

IT security concepts Reference Portfolio



BRODINGER IT security
Bahnhofstraße 9
4843 Ampflwang
Austria

phone: + 43 (0) 7675 20121
fax: + 43 (0) 7675 20122
email: office@brodinger.at
www.brodinger.eu

BRZ Federal Computing Centre of Austria

Aerosol extinguishing system for an enclosed space of 500 m³

The Federal Computing Centre (BRZ) is the IT service provider and market-leading e-government partner of the Austrian federal administration.

In 2015 Brodinger IT security designed and built an aerosol extinguishing system for this client.

Due to the large volume of the room in combination with little space, the aerosol solution convinced our customer, because this system as a turnkey solution is the optimal solution for its specific needs. This extinguishing system is a nonpressured system and works effectively with low space requirements. In case of release, the costs of restarting this system are very low.

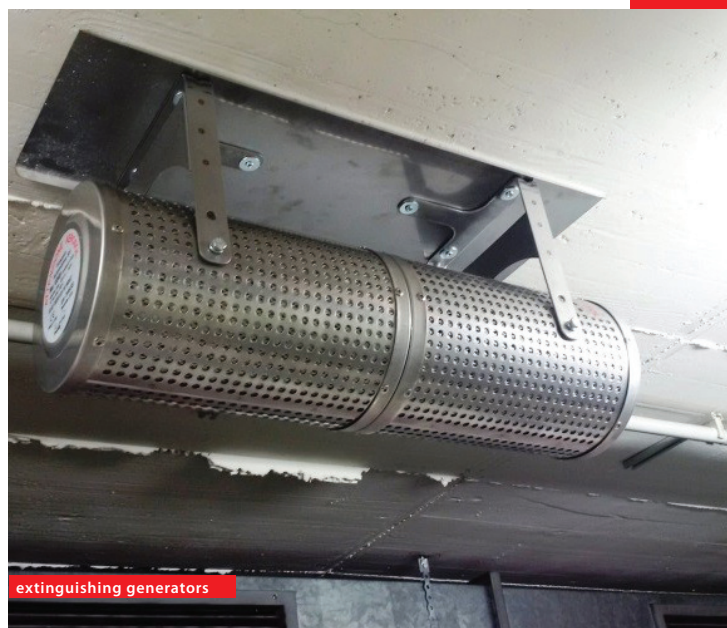
Further advantages of aerosol are:

- non-toxicity for humans and environment
- aerosol is non conductive and not corrosive, so electrical systems will not be damaged because of aerosol in case of release

Service description:

- design and implementation planning
- aerosol extinguishing system
- central fire alarm system
- specific alarm management
- dokumentation material and training of the employees who are in charge
- 5 years guarantee of the construction
- aerosol generators with 15 years time life guarantee

Customer location: Vienna, Austria



KKSecurity - Kenya Kazi Services Ltd.

IT security cabinets as turnkey solution

Kenya Kazi Services is the biggest security service provider in East and Central Africa with approximately 24.000 employees. The company headquarter, where all the data comes together, is located in Nairobi. The IT had to be adjusted to the new requirements of physical IT security.

Special challenges such as bad building substance, difficult climate conditions and unstable power supply had to be considered.

So Brodinger IT Security developed an ALL-IN-ONE system as a turn key solution. This system contents a fire protection, a high performance UPS system and a climate control system with a powerful airconditioning. The alarm management system ensures safety during current operation.

In cooperation with our customer, we reorganised the structured network cabling inside the entire IT area.

Service description:

- design and implementation planning
- 2 IT server protection cabinets
- 2 green IT climate control systems with emergency operating features
- 19" aerosol fire extinguishing system for 2 racks
- alarm management system
- documentation material and training of the employees who are in charge
- 3 years guarantee

Customer location: Nairobi, Kenya



KK Security training school



server protection cabinet with 2 efficient split airconditioning units

WFL Millturn Technologies GmbH & Co. KG

IT safety container with fire prevention by reducing oxygen

WFL Millturn Technologies presents the royal league of multifunctional turning-boring-milling centres.

The IT structure has grown in the course of the years and had to be restructured including newest standards of physical IT security.

Due to a lack of space Brodinger IT security designed an IT security container as turnkey solution. Further advantages such as flexible site selection and a fast installation convinced our client.

Now the IT of the entire WFL Group is located in this safety container. To ensure the optimal fire protection, we installed an oxygen reduction system to avoid fire. The oxygen share is kept to a fixed level by the controlled introduction of nitrogen. A fire cannot break out in this atmosphere.

Service description:

- design and implementation planning
- construction of a fire protection container according to our instructions
- Green-IT climate control system
- fire prevention system with oxygen reduction
- smoke aspiration system for early fire detection
- 64 port alarm system
- Green-IT energy monitoring
- documentation material and training of the employees who are in charge

Customer location: Linz, Austria



container outside



oxygen reduction and green IT server rack system

List Holding GmbH

Aerosol extinguishing system in 3 rooms

List, an Austrian high-tech factory, is a successful and innovative family company in its third generation. List is setting new standards in cabin outfittings of jets.

In 2013 Brodinger IT security installed an aerosol extinguishing system.

The advantages:

Almost every room is suitable to take the technique of an aerosol extinguishing system and it is easy to retrofit the aerosol technology in existing IT rooms too.

Aerosol is non conductive and not corrosive, so electrical systems will not be damaged because of aerosol in case of release. Aerosol is not toxic.

The automatical aerosol extinguishing system had been fitted in 2 server rooms and inside the electronic compartment. We installed an early fire detection including smoke aspiration system in every room as additional protection.

Service description:

- design and implementation planning
- aerosol extinguishing system in 3 rooms
40 m³, 45 m³ und 57 m³
- alarm management for 8 participants
- early fire detection including laser based light source
- documentation material and training of the employees

Customer location: Edlitz Thomasberg, Austria



entrance of one server room



aerosol extinguishing unit with smoke aspiration

NINZ S.p.A firedoors

IT safety cell as freestanding construction

Ninz S.p.A. is Italy's leading producer of fire doors with a 70% market share.

We were proud to get the order from NINZ to build an IT safety cell of 19 m² including fire protection and tested functional integrity (1000°C / 100 minutes).

We designed and built this IT safety cell as a free-standing construction equipped with additional fire protection, UPS system and antistatic double floor. This IT security cell contains the entire server infrastructure of the company

Service description:

- design and implementation planning
- 19 m² IT safety cell with antistatic double floor
- redundant climate control
- early fire detection system
- aerosol extinguishing system
- room monitoring and access control system including scanner
- central fire alarm system
- 15 years warranty on the safety cell
- documentation and training of the employees who are in charge

Customer location: Ala, Italy



Noerpel

IT security cabinets at 6 locations

The owner managed traditional company was founded in 1881. It is one of the leading logistics service providers in Southern Germany. With 750 employees, the company generated revenues of 145 Mio. €.

In the years 2010 and 2011, Noerpel took over several competitors. So it was necessary to build a uniform IT security infrastructure.

The standardised solution of Brodinger IT security was the most suitable for the individual branch offices.

Until now we could implement it to six different locations in Bavaria.

Service description:

- design and implementation planning
- IT security cabinets IP54
- control concepts for the cabinets
- 19" UPS system
- 19" fire extinguishing systems for cabinets
- early fire detection system for cabinets
- room surveillance
- alerting and monitoring system for all important parameters



double Rack



IT security cabinet / 19" gas extinguishing system



IT-Security Cabinet 4 kW

Athesia

IT security cell with full equipment of physical IT security components

The Athesia publishing house is the largest and longest established publisher in the South Tyrol area.

The history of Athesia publishing house and the closely associated „Dolomites“ is the mirror image of the history of Tyrol, especially since the beginning of the free press in Europe.

Brodinger IT security installed a turnkey data center with 55 m² in an existing office building. This data center houses all mission-critical data and applications for the printing and publishing house.

Service description:

- design and implementation planning
- IT security cell as a room-in-room system with 55 m²
- 16 kVA UPS with shutdown management
- FM200 gas extinguishing system
- fire detection by a sensitive smoke detection system
- cold and hot aisle containment with 17 racks
- access management for all technology areas
- alerting and monitoring system of all important parameters

Customer location: Bolzano, Italy



Ivoclar FL

IT security cell as a room-in-room system full equipped as turnkey solution with green IT climate system

Ivoclar Vivadent AG is a global active company in dental industry with a comprehensive range of products and systems for dentists and dental technicians.

All server systems and related infrastructure had to be updated to the new state of the art.

Brodinger IT security got the responsibility to realise this interesting tasks for the head-quarter in Schaan (Liechtenstein) and the production site in Merano (Italy).

Service description:

- design and implementation planning
- IT security cell as a 50 m² room-in-room system
- 80 kVA UPS with shutdown management
- FM200 gas extinguishing system
- fire detection by a sensitive smoke detection system
- redundant 50kW climate control system with free cooling
- energy distribution with personal protection
- emergency power supply by diesel generator 110 kVA
- dokumentation material and training of the employees who are in charge



80kVA UPS system and entrance



Free cooling air system

Bosch Rexroth

IT security cells at 2 locations

Rexroth
Bosch Group

Bosch Rexroth is worldwide one of the leading specialists in drive and control technologies. Under the brand name of Rexroth you find solutions for driving, controlling and moving.

Because of new international security guidelines of the company, the most important server room locations in Austria had to be adapted to the latest state of the art.

During normal operation, Brodinger IT security refurbished 2 security cells with all necessary physical IT security components.

Service description:

- design and implementation planning
- IT security cell as a room-in-room system with 24 m²
- UPS with shutdown management
- fire detection by a sensitive smoke detection system
- various air conditioning systems
- access management for the server room and office building
- alerting and monitoring system for all important parameters



IT security blanket cells



Electrical distribution and raised floor air conditioning

Customer Locations: Linz, Pasching, Austria

Degudent

IT security cell with climate control system

DeguDent

A Dentsply International Company

In the segment of system solutions and product concepts for dental laboratories, Degudent is one of the market leader company.

New international security guidelines of the company and lack of space in the old server room finally led to the decision to build a new security cell inside the warehouse.

Brodinger IT security built up a room-in-room solution with climate control system, designed for 3 server racks.

Service description:

- design and implementation planning
- IT-security cells as room-in-room system
- redundant IT server room air conditioning system
- UPS system
- alerting and monitoring system for all important parameters



Customer location: Vienna, Austria



Volvo Austria GmbH / Trucks

IT security cells at 3 locations

Volvo is one of the largest manufacturer worldwide of heavy trucks. Furthermore Volvo creates transportation solutions for customers all over the world.

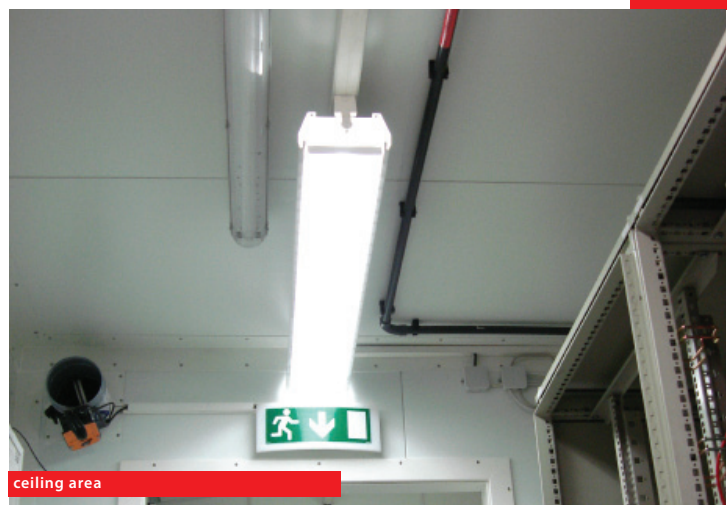
Because of a flue gas loss in a server room in one of their branches and international security guidelines of the company, the most important server room locations in Austria had to be refurbished.

Brodinger IT security was entrusted with the update of 3 security cells in 3 locations. The project had to be realised during normal operation, this was a particular challenge for us.

Service description:

- design and implementation planning
- IT-security cells as room-in-room systems
- server room with double-antistatic floor
- fire detection by a sensitive smoke detection system
- alerting and monitoring system for all important parameters

**Customer Locations: Schwechat, Baden,
Korneuburg, Austria**



ceiling area



IT security cell

HARIBO

IT security cell with full equipment



Haribo – kids and grown-ups love it so...

Brodinger IT security and Haribo were happy to establish an IT security cell as a turnkey solution in Linz!

In the basement, as part of a building expansion, a new server room with 45 m² was built on current state of the art. The installation of the IT security cell was held parallel to the construction of the new office building. The server room housed all mission-critical data and applications for Austria and Eastern Europe.

Service description:

- design and implementation planning
- IT security cell as a room-in-room system with 24 m²
- 60 kVA modular UPS with shutdown management
- FM200 gas extinguishing system
- fire detection by a sensitive smoke detection system
- redundant 40 kW air conditioning system
- UPS system
- alerting and monitoring system for all important parameters





ÖSTERREICHISCHES
ROTES KREUZ
STEIERMARK

Austrian Red Cross

IT security rooms on 240 m²

Aus Liebe zum Menschen.

The National Federation of Red Cross set up a new central control room in Styria, Graz.

The new data center controls the entire IT and the management of the radio communication. We integrated all the important safety components inside this security room.

Service description:

- design and implementation planning
- IT-security rooms F90 in two sections totaling 240 m²
- 90 kVA modular UPS with shutdown management
- fire prevention by reducing oxygen content
- aspirating smoke detector system
- 120 kW air conditioning system
- UPS system
- 28.000 m data cabling inside the control room
- 32 server racks fully populated
- alerting and monitoring system for all important parameters



300kW generators with auxiliary fuel tank



server racks



fire prevention / air conditioning

Customer location: Graz, Austria

one cellular provider

IT infrastructure across Europe

For several years, we helped this client to build an emerging and ever-growing mobile phone network (GSM, GPRS). This included a redundant dark fiber glass pipe arch through Austria and southern Germany.

We built parts of seven data centers and many other BSC sites throughout Austria and southern Germany.

Service description:

- design and implementation planning
- 2 MB wiring
- ADC terminal boards
- copper and fiber cabling
- power cables with electrical distribution
- server rack configurations
- pipe work in buildings for electrical and fiber optic cables

Customer Location: Germany, Austria



SDH section



GSM / UMTS jumperings

SAG Aluminium AG

IT security cell with air conditioning and extinguishing system

In 2003 the Salzburger Aluminium AG commissioned Brodinger IT security to build their new security cell.

In October 2004 the SAG was awarded to one of the „Austria's Leading Companies“ in Salzburg.

Service description:

- design and implementation planning
- IT security cell as a room-in-room system with 18 m²
- FM200 gas extinguishing system
- fire detection by a sensitive smoke detection system
- access control system for this security cell and the whole building
- UPS system
- 12 kW air conditioning system



Extinguishing systems signals



IT security cell

Customer Location: Lend, Austria

Excerpt from our IT security concepts

customer references

