

## SVEA - Spitzbergen



### SVEA

Country: Norway  
Location: Spitzbergen  
Industry: Mining  
Employees: 250

Readers: 2  
Tags: 300

Website: [www.snsk.no](http://www.snsk.no)



### SUMMARY

WATCHERMINE became the preferred choice for the "SVEA" mine in Spitzbergen. The installation is a result of a letter of intention signed early 2004. Highly explosive methane gases inside the mine required Ex-approved equipment to be used.

### THE CUSTOMER

"The mine in the cold north", Svea North is the future of mining company "Store Norske". The mine is located in the "Sentralfelt" and is the largest coal deposit discovered on Spitzbergen. A total of 72 million tons of coal is estimated to be commercially available in the Sentralfelt, from which 32 million tons can be made available through Svea North.

December 2001 the Norwegian government decided to establish permanent mining operations in Svea North, and the mine have an estimated lifetime of 25 years with today's mining activities.

### THE SPITZBERGEN MINING SCHEME

The Norwegian Ministry of Trade and Industry (Næringsog handelsdepartementet) is responsible for the laws and regulations regarding mining activities on Spitzbergen. At the discussion of the Svalbard Treaty (Svalbard=Spitzbergen) the coal resources were of great importance. It was included in the 1920 treaty that Norway were to establish a Mining scheme for Spitzbergen.

The scheme was established in 1925 and includes all the conditions regarding mining rights, obligation to work in order to maintain mining rights, how to run the mines and more.

### CUSTOMER IMPACT/BENEFITS

Providing the right people with the right information. Real time display of all workers, mobile objects and visitors with the current zone they are in, are displayed on several operating stations.

LED Displays located outside and inside the SVEA mine entrance display the name of each worker entering the mine, as well as each worker exiting the mine. Although the system will provide alarms on tag low-battery levels, the displays are used as an extra factor of safety for workers.

Map backgrounds and a map edit tool, allows the system operators to customize their layout by adding/editing zones, counters, labels etc.

An access control scheduler allowing alarms to be sent out when unauthorized workers reside in an undesired area. A "work alone" feature, where workers that are not part of a team can be given a deadline as of when they must have exited the mine. In the case of an accident or other factors not allowing the worker to exit the mine within his deadline, an alarm will be triggered.



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All system alarm can be customized, allowing for real time adjustment of alarm information layout, alarm alert type and content. SVEA's IT technicians can change alarm content and layout through the TRAILBLAZER administration interface, and system operators can choose the alarm alert sound of their liking from the WATCHMINE user interface.

Total system control is provided to SVEA's IT Technicians through the TRAILBLAZER middleware administration interface. Services can be monitored, stopped and started, connected hardware can be configured directly from the user middleware and system fine-tuning can be performed at runtime.

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WATCHMINE Software

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