

Where GIS and Workflow meet: CBYD

Call before you dig: Information exchange for underground networks

In many countries there are legal arrangements to prevent damage to underground networks as a result of digging activities. The general concept of these arrangements, legal or voluntary, is a procedure where an excavator will request information to all companies managing underground assets in the area where he is planning to dig.

Within the network company these requests will follow a specific workflow to decide on the importance and risks of the request and on basis of that the action that need to be taken to minimize risk. The available time to supply the required information to the excavator is generally limited. Therefore internal procedures need to be timely and controlled. Preferably Call Before You Dig (CBYD) requests need to be handled automatically. Only in critical cases manual processing of the requests is required.

The Call Before You Dig process is one of the typical examples of business process where GIS and Workflow Management Systems can clearly optimize business processes. The Spatial Eye CBYD-system automates the whole CBYD process with the option of manual control in critical situations.

Support of network management companies

Spatial Eye supports the process of information supply for CBYD requests for administrative and geographic information, as well as documents. The Spatial Eye CBYD-application supports:

- ▶ **Process flow control and configuration through the CBYD server**
- ▶ **Monitoring and control of requests**
- ▶ **Creation of reports, maps, queries and analysis**
- ▶ **Archiving and damage data handling**
- ▶ **Information supply to parties involved**

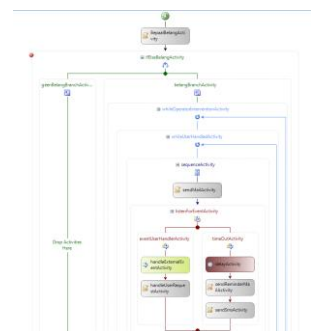


networks, locations

Flexible and configurable

Organizations change. IT-systems change. And the Legal frameworks change All good reasons to choose for a flexible and configurable system. That is what the through Spatial Eye CBYD-application offers through:

- ▶ **Direct access to data sources**
Manage your data at the source. Create answers on digging requests of up to date data. No unnecessary duplication of data. Less mistakes. No complex data management structures. Use data from all data sources supported by Spatial Workshop.
- ▶ **Message data structures independent of the source data models**
CBYD messages may have structures different from the data structures in the data sources. The Spatial Workshop Business Layer allows full configuration of messages independent of the source data structures.
- ▶ **Workflow**
Windows Workflow Foundation supports the Spatial Eye CBYD process. Requests and resulting messages are routed through your organization. Automatic or manual handling can be configured. Escalation procedures can be set up to guarantee timely response.
- ▶ **Integration with Microsoft Outlook**
Simple message handling through Microsoft Outlook integration

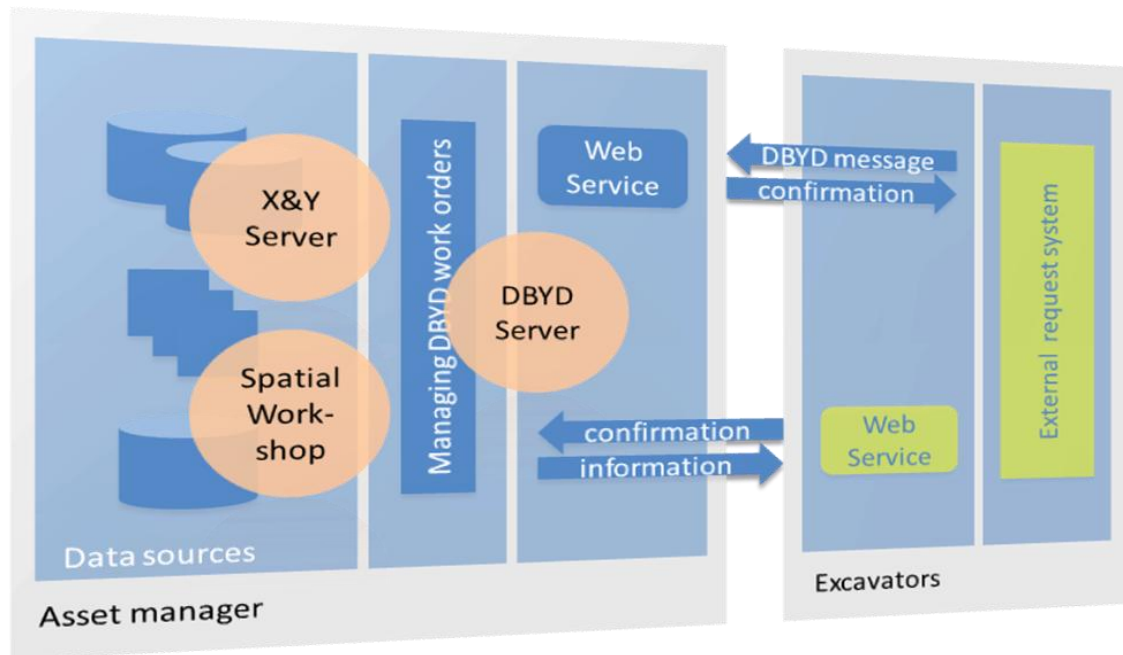


processes, messages, workflow



reports, analysis

- ▶ **Rich functionality process handling and archiving**
Visual control, analysis and reporting.
- ▶ **Standard Microsoft technology and integration**
Possible integration on basis of Service Oriented concept with i.e. SharePoint
- ▶ **Standard IT and fail-over support**



The components of the Spatial Eye CBYD-application

- ▶ **Klic Server**
 - The server controlling the workflow,
 - Control over manual or automatic handling of requests,
 - Archiving of all request related data in a standard RDBMS.
- ▶ **X&Y Server**
 - The X&Y server collects spatial and administrative data from multiple sources.
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- ▶ **Spatial Workshop**
 - Control, analysis and reporting of outstanding or handled requests,
 - Configuration of the CBYD workflow.
- ▶ **The CBYD Outlook or Spatial Workshop PlugIn**
 - To handle CBYD requests within Microsoft Outlook or within Spatial Workshop.

Spatial Eye simplifies your world

The Spatial Eye CBYD-application is easy configurable to the needs of your organization to be able to handle Call Before You Dig requests in the most efficient and secure way.

Spatial Eye BV
Venusstraat 17
4105 JH Culemborg
The Netherlands

+31 655 738363
+31 345 611829
www.spatial-eye.com