



Documill Discovery  
*Search - Find - Take Action*

# IGD-TP Knowledge Management Portal Proposal

Documill Oy

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# Background for the Service Proposal

- Documill is a Finnish independent software vendor focusing on developing search solutions
- The idea of the IGD-TP knowledge portal service came from the experiences Documill gained from the Posiva Final Disposal Knowledge Management Portal project
- Service was demonstrated in Prague event last year
- The service demo can be found from:  
<http://safedisposal.documill.com>

# Service overview

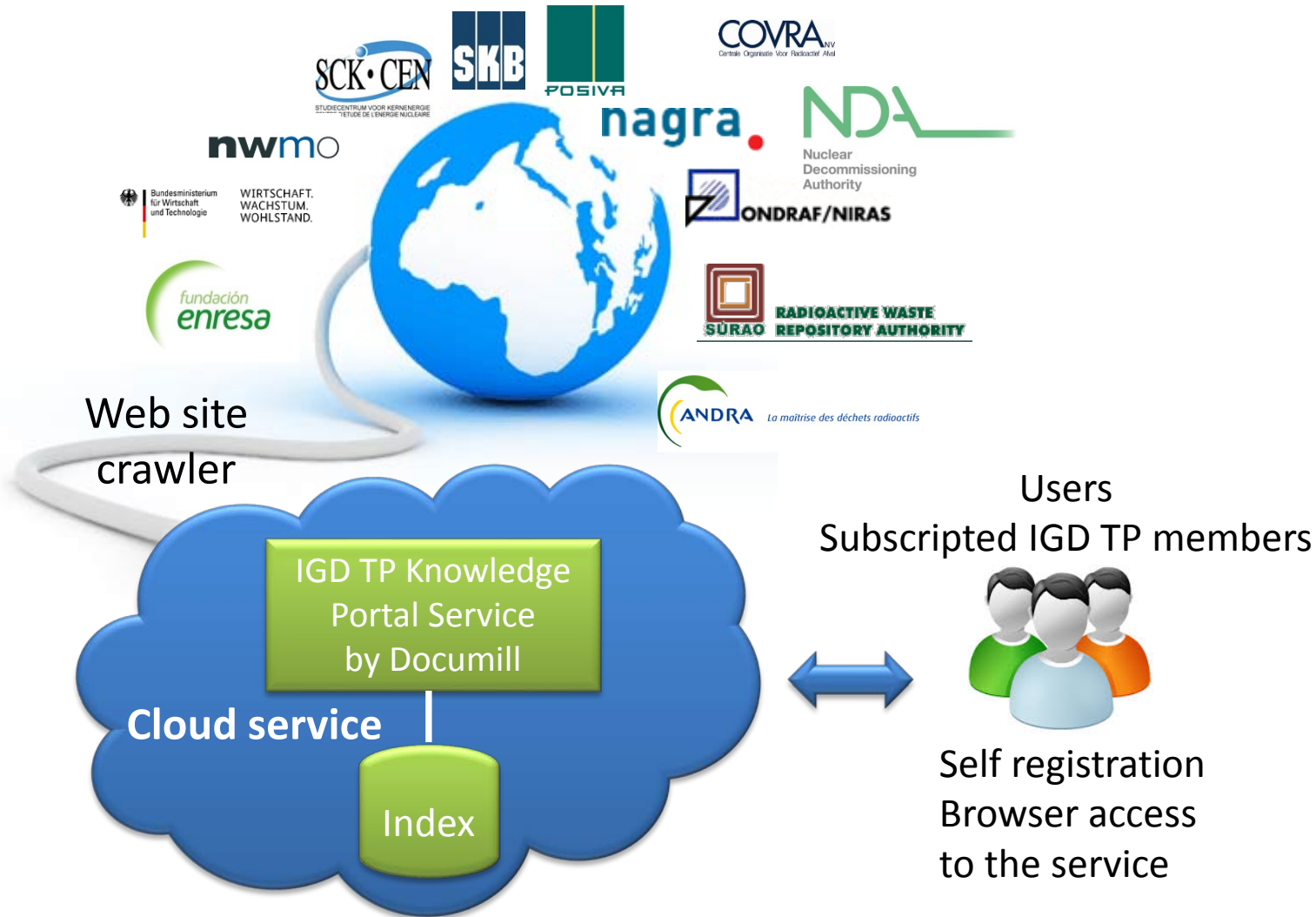
One place to access IGD-TP members publicly available reports that are crawled and indexed from IGD-TP members web sites into one centralized search service

The screenshot displays the Documill search interface. The search bar contains the term "canister" and shows 8 results. The interface is divided into several sections:

- Search result (8):** Shows the search term and the number of results.
- Filter results:** Includes filters for Modified, Order By, Category, File Type, Language (French (8), English (6)), and Organization (www.posiva.fi (543), www.skb.se (255), www.nda.gov.uk (176), www.nwmo.ca (161), www.enresa.es (83), www.andra.fr (46), www.ondraf.be (14)).
- Search results:** Two results are visible, both titled "Rapport de gestion Situation actuelle de la gest Préface...". The first result is from "NIROND 2008-02" and has 93 matches. The second result is also from "NIROND 2008-02" and has 103 matches.
- Preview window:** A preview window is open over the first result, showing a document page. The document text includes:
  - chargement.
  - Les dimensions des deux modules sont les mêmes:
    - longueur = 18 m,
    - largeur = 12,2 m.
  - Leur hauteur est de 20 m, hall de chargement inclus.
  - Le module 1 contient 252 puits. Dans chaque puits, six canisters de 60 l peuvent trouver place, ce qui donne une capacité totale de 1 512 canisters pour le module 1. Le module 1 est pratiquement saturé puisque 1 501 canisters de 60 litres y sont entreposés. Le module 2 contient 20 puits pouvant accueillir 6 canisters de 150 l et 160 puits pouvant accueillir 6 canisters de 150 l, soit un total de 1 080 canisters, 834 canisters de 150 litres y ont trouvé place à l'heure actuelle.
  - Après refroidissement, les canisters de déchets vitrifiés dans l'installation PAMELA ont été transférés vers le bâtiment 129, sur wagonnet, à l'intérieur d'un blindage de transport temporaire. Le wagonnet pénètre dans le sas d'entrée du bâtiment 129. Un pont roulant, à commande manuelle, d'une capacité de levage de 40 t, dépose sur le blindage de transport, une hotte blindée équipée d'un système de levage. Le grappin mécanique de ce système de levage attrape le canister et le tire dans la hotte. Le pont roulant lève ensuite la hotte blindée contenant le canister et la dépose dans le hall de chargement situé au-dessus des modules d'entreposage. L'épaisse dalle de sol du hall de chargement est pourvue d'ouvertures donnant accès aux puits des modules d'entreposage. Ces ouvertures sont obturées par des bouchons en béton armés destinés à assurer la protection radiologique des opérateurs circulant dans le hall de chargement. Avant d'être le bouchon du puits à desservir, on prend soin de mettre en place une vanne de stockage mobile. La hotte blindée est placée au-dessus de cette vanne mobile. Après ouverture de cette dernière, le canister est descendu dans le puits jusqu'à sa position de stockage. Lorsque l'opération de remplissage est terminée, le bouchon est remis en place. Tous ces blindages fixes et mobiles garantissent, en toutes circonstances, la protection du personnel d'exploitation et de l'environnement contre les radiations émises par les déchets manufacturés ou entreposés.
  - Bien que la chaleur produite par les déchets vitrifiés dans PAMELA soit relativement faible, l'installation est pourvue d'un système de ventilation forcée permettant de refroidir les canisters. L'air évacué des modules d'entreposage passe par un filtre avant d'être rejeté dans une cheminée de 5 m située successivement du bâtiment.
- Image:** A photograph showing the interior of a loading hall with a red and white checkered floor and a large crane structure.
- Caption:** "Figure 26. Le hall de chargement du bâtiment 129"
- Text below image:** "Sur la photo ci-dessus, les bouchons fermant les puits sont visibles sur le sol du hall de chargement. La hotte de transfert se trouve à l'arrière-plan."
- Page number:** 93

# Service Architecture

## Public WEB sites



# New way to search content form reports

salinity groundwater copper

First result

Filter results:

- Modified
- Order By

**Stress corrosion cracking of copper canisters**

12.05.2011

<http://www.skb.se/upload/publications/pdf/TR-10-04.pdf>

...Stress corrosion cracking of copper canisters... sealing materials. Deep Fennoscandian Shield tend to be saline, with chloride concentrations... Stockholm Phone +46 8 459 84 00 Technical R... Stress corrosion cracking of copper canisters... Stress corrosion cracking of copper canisters Integrity Corrosion Consulting Limited...

Find and consume matching pages with highlights directly from browser

Filter 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

**Ecology and living conditions of groundwater fauna**

<http://www.skb.se/upload/publications/pdf/TR-08-06.pdf>

...Ecology and living conditions of groundwater fauna... Ecology and living conditions of groundwater fauna Barbara Thulin, Geo Innova AB Hans Jürgen Hahn... eller TR. Ecology and living conditions of groundwater fauna Barbara Thulin, Geo Innova AB... Keywords: Biosphere, Ecosystems, Geo-Chemistry, Biota, Groundwater Stygofauna, Hydrogeology. This...

"copper canister"

1 Introduction

The report R-05-73 summarizes the development of Friction Stir Welding (FSW) at the Canister Laboratory under the period 2003 to middle of 2005 (SKB 2005). The report describes the results from 19 welds with 2 cm thick copper performed in the laboratory. Several important technical advances have been made during that period. A large test programme (according to RMD3-programme 2004 SKB 2004) has been performed in order to test the welding system and performance in regard to reliability, quality, weldability and the properties of the weld material. One open question was the corrosion resistance of the weld materials, especially whether residuals from the FSW tool and formed copper oxides in the weld material might influence the corrosion properties negatively.

2 Experimental programme

A total of 9 samples produced from friction stir welding and one reference sample produced by electron beam welding type was used to perform comparative electrochemical corrosion measurements.

List of samples used (values in brackets describe the location in degrees along the weld):

FSW1 25.1 (15 34)	FSW1 25.2 (18 17)	FSW1 25.3 (17 10)
FSW1 25.4 (14 16)	FSW1 25.2 (162 188)	FSW1 25.3 (188 211)
FSW1 38.1 (5 27)	FSW1 38.2 (117 339)	FSW1 38.3 (139 1)
EDW1000118-40		

2.1 Electrochemical measurements

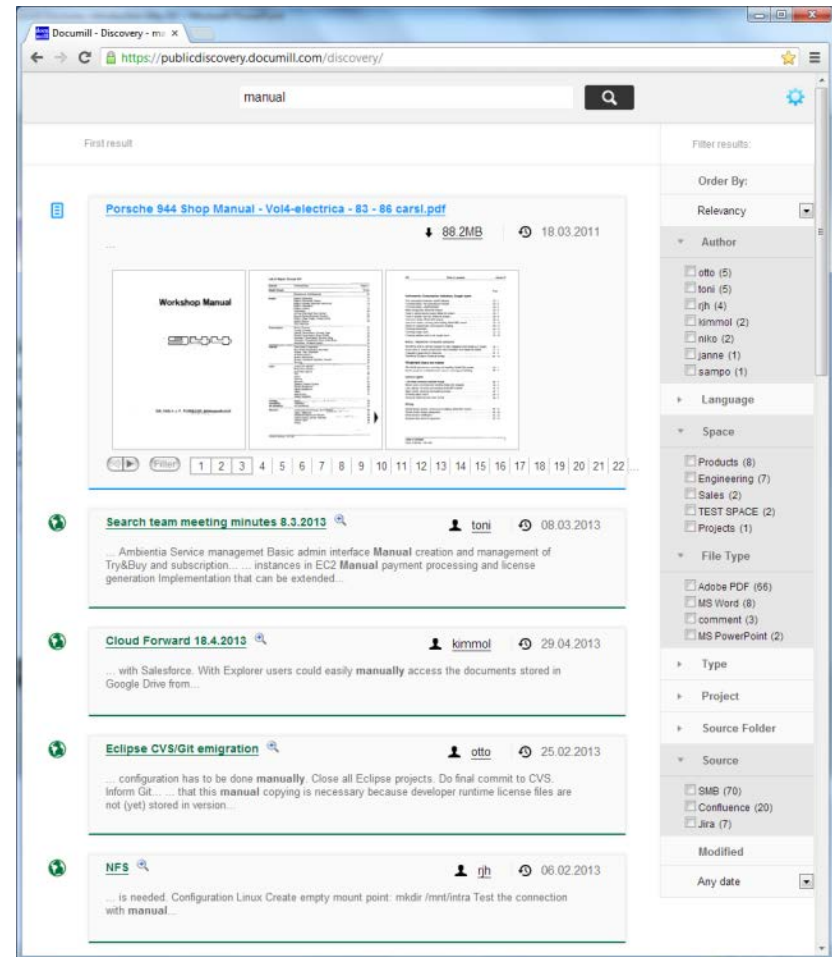
Electrochemical measurements were performed with a Solution 1268 Electrochemical Interface and a Radiometer Copenhagen P/P20 Potentiostat/Calibrator. The samples were degreased using ethanol and acetone but otherwise used as received.

The test solutions were prepared from analytical grade chemicals in deionized water (reverse osmosis, conductivity 0.025 µS/cm<sup>3</sup>).

Figure 2-1. Schematic drawing of samples cut from canister.

# Powerful filters to narrow down results

- Filters are a fast way to narrow down results when user knows details about the searched item like author, file type or publishing organization
- Filters are automatically created based on each result set





# Reuse relevant content

← → ↻ <https://safedisposal.documill.com/discovery/> ☆ 🗨️ ☰

2425 results  🔍 ⚙️

Search result (2425) Filter results:

➤

Show matches | 1 2 3 5 13 17 18

Web <http://www.skb.se/upload/publications/pdf/TR-07-07.pdf> ☆

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**RESIDUAL STRESS INVESTIGATION OF COPPER PLATE AND CANISTER EB-WELDS** ↓ 1.8MB

RESIDUAL STRESS INVESTIGATION OF COPPER PLATE AND CANISTER EB-WELDS Work ing Repor t 2009 -21 Residual Stress Investigation of Copper Plate and Canister EB-Welds Complementary Results March 2009 Working Reports Labora to ry o f Eng ineer ing Mate ri als Working Report 2009 -21 Residual Stress Investigation of Copper Plate and Canister EB-Welds

➤

HIDE PICKS (3)  PDF

➤

# Service Summary

- One universal content discovery tool for IGD-TP members publicly available content and reports.
- Access to service requires contract between Documill and IGD-TP member organisation
- Service is accessed via user id and password.
- There will be a link to the service in IGD-TP web site
- Service fee is 1500 €/year
- POSIVA is the first organisation that has signed the contract
- Contract templates are available from:

[terho.laakso@documill.com](mailto:terho.laakso@documill.com)