

Introduction

The school has WLAN available to all students so that they can work on their private tables and devices.

Structural Organisation of the System

The Klax school has high-performance Internet access, which is secured by a firewall. This firewall provides various network segments in the school. One for the Klax WLAN and LAN, as well as a separate student WLAN. Both networks are available from all access points. Access to this is differentiated. Both networks are logically separated from each other so that they cannot be mixed.

The connection to the student WLAN is protected by a code that is published everywhere in the school building.

The firewall has a child and youth protection content filter that protects against hate, pornography, violence, drugs and similar content. Virus protection is also guaranteed.

Security Requirements in Student WLAN

Broadcast SSID: Student WLAN

The technical settings for the protection of minors are based on the legal requirements of the Commission for the Protection of Minors in the Media and the State Treaty on the Protection of Minors in the Media. In addition, network services and websites are blocked, which can disrupt pedagogical operations.

Block settings for filter categories:

1. Violence/Hate/Racism	Blocked
2. Intimate Apparel/Swimsuit	Blocked
3. Nudism	Blocked
4. Pornography	Blocked
5. Weapons	Blocked
6. Adult/Mature Content	Blocked
7. Cult/Occult	Blocked
8. Drugs/Illegal Drugs	Blocked
9. Illegal Skills/Questionable Skills	Blocked
10. Sex Education	Blocked
11. Gambling	Blocked
12. Alcohol/Tobacco	Blocked
13. Chat/Instant Messaging (IM)	Blocked
14. Arts/Entertainment	Free
15. Business and Economy	Free
16. Abortion/Advocacy Groups	Blocked
17. Education	Free
18. Cultural Institutions	Free
19. Online Banking	Blocked
20. Online Brokerage and Trading	Blocked

21. Games	Blocked
22. Government	Free
23. Military	Blocked
24. Political/Advocacy Groups	Free
25. Health	Free
26. Information Technology/Computers	Free
27. Hacking/Proxy Avoidance Systems	Blocked
28. Search Engines and Portals	Free
29. E-Mail	Free
30. Web Communications	Free
31. Job Search	Free
32. News and Media	Free
33. Personals and Dating	Blocked
34. Usenet News Groups	Blocked
35. Reference	Blocked
36. Religion	Blocked
37. Shopping	Blocked
38. Internet Auctions	Blocked
39. Real Estate	Free
40. Society and Lifestyle	Free
41. Restaurants and Dining	Free
42. Sports/Recreation	Free
43. Travel	Free
44. Vehicles	Free
45. Humor/Jokes	Blocked
46. Multimedia	Blocked
47. Freeware/Software Downloads	Blocked
48. Pay to Surf Sites	Blocked
49. Kid Friendly	Free
50. Advertisement	Blocked
51. Web Hosting	Blocked
52. Other	Free
53. Internet Watch Foundation CAIC	Blocked
54. Social Networking	Free
55. Malware	Blocked
56. Radicalization and Extremism	Blocked
57. Not Rated	Free

The description of the filter performance can be found here: https://www.sonicwall.com/resources/?wpv_view_count=17686-TCPID17689&wpv-wpcf-content-type=&wpv-wpcf-resource-product-series=&wpv_post_search=Filter&wpv_filter_submit=Search&wpv-wpcf-resource-language=en

The category descriptions can be found here: <https://www.sonicwall.com/products/firewalls/security-services/content-filtering-services/content-filtering-categories>

Safesearch: The Youth Protection Measures (Safe Search) are automatically activated for Google, Youtube as well as Bing.

Data Transmission: Data traffic is only possible on ports 80 (http) and 8443 (https), so that misuse by other web services is excluded. Applications such as tunnel programs or the like are also blocked.

Rights Management

Access to Administrator Software

A specific account is created to access the administration software. From this it is possible to block individual devices on the network.

Access to Firewall

Access to the firewall is only possible for IT support staff.

Web Logs

Based on the current legal situation and GDPR, no log files of the students' surfing history are saved.

System Limitations

The student WLAN is completely separated from the Klax WLAN. Data can only be exchanged between students and teachers via a portal, such as Schulweb. It is not possible to project the laptop contents onto the projectors and televisions in the classrooms from the student WLAN.