

# TEST RESULTS

## PROJECT NETWORK MANAGEMENT SYSTEM

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**Versie 0.1**

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## Introduction

This internal report contains the tests and test results. All the tests were run twice, the second time after correcting the issues discovered in the first tests. Side notes and other notes are will not result in a failed test, but could be looked at. When a test is failed, the reason will be defined in this document.

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## Tests

| Test  | Result   |
|---|--|
| <b>Database test</b>                                      |  |
| The system has multi-database support                     | <ul style="list-style-type: none"> <li>- Tested with PostgreSQL and SQLite3</li> </ul>   |
|   | <b>Test 2</b> <ul style="list-style-type: none"> <li>- Same results</li> </ul>   |
| <b>Devices pages</b>                                      |  |
| A device can be added                                     | <ul style="list-style-type: none"> <li>- A device can be added</li> </ul>  |
|   | <b>Side note</b> <ul style="list-style-type: none"> <li>- IP address field accepts all input, even if it's not an IP address</li> <li>- Test connection button doesn't work</li> <li>- Error handling for port field needs some attention</li> </ul>                                 |
|   | <b>Test 2</b> <ul style="list-style-type: none"> <li>- Test passed</li> </ul>  |
| A device can be changed                                   | <ul style="list-style-type: none"> <li>- A device can be changed</li> </ul>  |
|   | <b>Side note</b> <ul style="list-style-type: none"> <li>- IP address field accepts all input, even if it's not an IP address</li> <li>- Test connection button doesn't work</li> <li>- Error handling for Port field needs some attention</li> </ul>                                 |
|   | <b>Test 2</b> <ul style="list-style-type: none"> <li>- Test passed</li> </ul>  |
| A device can be deleted                                   | <b>Test Failed</b> <ul style="list-style-type: none"> <li>- A device cannot be deleted from the devices page, only from ACL devices</li> </ul>   |
|   | <b>Test 2</b> <ul style="list-style-type: none"> <li>- Test passed</li> </ul>  |
| Communication between a device and the server is possible | <b>Test failed</b> <ul style="list-style-type: none"> <li>- Refresh this page button on the device manage page gives a 500 error</li> </ul>  |
|   | <b>Other notes</b> <ul style="list-style-type: none"> <li>- Communication using the terminal works</li> </ul>  |
|   | <b>Side note</b> <ul style="list-style-type: none"> <li>- Terminal window has no upper menu</li> <li>- Close connection button can be pressed infinity</li> <li>- Show running config on cisco gives more output than fits in the screen, normal terminal behaviour would</li> </ul> |

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|  | <p>allow you to scroll to the next screen. This doesn't work unless you send a space.</p> <ul style="list-style-type: none"> <li>- This same problem exists for the XML commands, the output is cut after --More-- on a cisco device</li> </ul> <p><b>Test 2</b></p> <ul style="list-style-type: none"> <li>- Test passed</li> </ul>   |
| The XML parser parses the command set for device X properly, and the commands run as they are supposed to  | <p><b>Test failed</b></p> <ul style="list-style-type: none"> <li>- The refresh button after changing something in the XML file doesn't work. The refresh button gives a page 500 error.</li> </ul> <p><b>Other notes</b></p> <ul style="list-style-type: none"> <li>- The XML file is parsed correctly and the commands run as they are supposed to.</li> </ul> <p><b>Test 2</b></p> <ul style="list-style-type: none"> <li>- Test passed</li> </ul>   |
| <b>Manage generic devices</b>  |  |
| The following can be added, changed or deleted: device type, device model, OS, OS type, device templates, device vendors, XML files, combination OS/generic device | <p><b>Test Failed</b></p> <ul style="list-style-type: none"> <li>- Empty XML file doesn't work, but doesn't give an error</li> <li>- Most fields can be left empty and added</li> <li>- Duplicate items can be added</li> <li>- Models can NOT be changed</li> <li>- Templates cannot be changed. Error: error occurred during the request, cannot change generic device</li> <li>- OS per generic device cannot be changed and displays the wrong info on the update page</li> </ul> <p><b>Other notes</b></p> <ul style="list-style-type: none"> <li>- Adding, changing and deleting works for most, unless otherwise defined</li> </ul> <p><b>Test 2</b></p> <p><b>Test failed</b></p> <ul style="list-style-type: none"> <li>- Empty XML file doesn't work but doesn't give an error</li> <li>- Most fields can be left empty and added</li> <li>- Duplicate items can be added</li> </ul> |
| <b>Device history</b>  |  |
| All the actions performed on a device by users must be visible in the history.   | <ul style="list-style-type: none"> <li>- All history is visible</li> </ul> <p><b>Side note</b></p> <ul style="list-style-type: none"> <li>- Top menu wrong</li> </ul>  |

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|  | <b>Test 3</b> <ul style="list-style-type: none"> <li>- Test passed</li> </ul> <b>Other notes</b> <ul style="list-style-type: none"> <li>- Duplicate items can be added</li> </ul>  |
| <b>ACL Groups</b>  |  |
| A device/user group can be added                         | <ul style="list-style-type: none"> <li>- Device group can be added</li> <li>- User group can be added</li> </ul>   |
|  | <b>Test 2</b> <ul style="list-style-type: none"> <li>- Test passed</li> </ul>  |
| A device/user group can be changed                       | <ul style="list-style-type: none"> <li>- Device group can be changed</li> <li>- Change in device group confirmed on other account</li> <li>- User group can be changed</li> <li>- Change in user group confirmed on other account</li> </ul> <b>Side note</b> <ul style="list-style-type: none"> <li>- When having list group rights, the ACL groups button appears but you don't have permission to access the page because of a lack of user list rights.</li> </ul> |
|  | <b>Test 2</b> <ul style="list-style-type: none"> <li>- Test passed</li> </ul>  |
| A device/user group can be deleted                       | <ul style="list-style-type: none"> <li>- Device group can be deleted</li> <li>- Rights obtained through this group are also deleted.</li> <li>- User group can be deleted</li> <li>- Rights obtained through this group are also deleted</li> </ul>  |
|  | <b>Test 2</b> <ul style="list-style-type: none"> <li>- Test passed</li> </ul>  |
| A user can be added user- and/or device-group            | <ul style="list-style-type: none"> <li>- A user can be added to a user group</li> <li>- A user can be added to a device group</li> </ul>   |
|  | <b>Test 2</b> <ul style="list-style-type: none"> <li>- Test passed</li> </ul>  |
| A user can be removed from a user- and/or device-group   | <ul style="list-style-type: none"> <li>- A user can be removed from a user group</li> <li>- A user can be removed from a device group</li> </ul>   |
|  | <b>Test 2</b> <ul style="list-style-type: none"> <li>- Test passed</li> </ul>  |
| The rights of a user- and/or device group can be changed | <ul style="list-style-type: none"> <li>- The rights of a user group can be changed</li> <li>- The rights of a device group can be changed</li> </ul>   |
|  | <b>Test 2</b> <ul style="list-style-type: none"> <li>- Test passed</li> </ul>  |
| A user can be granted access to different                | <ul style="list-style-type: none"> <li>- A user can be granted access to</li> </ul>  |

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| pages  | different pages through ACL  |
|  | <b>Test 2</b>  |
|  | <ul style="list-style-type: none"> <li>- Test passed</li> </ul>  |
| Remove user access by removing a user from a group | <ul style="list-style-type: none"> <li>- User access revoked after removal from group</li> </ul>   |
|  | <b>Test 2</b>  |
|  | <ul style="list-style-type: none"> <li>- Test passed</li> </ul>  |
| <b>ACL users</b>                                   |  |
| A user can be added                                | <b>Test Failed</b>   |
|  | <ul style="list-style-type: none"> <li>- A user can be added with ONLY a password, so no username or other info. You can then even log in as this user</li> </ul>  |
|  | <b>Other notes</b>   |
|  | <ul style="list-style-type: none"> <li>- Creating a user with all fields filled works</li> <li>- The user is active immediately after creation</li> </ul>  |
|  | <b>Test 2</b>  |
|  | <ul style="list-style-type: none"> <li>- Test passed</li> </ul>  |
| A user can be changed                              | <b>Test Failed</b>   |
|  | <ul style="list-style-type: none"> <li>- When attempting to change the password and filling in two different passwords, you are redirected to the ACL add user page.</li> </ul>  |
|  | <b>Other notes</b>   |
|  | <ul style="list-style-type: none"> <li>- A user can be changed</li> </ul>  |
|  | <b>Side note</b>   |
|  | <ul style="list-style-type: none"> <li>- You can empty all fields and update the user. Then the user has no user info. The user itself can't remove all the info.</li> <li>- Email address field accepts all formats, even if it doesn't have an @ sign</li> </ul> |
|  | <b>Test 2</b>  |
|  | <ul style="list-style-type: none"> <li>- Test passed</li> </ul>  |
| A user can be deleted                              | <ul style="list-style-type: none"> <li>- A user can be deleted</li> </ul>  |
|  | <b>Other notes</b>   |
|  | <ul style="list-style-type: none"> <li>- If the user that will be deleted is logged in to the system, the user will be kicked</li> </ul>   |
|  | <b>Test 2</b>  |
|  | <ul style="list-style-type: none"> <li>- Test passed</li> </ul>  |
| A user can be added to a user and/or device group  | <ul style="list-style-type: none"> <li>- A user can be added to a user group</li> <li>- The rights are given to the user</li> <li>- A user can be added to a device group</li> </ul>   |

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|   | <ul style="list-style-type: none"> <li>- The rights are given to the user</li> </ul>   |
|   | <b>Test 2</b> <ul style="list-style-type: none"> <li>- Test passed</li> </ul>  |
| A user can be removed from a user and/or device group | <ul style="list-style-type: none"> <li>- A user can be removed from a user group</li> <li>- The rights are taken form the user</li> <li>- A user can be removed from a device group</li> <li>- The rights are taken form a user</li> </ul> |
|   | <b>Test 2</b> <ul style="list-style-type: none"> <li>- Test passed</li> </ul>  |
| A user can be kicked from the system (forced log out) | <ul style="list-style-type: none"> <li>- The user is forced log out after kick from the system</li> </ul>  |
|   | <b>Side note</b> <ul style="list-style-type: none"> <li>- The user doesn't get a notification that it has been kicked. The user is simply logged out.</li> </ul>   |
|   | <b>Test 2</b> <ul style="list-style-type: none"> <li>- Test passed</li> </ul>  |
| All user actions are logged                           | <ul style="list-style-type: none"> <li>- All user actions are logged</li> </ul>  |
|   | <b>Test 2</b> <ul style="list-style-type: none"> <li>- Test passed</li> </ul>  |
| <b>ACL devices</b>                                    |  |
| A device can be deleted                               | <ul style="list-style-type: none"> <li>- A device can be deleted</li> </ul>  |
|   | <b>Test 2</b> <ul style="list-style-type: none"> <li>- Test passed</li> </ul>  |
| A device can be added or removed from a device group  | <ul style="list-style-type: none"> <li>- A device can be added or removed from a group</li> </ul>  |
|   | <b>Test Failed</b> <ul style="list-style-type: none"> <li>- After removing/adding from/to a group, you are redirected to ACL groups instead of ACL devices</li> </ul>  |
|   | <b>Test 2</b> <ul style="list-style-type: none"> <li>- Test passed</li> </ul>  |
| All the actions on a device are logged                | <ul style="list-style-type: none"> <li>- All actions on a device are logged</li> </ul>   |
|   | <b>Side note</b> <ul style="list-style-type: none"> <li>- The ACL devices history page has the wrong upper menu</li> </ul>   |
|   | <b>Test 2</b> <ul style="list-style-type: none"> <li>- Test passed</li> </ul>  |
| <b>Register user</b>                                  |  |
| A user can register an account (not active)           | <b>Test Failed</b> <ul style="list-style-type: none"> <li>- Empty fields give 500 error (no error handling)</li> </ul>   |
|   | <b>Other notes</b> <ul style="list-style-type: none"> <li>- Creating a user with all fields entered works fine</li> <li>- Logging in with an account that has not yet been activated doesn't work</li> </ul>                               |



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|  | <b>Test 2</b>  |
|  | - Test passed  |
| An admin can activate a registered account             | - Activation by admin user works<br>- Logging in after activation works  |
|  | <b>Test 2</b>  |
|  | - Test passed  |
| <b>User settings</b>                                   |  |
| The user password can be changed                       | - Changing password works<br>- Changing password into empty field gives nice error<br>- Changing password into 200 random characters works |
|  | <b>Side note</b>   |
|  | - It is possible to 'change' the password into the same (current) password   |
|  | <b>Test 2</b>  |
|  | - Test passed  |
| User information can be changed                        | - Empty fields not allowed<br>- Information changes work   |
|  | <b>Side note</b>   |
|  | - Email address accepts all formats, even if it's not an email address (no @ sign)   |
|  | <b>Test 2</b>  |
|  | - Test passed  |
| <b>Sign in/Sign out</b>                                |  |
| Sign in  | - Signing in works<br>- Username is capital sensitive<br>- Password is capital sensitive   |
|  | <b>Test 2</b>  |
|  | - Test passed  |
| Sign out   | - Signing out works  |
|  | <b>Test 2</b>  |
|  | - Test passed  |
| <b>User history</b>                                    |  |
| All the actions the logged in user performs are logged | - All actions are logged   |
|  | <b>Test 2</b>  |
|  | - Test passed  |