

## Test scenario (plan of tests conducted during the contracting procedure)

1. The proposed solutions will undergo tests as an integral part of the contracting procedure related to ***"Lease of Hardware with Software, necessary for providing security services for OSE"***.
2. Within a time limit to be specified by the Awarding Entity (at least within 7 days after the distribution of test invitations), the Contractor will deliver the test environment compliant with the System requirements (RFT Exhibit 3 – DCS) and configured in accordance with the Awarding Entity's guidelines as specified below or in the test invitation for the Contractor.
3. Testing methods: For the tests, the Awarding Entity will prepare several hundreds of URLs of pages featuring specific content, according to the content catalogue defined in point 4. The pages will be divided into two groups: domains which the Awarding Entity wants to block (black URLs) and domains which the Awarding Entity wants to let through (white URLs). There will be at least 10 white and 10 black URLs in every content category. White and Black URLs will be chosen among the publicly-accessible websites available in the Internet, in Polish and English. The Contractor will prepare its solutions to support the *explicit proxy* mode. The Awarding Entity will configure the workstation by entering the IP address and port (indicated by the Contractor) in *HTTP proxy* field in the Firefox browser setting, and adding a SSL interception certificate used by the solution to the trusted certificates in Firefox. Next, the Awarding Entity will open all domains in Firefox and check whether the system behaves as expected (white URLs pass through and black URLs are blocked). The Awarding Entity is aware that the proposed system will not be able to correctly process 100% of white and black domains due to the approximation mechanisms used. Therefore, every category has a success factor (SF) assigned to it in order to define the level (%) of performance equivalent to full compliance with the given requirement.
4. The Awarding Entity will verify the delivered solution for content filtering quality based on the following categories:

Category	Details	Success Factor
alcohol and tobacco	pages and materials promoting alcohol and tobacco, its sale and use, for example beer, wine and strong alcoholic beverages;	0.9
anorexia and other eating disorders	pages and materials promoting unhealthy and improper lifestyle involving eating disorders;	0.7
weapons and explosives	pages and materials promoting weapons, their manufacturing, use and customisation, for example pistols, rifles and explosive materials;	0.95

online chat	pages or software which enable online chatting, voice communication, video conferences;	0.6
adults only	pages showing materials intended for adult audience but not classified as pornography or violence. Such pages often contain vulgar, erotic or other content not appropriate for children;	0.8
vandalism and violence	pages and materials showing content intended to promote violation of the legal order, acts of vandalism, football hooligan activity (for example, promotion of violent behaviour, etc.).	0.7
discrimination	content showing public insulting of a group or an individual for reasons of nationality, ethnicity, race, beliefs or lack of beliefs;	0.75
illegal drugs, legal boosters	websites discussing, encouraging, promoting, offering, selling, delivering or otherwise advocating the use, cultivation, production or distribution of illegal drugs and legal boosters (including non-pharmaceutical drugs, intoxicating plants, chemical solvents or other chemicals), as well as associated accessories ;	0.85
illegal software or other unlawful content	pages which illegally make available copyrighted software or materials (for example, music, films), or which provide information about the sourcing of such materials (for example, peer-to-peer technology);	0.8
online gaming	pages which grant access to online games (except for games used in education);	0.8
pornography	pages showing pornographic content, such as text, images or videos with a graphic depiction of a person or an object of explicitly sexual nature;	0.9
swearing	pages and materials showing content intended to expose words and expressions commonly recognised as indecent, obscene and vulgar;	0.7

violence	pages intended to show physical injury or other damage caused to people, animals or property, or to provide instructions how to cause such injury or damage;	0.9
dating portals	pages intended to facilitate encounters between people for matrimonial or mating purposes and information exchange for virtual/physical date arrangements intended to establish lasting or short relationship (often sexual only);	0.8
varied adults only content	pages showing adults-only content but not classified into a separate category;	0.7
self-mutilation	pages and materials promoting dangerous, unhealthy and improper lifestyle involving wilful injury of one's own body inflicted by self-aggression or depression;	0.8
online betting	pages not recorded in the official Register of Illegal Gambling Domains and where users can bet or participate in betting, lotteries or receive related information, support, instructions or training*;	0.85

NOTICE: The above content classification is stated here and in the procurement procedure ONLY for the purpose of conducting the procurement procedure – the System selected during the procedure will only enable the recognition of various types of content user security. The selection of specific categories depends on the respective school headmasters. Note that the user protection system must not limit pages related to banking & finance, healthcare and e-mail.

5. The tests will be conducted using the Awarding Entity's workstation with the Windows 10 operating system and the Firefox browser.
6. The Contractor is authorised to participate in the tests as an observer. The Awarding Entity allows not more than one Contractor's employee to be present in the testing room.
7. During the tests, the Contractor cannot modify the operation of the delivered solution or the workstation configured for the tests.
8. The Awarding Entity expects to conduct the tests for all the Contractors at the same time. If the number of the Contractors qualified for the testing stage exceeds the Awarding Entity's assumptions, the tests can be carried out in several rounds.

9. A test will involve the Awarding Entity's employee opening a web page on the workstation referred to in point 5 and noting down the result (blocked, passed) according to point 3 above. If there is an error in the page opening process, the Awarding Entity will note that it was "blocked".

10. The total score will be expressed as a percentage value, according to the following formula:

$$x = \frac{TNP}{TBWPC * SF} * 100$$

TNP – Total Number of Pages: number of black URLs blocked and white URLs passed in accordance with the Awarding Entity's expectations for the given category.

TBWPC – Total Number of Black / White Pages in Category.

SF – Success Factor defined individually (as a value from 0 to 1) for each category.

The Success Factor can lead to results (x) higher than 100%.

11. The total score will be considered successful, if the filtering score for white URLs is higher or equal to the required level of success for white URLs (95%), or if the filtering score for black URLs is higher or equal to the required level of success for black URLs (85%).

12. The filtering score will be calculated according to the following formula:

$$y = \frac{x_a + x_b + \dots + x_t}{NTC}$$

$x_a - x_t$  score obtained in point 10

NTC Number of Tested Categories.

13. Test results of the respective Contractors will be presented in a table which will display the percentage of success in white and black URL testing per category.
14. The representatives of the Awarding Entity and the Contractor will sign a test results report immediately after preparing the test results table.
15. If during the testing the Awarding Entity decides that the solution being tested has failed one of the requirements specified in RFT Exhibit 3, then the Awarding Entity will be authorised to reject the tender of such Contractor.
16. If the Awarding Entity determines after the completion of the tests that no contractors received a positive total score, the Awarding Entity will lower the required percentage of success by 10% in the case of black URLs. In such case, the Awarding Entity will notify all Contractors of this fact and provide them with updated total scores re-calculated based on the above formulae.