data.

This system will be part of the scientific support team following spills involving hazardous materials.

This online service enhances the preparedness of the Canton of Geneva for civil and environmental emergencies procedures.

This tool is also evolutionary and allows for the addition of new “layers” (for example radioactive materials).

It also offers possibilities for further development such as use for analysis and cartographic representations of environmental safety.