



Tailscale

Application Note - OWL User Module

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2. User Module Description

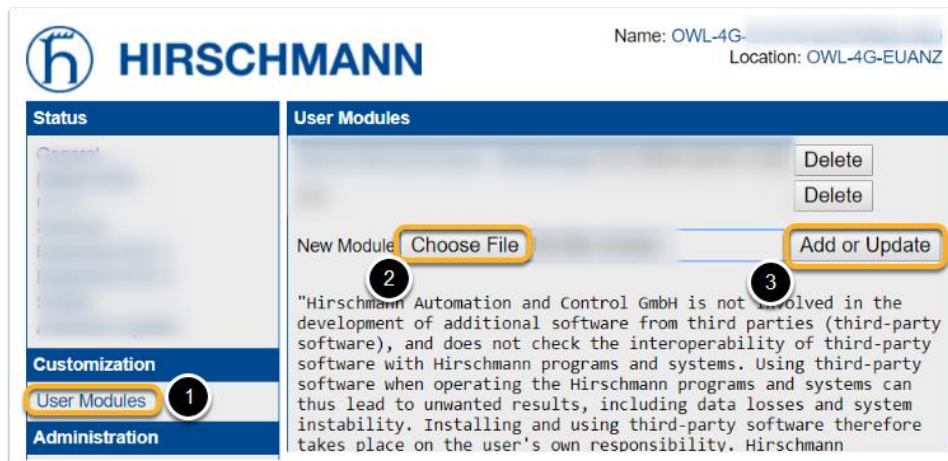
The user module “Tailscale” allows you to easily connect to the OWL router or IP devices attached to it. It provides a convenient way to run the Tailscale¹ client on the OWL router.

This module requires the Hirschmann User Module “CA Bundle”² to be installed as well! If the Tailscale module gets installed afterwards please restart the device. Please install at least CA Bundle 1.0.1

3. Installation

User modules can be uploaded in as a single file in as “.tgz” or “.tar.gz”:

1. Go to the “Customization” – “User Modules” menu
2. Choose the “.tgz” or “.tar.gz” file for your user module
3. Click “Add or Update”
4. Upload the “CA Bundle” file
5. Repeat the steps for the “Tailscale” file

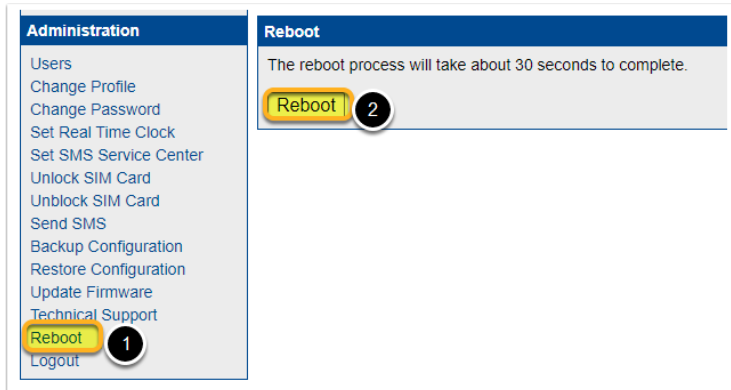


Reboot required

Reboot the product or power-cycle it after installing both modules.

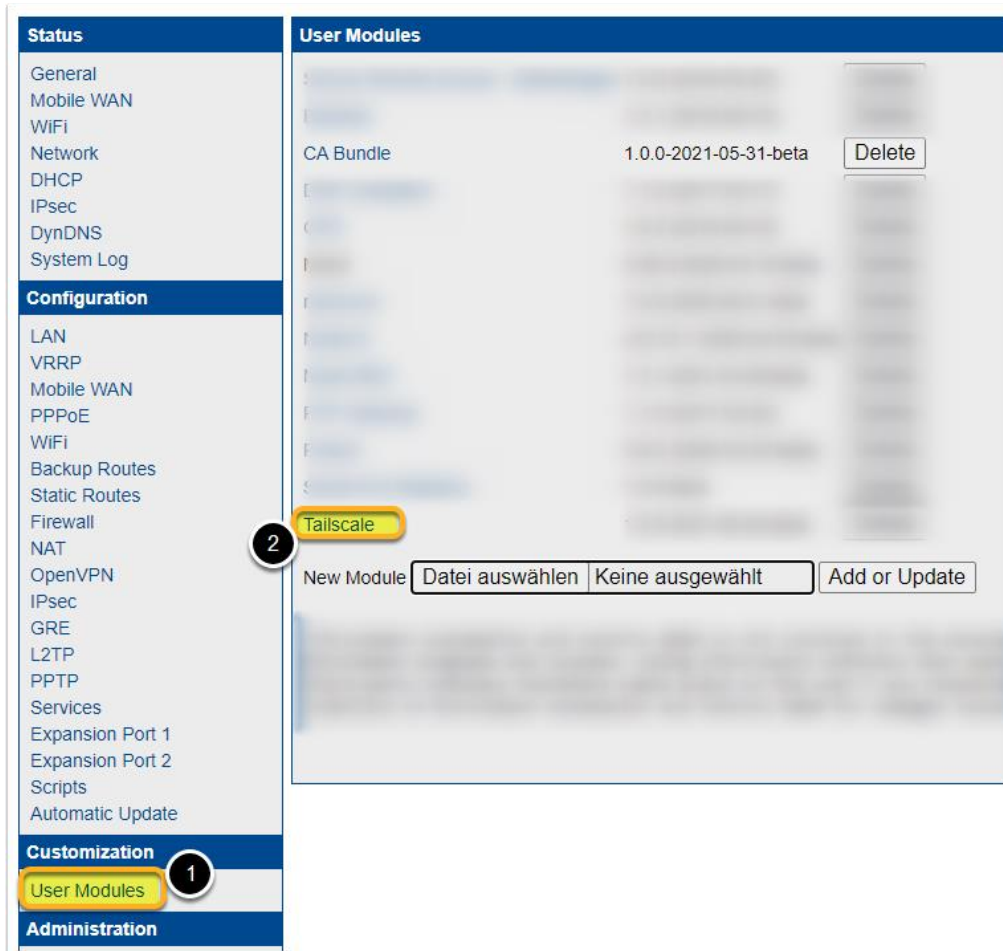
¹ <https://tailscale.com/>

² <https://hirschmann-support.belden.com/kb/articles/application-note-owl-user-module-cabundle>

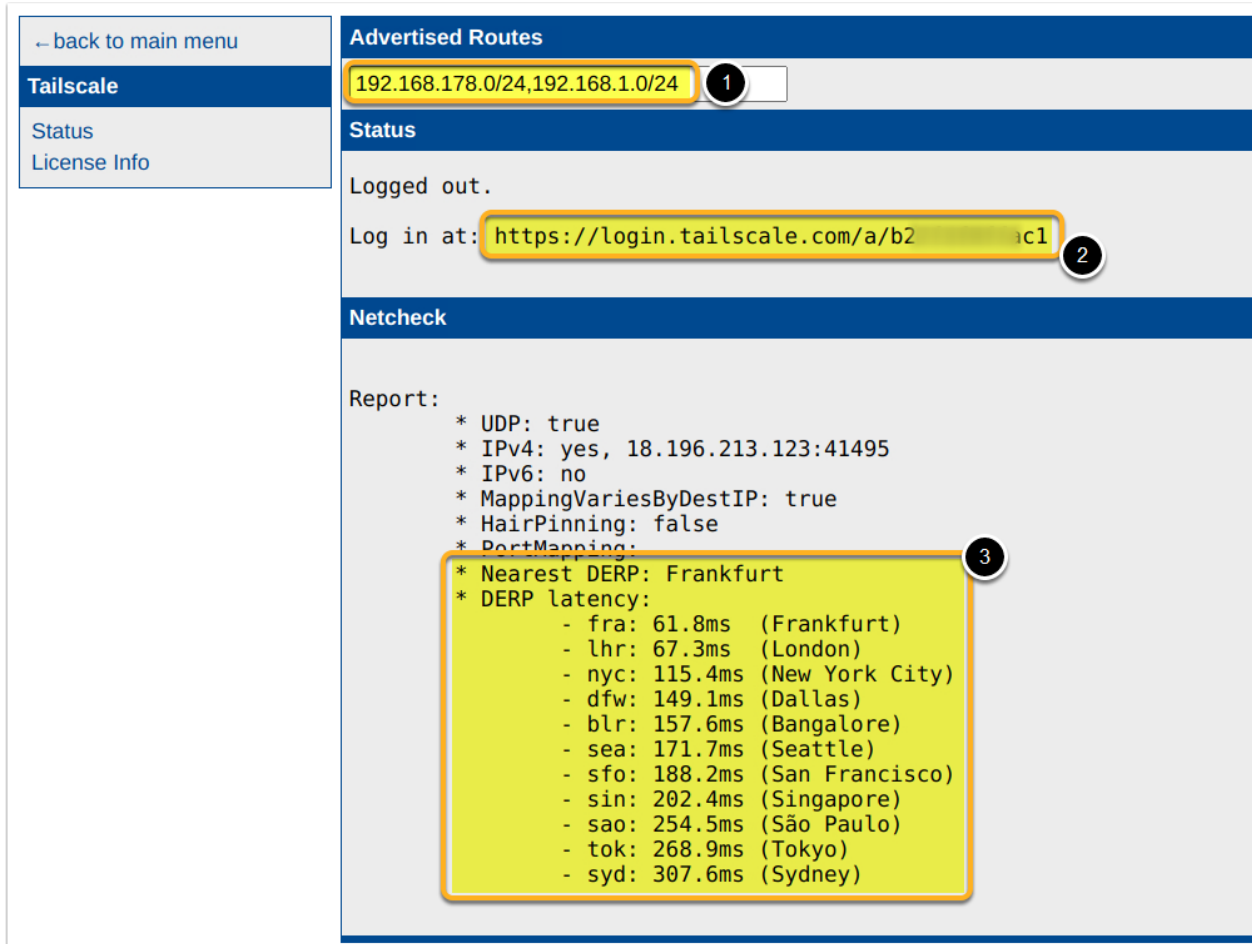


4. Quick Start

Open the module overview page



The Status Page



– back to main menu

Tailscale

Status
License Info

Advertised Routes

192.168.178.0/24,192.168.1.0/24 1

Status

Logged out.

Log in at: <https://login.tailscale.com/a/b2...ic1> 2

Netcheck

Report:

- * UDP: true
- * IPv4: yes, 18.196.213.123:41495
- * IPv6: no
- * MappingVariesByDestIP: true
- * HairPinning: false
- * PortMapping:
- * Nearest DERP: Frankfurt
- * DERP latency:
 - fra: 61.8ms (Frankfurt)
 - lhr: 67.3ms (London)
 - nyc: 115.4ms (New York City)
 - dfw: 149.1ms (Dallas)
 - blr: 157.6ms (Bangalore)
 - sea: 171.7ms (Seattle)
 - sfo: 188.2ms (San Francisco)
 - sin: 202.4ms (Singapore)
 - sao: 254.5ms (São Paulo)
 - tok: 268.9ms (Tokyo)
 - syd: 307.6ms (Sydney)

1. This is the list of static networks detected on the primary and secondary LAN. They will be advertised to the Tailscale service and used in a later step. This field is only informational.
2. Copy the log in link and open it in your browser
 - If the log in link does not show up wait 1 minute and refresh the page.
 - If it still does not show up make sure the OWL is connected to the internet. You can verify this for example via ping from the command line of the OWL.
3. Netcheck shows to which Tailscale server the device is connected to (DERP) and how fast the servers can be reached (DERP latency).

Authorize the device with your Tailscale account

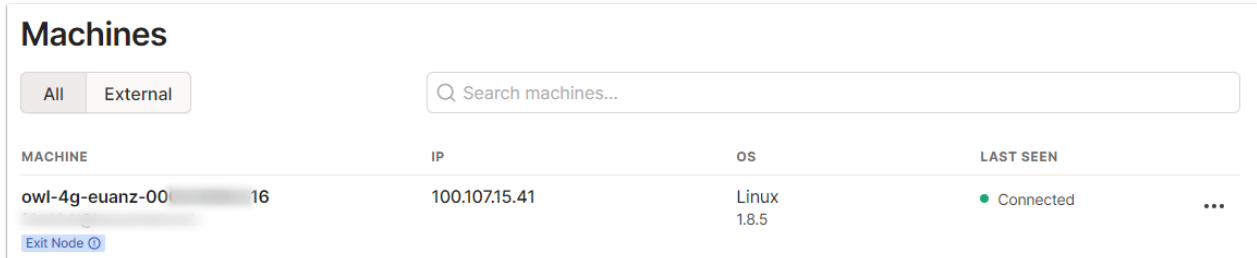
Open the log in link in a browser and enter your Tailscale credentials. Afterwards you will see the “Authorization successful” screen:



Authorization successful

You can now close this window

[Open the Tailscale admin panel](#)



Machines

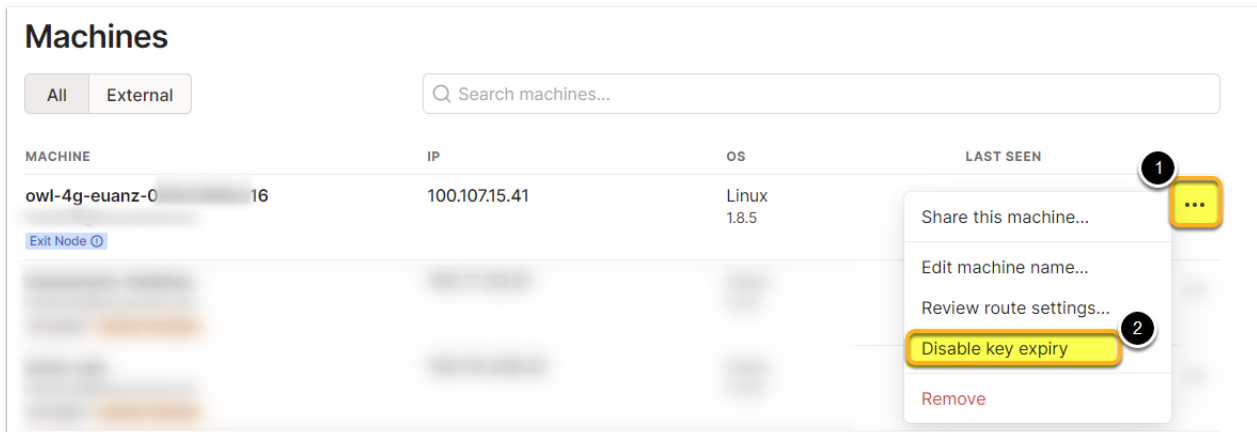
All External

MACHINE	IP	OS	LAST SEEN
owl-4g-euanz-0016	100.107.15.41	Linux 18.5	Connected

[Exit Node](#)

The device will show up with the name you configured as the SNMP name in the router.

[Disable key expiry](#)



Machines

All External

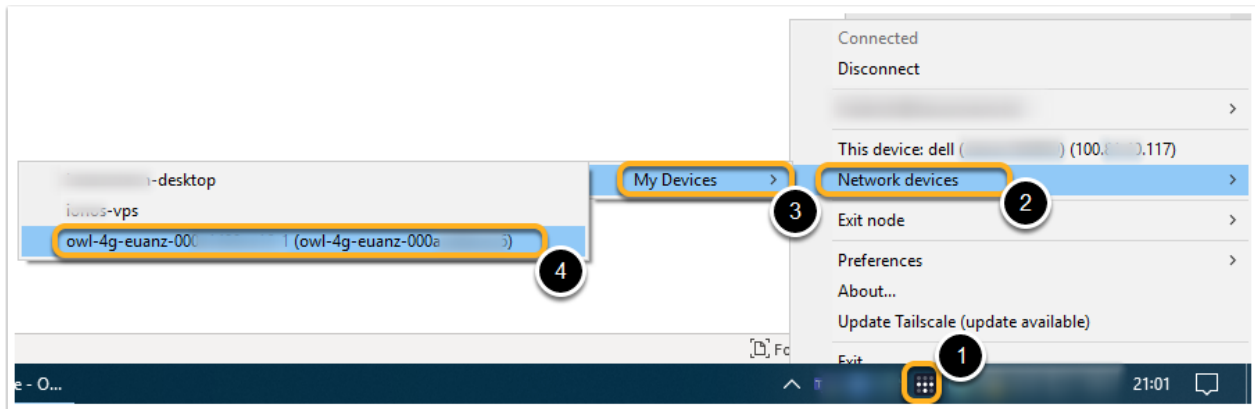
MACHINE	IP	OS	LAST SEEN
owl-4g-euanz-016	100.107.15.41	Linux 18.5	

[Exit Node](#)

- Share this machine...
- Edit machine name...
- Review route settings...
- Disable key expiry**
- Remove

By default, the authorization for the OWL router is only valid for 6 months. In order to make the authorization permanent “Disable key expiry”.

Connect from your Laptop to the OWL device

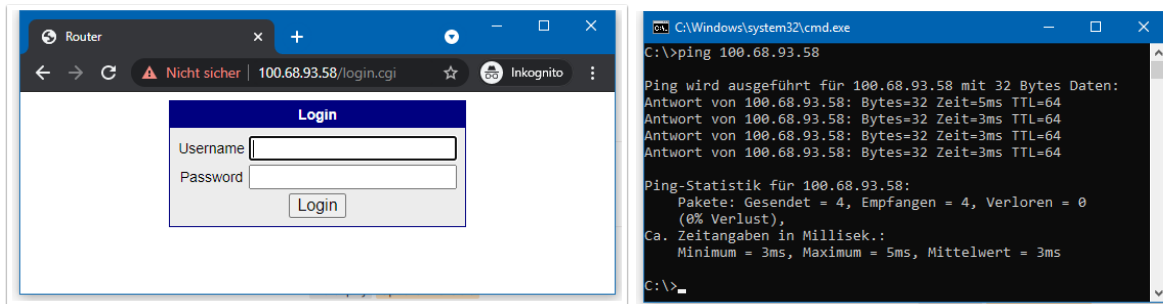


Once you are connected to TailScale from your laptop you can already connect to the OWL router.

The IP address of the OWL router can be easily copied to the clipboard by:

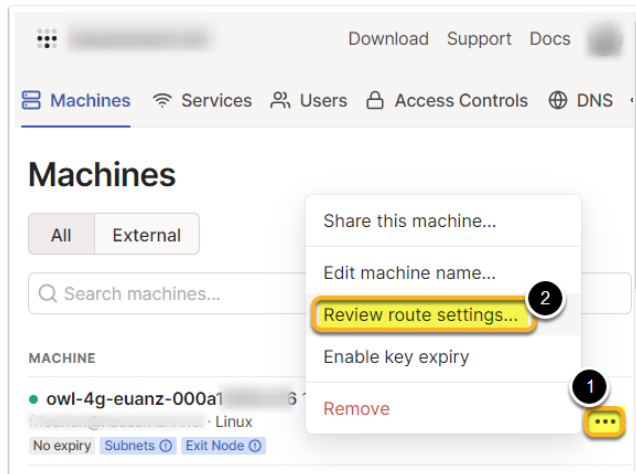
1. Right click the TailScale tray icon
2. Select network devices
3. My devices
4. Select the OWL device
5. Now the IP address is copied to your clipboard and can be used with the CTRL+V keyboard shortcut
6. Open a Browser and paste (CTRL+V) the ip address as the URL

After accepting the security exception, you can log in remotely to the OWL router or ping the device.

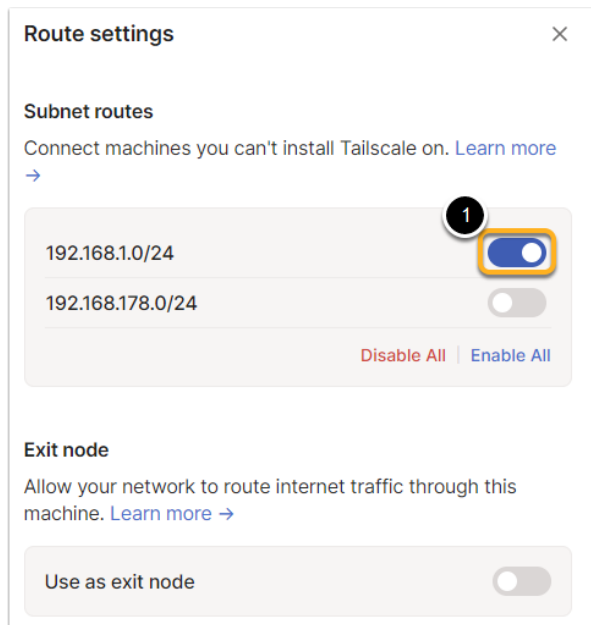


Connect from your Laptop to devices on the Ethernet of the OWL device

Go to the admin panel of TailScale and go to the route settings dialog:



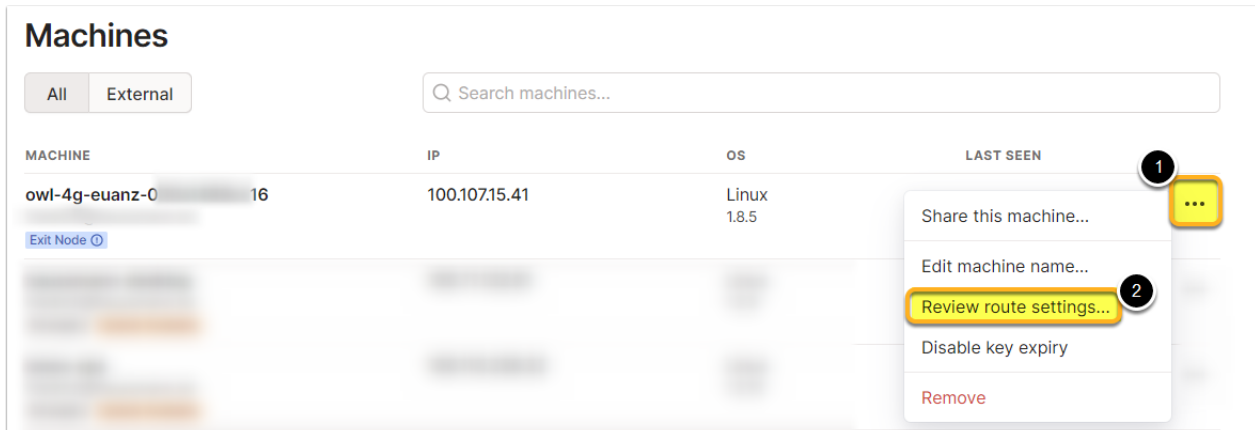
Enable the ethernet network you wish to connect to on the OWL device:



This enables the connection to this subnet automatically from all connected devices of your Tailscale account.

If you use another OWL with an overlapping or identical subnet you want to remotely access, make sure to only activate one of them at a time.

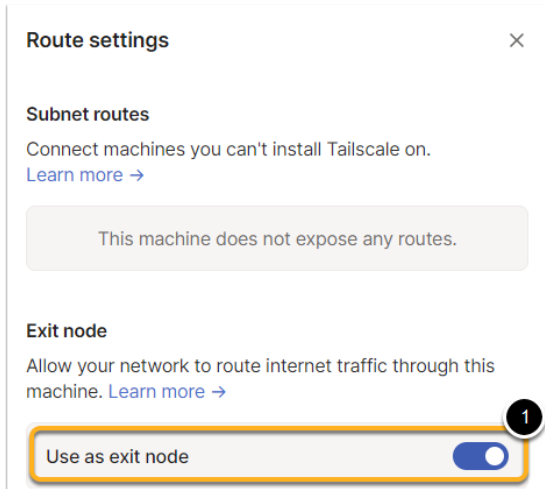
Exit node functionality



The screenshot shows the 'Machines' page in the Tailnet interface. It features a search bar and a table with columns for MACHINE, IP, OS, and LAST SEEN. A machine named 'owl-4g-euanz-0' is highlighted, and a context menu is open over it. The menu items are: 'Share this machine...', 'Edit machine name...', 'Review route settings...' (highlighted with a yellow box and a '2' callout), 'Disable key expiry', and 'Remove'. A '1' callout points to the three-dot menu icon.

MACHINE	IP	OS	LAST SEEN
owl-4g-euanz-0	100.107.15.41	Linux 1.8.5	

The OWL router is already accessible over its Tailscale IP address, but if you want all your data from your laptop to go through the OWL router, like in an office or public VPN kind of setup you can use the exit node functionality.



The 'Route settings' dialog box is shown. It has a close button (X) in the top right. Under 'Subnet routes', it says 'Connect machines you can't install Tailscale on. Learn more →'. A message box states 'This machine does not expose any routes.' Under 'Exit node', it says 'Allow your network to route internet traffic through this machine. Learn more →'. A toggle switch for 'Use as exit node' is turned on and highlighted with a yellow box and a '1' callout.

5. Changelog

Version 1.8.7-2021-06-08-beta

- Upgrades to Tailscale version 1.8.7
- Implements subnet advertisement for remote access of network devices attached to the ethernet ports of the OWL

Version 1.8.5-2021-06-02-beta

- Integrates Tailscale

6. License and Legal Information

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EULA

END USER LICENSE AGREEMENT

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These Hirschmann Software Conditions - Embedded Software constitute a legally-binding contract between Hirschmann Automation and Control GmbH, Stuttgarter Strasse 45-51, 72654 Neckartenzlingen (hereinafter referred to as "Hirschmann") and the Customer concerning the use of Hirschmann software

products (machine-readable computer programs (including updates) as well as the associated media, printed materials and documentation in electronic format) in the form of embedded codes as part of a Hirschmann product, system or device (e.g. an industrial Ethernet switch) (hereinafter referred to as the "embedded software").

These Hirschman Software Conditions - Embedded Software apply for all - including future - contracts, deliveries and other services which pertain to Hirschmann products, systems or devices where Hirschmann is the seller or contractor. By placing the order or awarding the contract, the customer declares itself in agreement with the following Hirschmann Software Conditions - Embedded Software. If the order is confirmed by the customer only on the basis of its own purchasing conditions, then Hirschmann hereby objects thereto.

Our Conditions are deemed to have been accepted at the latest upon receipt or use of the Hirschmann products, systems or devices which are equipped with embedded software.

1. Definitions

"Customer"

A Customer for the purposes of this contract is a natural person who or a legal entity which receives direct deliveries of the embedded software from Hirschmann.

"Third party"

A third party for the purposes of this contract is a natural person who or a legal entity which receives embedded software deliveries from the Customer and not from Hirschmann.

2. Subject of the Contract

Pursuant to this contract, the Customer receives without time limit the right of use of the embedded software delivered to it on the Hirschmann products, systems or devices provided therefor, as well as the use of necessary literature and documentation. The right of use is not exclusive and - insofar as nothing to the contrary arises from these Software Conditions - Embedded Software - is not transferable. To the extent that it is necessary and not otherwise agreed upon between the contractual partners, installation of the embedded software will be performed by the Customer on its own responsibility and in accordance with the installation instructions. The selection of the Hirschmann products, systems or devices equipped with the embedded software and consultation regarding the applications intended by the Customer, and also instruction, training and other technical support of the Customer, are not a subject of this contract. They may be the subject of a separate contract. Without such agreement, only the Customer assumes the risk associated with the selection of the Hirschmann products, systems or devices equipped with the embedded software and their suitability for the applications intended. Hirschmann is liable in such an event only within the scope of sub-paragraph 9 of these Software Conditions.

3. Extent of Performance and Function

The extent of performance and function of the delivered programs is determined by the product descriptions valid at the time the contract is entered into.

4. Updates

Insofar as the embedded software is labelled or designated as an update, in order to use this, it is necessary to obtain a licence for a product which is defined by Hirschmann as suitable for the update (hereinafter referred to as a "suitable product"). A software product which is labelled as an update replaces and/or augments the starting product. The Customer may use the resulting updated product only in compliance with the provisions of these Software Conditions.

Insofar as the embedded software is an update of a component of a software program package which the Customer has licensed as a unified product, the embedded software may be used only as part of that unified product package and may not be separated for use on more than one computer.

5. License Fees

Fees for the right of use of the embedded software delivered are - insofar as nothing to the contrary is agreed upon - included as a once-off licence fee in the purchase price for the Hirschmann products, systems or devices equipped with the embedded software.

6. Right of Use

The embedded software may only be used on one item of the Hirschmann products, systems or devices provided therefor. Any additional use of the embedded software on further Hirschmann products, systems, devices or hardware requires a separate agreement with Hirschmann and is only permissible after payment of a corresponding fee for right of use. Copies may only be made for archive purposes, as replacements, or for fault diagnosis. All rights in the embedded software (including documentation), especially the right of copying, distribution and translation, remain the rights of Hirschmann. The Customer must ensure that the embedded software and documentation are not accessible to third parties without Hirschmann's previous written permission. The copyright notice located on the original is to be affixed to all copies.

The Customer may transfer the right of use of the embedded software to a third party (for instance, through a re-sale contract) only if the latter acknowledges these Hirschmann Software Conditions - Embedded Software and the Customer proves to Hirschmann without being requested to do so that it has handed over to the third party, deleted, destroyed or otherwise made unusable all of the tangible and intangible copies of the embedded software (including all components, media and printed materials and all updates). If the embedded software to be transferred is an update, the proven transfer, deletion, destruction or deactivation must also encompass all of the previous versions of the embedded software. With the transfer, all rights of use of the Customer are cancelled, including the rights of any copies, which are to be transferred to the third party. The Customer may not transfer the embedded software to a third party if there is a justifiable supposition that the third party might breach the conditions of the Hirschmann Software Conditions - Embedded Software, especially that it might create unauthorized copies. This is also valid with regard to employees of the Customer.

The Customer is not entitled to grant sub-licences concerning the embedded software to third parties. In the event of a breach of the rights of use or upon a modification of the embedded software by the Customer, Hirschmann may withdraw the right of use from the Customer and - irrespective of other existing rights - demand the return or the destruction of the embedded software as well as that of any existing copies. The right of use of the embedded software may be terminated without notice by Hirschmann if a significant cause exists. A significant cause shall exist for Hirschmann especially if the Customer breaches the conditions of this contract and continues its actions in breach of contract, even though Hirschmann has warned it against such actions. The right of use is granted subject to the complete payment of the one-time license fee.

7. Proprietary Rights

With reservation of all rights of use granted under section 6, Hirschmann remains the proprietor of all rights, especially those of copyrighted exploitation rights, also those of copying, distribution and translation of the delivered programs, of the literature and documentation and similar items pertaining thereto, and of all complete or partial back-up copies made by the Customer within the scope of its use. If the program is delivered to the Customer only in machine code, then the Customer will not acquire access to the source code. The Customer is obligated to prevent unauthorized access by third parties to the embedded software, as well as to the documentation, by appropriate precautionary measures.

Delivered original data carriers and back-up copies are to be maintained in a secure place to prevent unauthorized access by third parties. The Customer will instruct its employees in an appropriate manner concerning Hirschmann's proprietary rights.

8. Obligation to Inspect and Report Defects

The Customer is obliged to examine the embedded software delivered and/or the Hirschmann product, system or device equipped with embedded software, including documentation, within 8 working days after delivery, especially with regard to data carriers and manuals, as well as to the operability of the basic program functions. Defects which are thereby ascertained or ascertainable must be reported to Hirschmann within without undue delay. The notification of defects must contain a best-efforts description in detail of the defects. Defects which are not ascertainable within the framework of the described and orderly examination must be reported within 8 working days after their discovery in compliance with the described defect requirements. Upon failure to fulfil the obligation to examine and inspect, the embedded software is considered as accepted with due regard for concerned defects.

9. Warranty

The Customer is aware that, in accordance with the state-of-the-art technology, it is not possible to produce a computer program which is completely free of errors. Hirschmann warrants that the programs delivered as embedded software will fulfil the functional and performance features which are contained in the valid product descriptions at the time of entry into the contract, or which are separately agreed to. Excepted from this are defects which represent only non-essential deviations from the respective valid product description.

Hirschmann assumes no responsibility that the embedded software will run without interruption or error, that all software errors can be eliminated by Hirschmann, and that the functions contained in the embedded software may be executed in all of the combinations selected by the Customer or that they correspond to its requirements. Hirschmann assumes the obligation to rectify software errors which impair use in compliance with the contract and which are not of an immaterial nature, specifically at Hirschmann's selection and, depending on the significance of the error, by the delivery of improved embedded software or through information regarding the elimination or through circumvention of the effects of the error. The precondition for the rectification of errors is that the effects of the errors be reproducible, that they be adequately described by the Customer, and that the error be reported to Hirschmann within the term stipulated in section 8.

The warranty is excluded to the extent that the error is due to the Customer or a third party making modifications of any kind to the embedded software or data carriers or treating them in an improper manner. Hirschmann warrants that the data carrier is free from material or manufacturing defects. Hirschmann will replace any defective data carriers with data carriers which are free of defects. The Customer has the right to demand a reduction of the user's fee upon an unsuccessful replacement shipment, or to rescind the contract without cost. In the event of rescission, the Customer will return to Hirschmann any data carrier with the embedded software and documentation pertaining thereto or will destroy any existing copies. For further claims, especially for compensation for damage which does not occur in the programs themselves, Hirschmann assumes liability pursuant to section 10.

10. Liability of the Licensor/Exclusion of Liability

Claims against Hirschmann as well as its employees or agents for compensation for damage, irrespective of the legal basis, are excluded, especially a claim for replacement of damage which does not occur to the embedded software itself.

This does not apply to the extent that Hirschmann is liable under mandatory law, e.g. in the case of (i) personal injury or damage to privately-used property pursuant to the German Product Liability Act, (ii) due to loss of life, personal injury or damage to health which is due to a negligent or intentional breach

of duty by Hirschmann or one of Hirschmann's legal representatives or one of Hirschmann's vicarious agents, (iii) insofar as the cause of damage or loss is due to intentional behaviour or gross negligence by Hirschmann or a legal representative or a vicarious agent of Hirschmann, (iv) if the Customer asserts rights due to a deficiency under a quality guarantee or the particular duration of a quality, (v) Hirschmann negligently breaches a fundamental contract obligation whose fulfilment is what makes the due performance of the contract possible at all and on whose compliance the Customer may regularly rely (cardinal obligation), or (vi) claims for recourse in the customer goods purchase supply chain (§ 478 of the German Civil Code (BGB)) are concerned.

Hirschmann is not liable for the replacement of data unless Hirschmann wilfully or through gross negligence caused the data's destruction and the Customer has determined that that data can be reconstructed at reasonable cost from data material which is available in machine-readable form.

All claims directed against Hirschmann due to a quality defect or a defect in title become time-barred 12 months after the statutory warranty commencement, unless the German Product Liability Act or other legislation, particularly § 479.1 of the BGB (recourse claims in the consumer goods purchase supply chain) prescribe longer periods. The period of limitations for claims based on liability for damage and loss arising out of loss of life, personal injury or damage to health which is due to a negligent or intentional breach of duty by Hirschmann or a legal representative or vicarious agent of Hirschmann, and for other damage and loss which is due to an intentional or grossly negligent breach of duty by Hirschmann or a legal representative or vicarious agent of Hirschmann, shall be determined in accordance with the statutory provisions.

The provisions set out in these Software Conditions - Embedded Software concerning the exclusion of liability (section 10) shall apply only if the Customer is a businessperson (§ 14 of the BGB), a legal entity under public law or a public-law special fund.

11. Return of the Program

If the program delivered based on this contract is partially or wholly exchanged within the framework of the warranty performance, then the Customer is obligated to verifiably destroy the original of the program or to return it to Hirschmann.

12. Termination of the Contract

The Customer is able to terminate the contract at any time in whole or in part. The. In the event of the termination of this contract, the Customer is obliged to return to Hirschmann or verifiably destroy the original as well as all copies and partial copies of the programs concerned and also modified copies of the pertinent programs associated with other software materials. This applies correspondingly for program documentation and other delivered literature. Retention of an archive copy for back-up reasons requires a separate, written agreement. The license fee paid - insofar as nothing to the contrary is agreed - will not be refunded.

13. Written Form

Supplementary agreements and modifications must be in written form. This applies also to a waiver of this written-form requirement.

14. Choice of Law, Legal Venue

The application of German law is hereby agreed. For any disputes which should arise as a result of the contractual relationship when the Customer is a fully-qualified merchant, a legal entity under public law or a special fund under public law, then the court at the place of Hirschmann's headquarters will have jurisdiction.

15. Partial Invalidity

If a condition of this contract should be or become invalid, the validity of the remaining conditions shall not be affected thereby. In such an event, the invalid condition is to be understood, interpreted or replaced so that the economic purpose pursued through it is achieved.

16. Export

The Customer will comply with the German and American export regulations when exporting the embedded software.

Product Beta Test Agreement

This is an agreement between Hirschmann Automation and Control GmbH ("Company") and the Beta Testing Customer ("Tester"), in which Tester agrees to test a hardware and/or software beta product (the "Product") and keep Company aware of the test results.

§1. Company's Obligations

Company is owner of a prototype product identified (list name of product) which it desires to have tested by a prospective user in what is commonly referred to as "Test". The Product contains valuable, confidential, trade secret information owned by Company.

Company shall provide Tester with a Product and any necessary documentation and instruct Tester on how to use it and what test data is desired by Company.

§2. Tester's Obligations

Tester desires to test and evaluate the Product for suitability for use in its business.

Tester shall test Product under normally expected operating conditions in Tester's test environment during the test period. Tester shall evaluate the Product and gather and report test data with respect to the usefulness and functionality of the Product as agreed upon with Company. Tester shall allow Company access to Product during normal working hours for inspection, modifications and maintenance. Tester shall report to Company, as soon as practical, any perceived defect in the Product and, following the discovery of any material defect, shall terminate its use of the Product. At the conclusion of the test, Tester shall provide to Company an evaluation of the Product, including both positive and negative aspects.

Tester is aware that the Product represents a prototype product that may be faulty and/or not fit for use and that Company uses this Test to find out the fitness and bugs of its Product. Therefore Tester also understands and hereby explicitly accepts that Company is warranting nothing with respect to the Product and fully excludes any liability in this respect (see Sections 7 and 8).

§3. Product a Trade Secret

a) Product is proprietary to, and a valuable trade secret of, Company. It is entrusted to Tester only for the purpose set forth in this Agreement. Tester shall maintain Product in the strictest confidence. Tester will not, without Company's prior written consent:

(a) Disclose or use for own purposes (other than the test described herein) any information about Product, its design and performance specifications, its code, and the existence of the beta test and its results to anyone other than Tester's employees who are performing the testing and who shall be subject to written nondisclosure restrictions at least as protective as those set forth in this Agreement (the disclosure to other persons than Tester's employees (e.g. consultants etc.) requires the prior written consent of Company and is only permitted after such consent if the other requirements mentioned in this paragraph are met;

(b) Copy any portion of Product or documentation, except to the extent necessary to perform beta testing; or

(c) Reverse engineer, decompile or disassemble Product or any portion of it.

(d) Disclose or use for own purposes (other than the test described herein) any other information – no matter what kind and related to what – about the Company or Product without prior written consent of the Company.

b) Tester has the obligation to hand over any test results, observations and any other findings that are a result of the testing to Company.

c) The nondisclosure obligation does not end with the termination/end of this agreement but will continue for a term of 5 (five) years after the termination / end of this agreement.

d) Tester has to return or destroy (at the choice of Company) all information including all copies after the effective date of the termination / end of this agreement to the Company. Tester has to confirm in writing that all information has been returned or destroyed and that neither he nor his employees or consultants etc. has any information (or part of it) left in his possession.

e) Tester will be liable for any damage of the Company resulting out of the breach of this confidentiality clause caused by himself or his employees or consultants etc.

§4. Security Precautions

Tester shall take reasonable security precautions to prevent Product from being seen by unauthorized individuals. This includes software whether stored on Tester's hard drive or on physical copies such as CD-ROMS, diskettes or other media. Tester shall lock all copies of Product and associated documentation in a desk or file cabinet when not in use.

§5. Term of Agreement

The test period shall last from receipt of Product by Tester, until Product is released for general sale. This Agreement shall terminate at the end of the test period or when Company asks Tester to return Product, whichever occurs first. Company may terminate this Agreement upon notice to Tester, subject to Tester's obligation to return (or destroy – as the case may be) the Product, Confidential Information and all copies thereof.

The restrictions and obligations contained in Clauses 3, 4, 7, 8, 9 and 10 shall survive the expiration, termination or cancellation of this Agreement, and shall continue to bind Tester, its successors, heirs and assigns.

§6. Return of Product and Materials

Upon the conclusion of the testing period or at Company's request (e.g. after termination of this agreement), Tester shall within 10 days return the hardware, original and all copies of software and all related materials to Company and delete all portions of software from device electronic memory. At the choice of Company Tester can be obliged to destroy and confirm destruction of Product and all related confidential information (including any copies of it). Section 3 d) is fully applicable.

§7. Disclaimer of Warranty

Product is a test product and its accuracy and reliability are not guaranteed. Tester shall not rely exclusively on Product for any reason. Tester waives any and all claims Tester may have against Company arising out of the performance or nonperformance of Product.

PRODUCT IS PROVIDED AS IS, AND COMPANY DISCLAIMS ANY AND ALL REPRESENTATIONS OR WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, WITH RESPECT TO IT, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

§8. Limitation of Liability

Insofar as nothing is stipulated to the contrary in this § 8, claims of the Tester based on breaches of an obligation arising from contractual obligations and/or on material defects or defects in title - for whatever legal reason - are hereby excluded. The Company shall not be liable for damage which has not occurred to the Product itself. In particular, the Company shall not be liable for loss of profits or other pecuniary loss suffered by the Tester in this respect.

The foregoing no-liability declaration shall not apply in circumstances where the Company is compulsorily liable, for example (1) pursuant to the German Product Liability Act, (2) due to loss of life, personal injury or damage to health which is attributable to a negligent or intentional breach of obligation by the Company or one of the Company's legal representatives or vicarious agents, (3) if the cause of damage or loss was due to intentional behaviour or gross negligence by the Company or one of

the Company's legal representatives or vicarious agents, (4) if the Tester asserts rights based on a defect arising from a guarantee regarding the product qualities or the particular duration of a product quality, (5) the Company negligently breaches a fundamental contractual obligation whose fulfilment is what makes the due performance of the contract possible at all and whose fulfilment may be usually relied upon by the Tester (cardinal obligation), (6) recourse claims in the consumer goods purchase delivery chain (§ 478 of the German Civil Code (BGB)) are involved.

If the Company negligently breaches a cardinal obligation, its obligation to pay damages is limited to the contract-typical, foreseeable loss, if no intentional or grossly negligent behaviour is involved, and/or the Company is not liable due to loss of life, personal injury or damage to health.

§9. No Rights Granted

This Agreement does not constitute a grant or an intention or commitment to grant any right, title or interest in Product or Company's trade secrets to Tester. Product and all related trade secrets and other rights stay in the ownership of Company. Tester may not sell or transfer any portion of Product to any third party or use Product in any manner to produce, market or support its own products. Tester shall not identify Product as coming from any source other than Company.

§10. No Assignments

This Agreement is personal to Tester. Tester shall not assign or otherwise transfer any rights or obligations under this Agreement.

§11. General Provisions

(a) Relationships: Nothing contained in this Agreement shall be deemed to constitute either party a partner, joint venturer or employee of the other party for any purpose.

(b) Severability: If a court finds any provision of this Agreement invalid or unenforceable, the remainder of this Agreement shall be interpreted so as best to affect the intent of the parties.

(c) Integration: This Agreement expresses the complete understanding of the parties with respect to the subject matter and supersedes all prior proposals, agreements, representations and understandings. This Agreement may not be amended except in a writing signed by both parties.

(d) Waiver: The failure to exercise any right provided in this Agreement shall not be a waiver of prior or subsequent rights.

(e) Attorney Fees and Expenses: In a dispute arising out of or related to this Agreement, the prevailing party shall have the right to collect from the other party its reasonable attorney fees and costs and necessary expenditures.

(f) Governing Law: This Agreement shall be governed in accordance with the laws of the Federal Republic of Germany.

(g) Jurisdiction: The parties consent to the exclusive jurisdiction and venue of the federal and state courts located in Stuttgart Germany in any action arising out of or relating to this Agreement. The parties waive any other venue to which either party might be entitled by domicile or otherwise.