Ethernet Communication Interface – **ECI**

The Link between wireless xComfort and Ethernet.

The solution for Residential and Light Commercial Buildings.

Powering Business Worldwide

An Eaton Green Solution

Save energy while saving your own energy

with the wireless xComfort solutions!!

The range of products offered by Eaton, the world market leader in the area of electronic systems for the safe supply, distribution and control of electrical power, is quite comprehensive and includes intelligent solutions for both private residences as well as public functional buildings. Solutions that readily take into account the requirements of tomorrow. Such as comfort and sustainability.

This applies, now more than ever, to the future growth area of wireless building automation. This is an area where Eaton is also setting new standards and, in the process, is fulfilling its promise of offering green, intelligent electrical installations.

Smart interface for „green buildings“

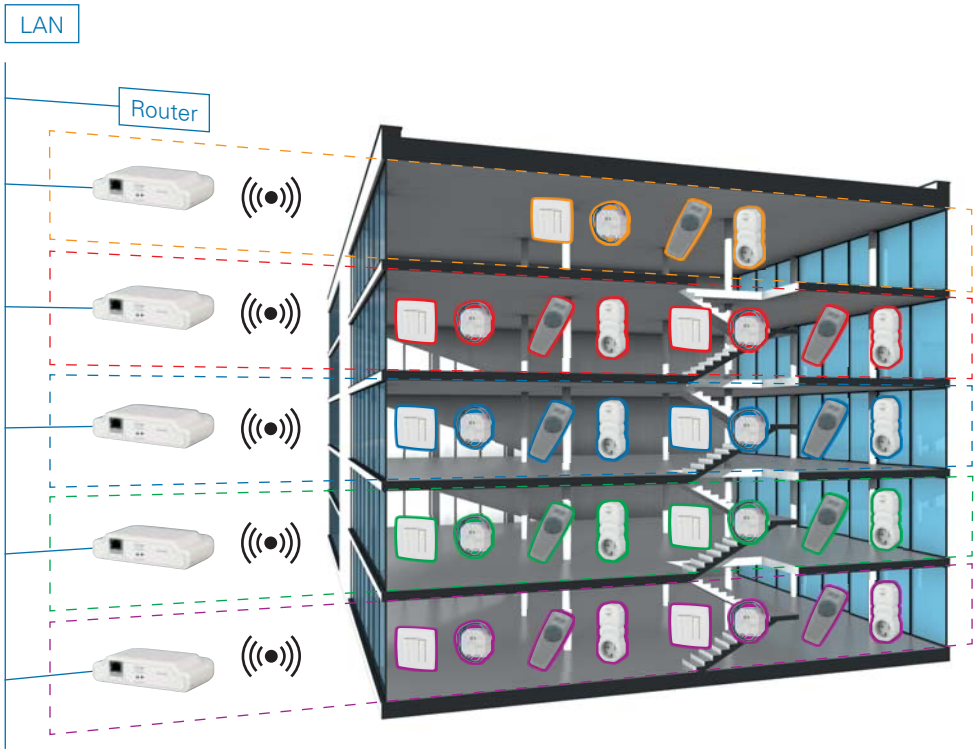
Thanks to the ECI interface (Ethernet Communication Interface), xComfort wireless building automation has also become a reality for „green buildings“. With the ECI (Ethernet Communication Interface) it is now possible to connect multiple remote systems with one another via Ethernet.

Eaton and Ethernet – a perfect connection that keeps to its promises.

Thanks to the new Ethernet Communication Interface (ECI).

Since the market launch of its wireless xComfort building automation system, Eaton has focused intensely on simple expansion options and problem solving, but also on general solutions for single- and multiple-family homes. Markets in very diverse regions have shown, however, that solutions in single-family homes are becoming increasingly challenging. But the demand for wireless building automation in functional buildings is also becoming increasingly louder.

As a result, Eaton has decided to expand its product portfolio in the area of xComfort wireless building automation with one additional component - the Ethernet Communication Interface (ECI). Individual xComfort remote solutions can be thus connected within a building over an Ethernet network. In this manner, the system can be expanded by individual components in an almost unlimited manner and can therefore be used in functional buildings with no problem. Ethernet is a globally recognised standard.



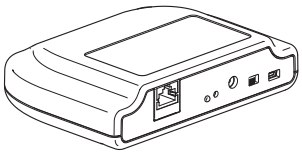
ADVANTAGES

- Integration using a global standard
- Communication may be structured and scaled
- Use of existing LAN infrastructure
- Networking option over LAN
- Easy configuration and diagnosis via MRF 2.0 software and/or web server
- Internet connection (IT know-how is assumed)
- Easy planning with few components
- Central control unit not necessary
- Easily expandable
- Added value through important additional benefits
- Energy savings and efficiency through networking
- Outstanding price/performance ratio
- Integration of other systems possible

1 Interface, 2 Models.

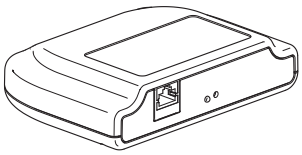
The basis for this clever concept is the extremely successful xComfort wireless building automation that has been effectively marketed in very diverse countries for almost the past ten years. Paired with the competence and cooperation partners assembled by Eaton, this concept is simply an unbeatable solution.

The xComfort system has now been enhanced with the Ethernet Communication Interface ECI, which essentially operates as the link between the wireless xComfort system and the worldwide-recognised Ethernet standard. The ECI is available in the following three models:



LAN

uses the extremely successful wired LAN for networking; an external power supply is required.



LAN PoE

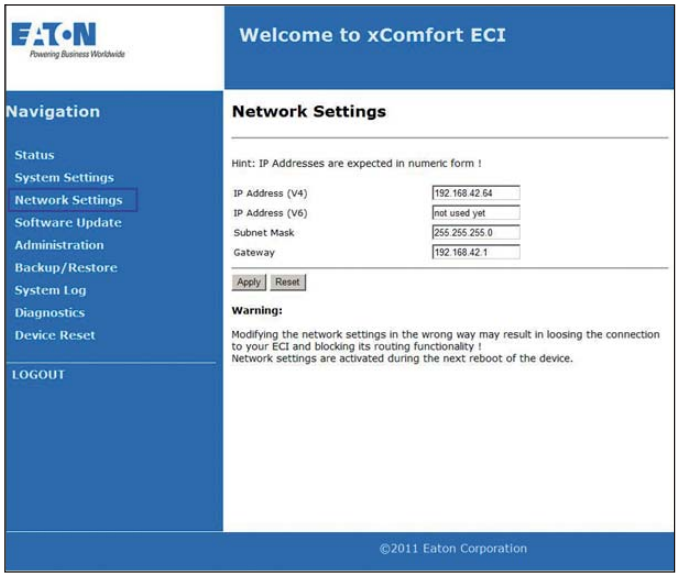
uses the extremely successful wired LAN for networking; an additional power supply is not required since the feed is provided over the Ethernet.

The required accessories round off the product offer.

Simply future-proof.

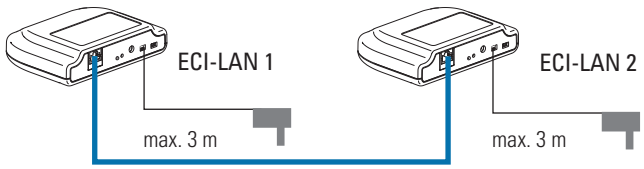
Eaton's ECI satisfies in terms of installation, start-up, and integration in other systems.

Based on the most modern Linux and xComfort technology, the ECI was developed for the market's requirements. All of our customers place great value on long-term feasibility and protection of their investments. For this reason, the ECI includes a web server, to be able to bring future functional expansions up-to-date at any time. Similarly, the IPv6 address, which will be used in the future, has already been included alongside the IPv4 address. As a result, both you and your clients will be well equipped for the future.



The concept

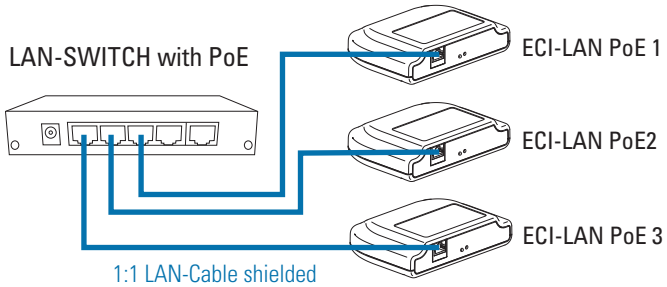
Even if you are not an IT technician or network specialist, you can install xComfort with Ethernet in no time at all. This is because the system set-up is scalable, depending on applications and know-how.



Crossover LAN-Cable shielded

Problem solver

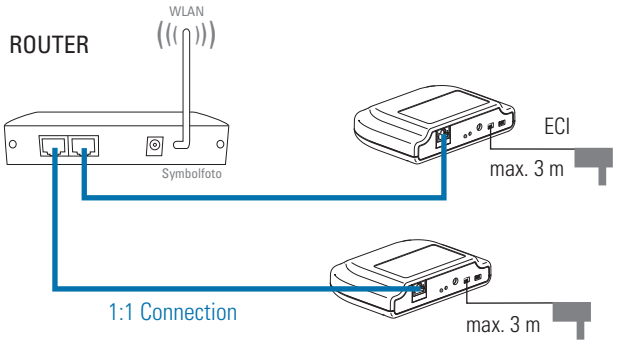
If your client does not have a possibility for wireless transmission due to structural factors (e.g. reinforced concrete, metal walls), you can integrate two ECIs in your xComfort system and replace the transmission line with a simple Ethernet network.



1:1 LAN-Cable shielded

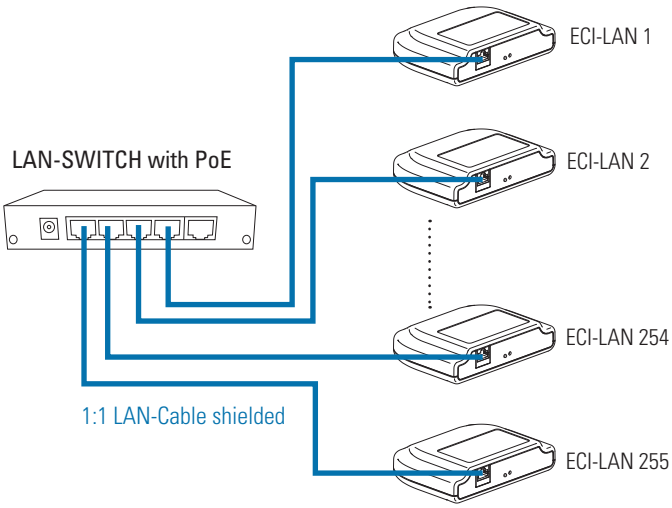
Simple house/home network

Your client already has a home network or the xComfort installation exceeds the recommended system limits?
Arrange for a simple, inexpensive network and the possibilities become almost limitless.



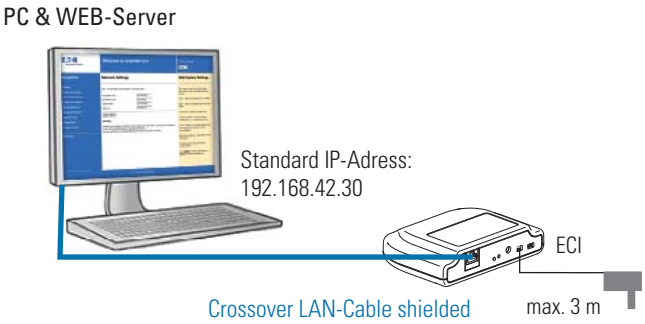
Internet connection

Your client wants an integration to the Internet? With the appropriate networking know-how, this will also not be a problem for you. Remote access is possible, the application even meets current requirements.



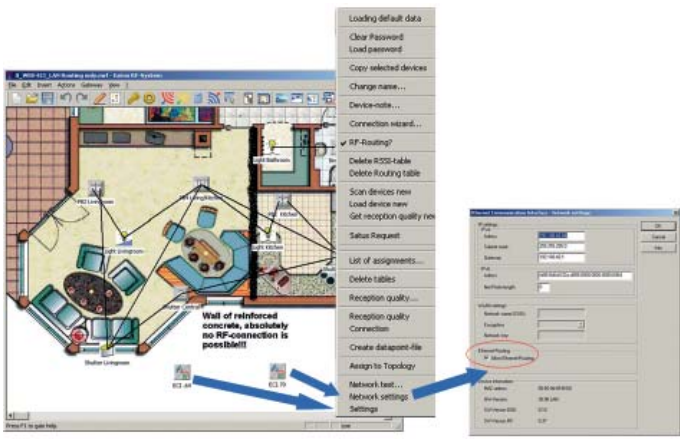
Integration in functional buildings

Your client requests network integration of his office building. He wants to use the advantages of wireless xComfort technology (flexibility, low installation costs, etc.) but requires an overall network that encompasses all floors/buildings and beyond?
No problem.
A total of 255 ECIs can be used for networking. Many small xComfort projects (rooms & floors) can become a single, large project with the help of the Ethernet network.



Integration of other systems

Your customer requests visualisation of the xComfort system with a particular software? Integration with the aid of documentation provided by Eaton also makes possible the connection of other systems, applications, functions, etc.



Easy startup using the MRF 2.0 software

The goal during development was being able to conduct the integration and startup of the network using the same software with which the wireless xComfort building automation is configured. The assignment of network-relevant settings (IP address, subnet mask, gateway address) and an IT communications check can be all conducted via MRF 2.0. This is a key advantage for all of our xComfort partners.

In addition, a web server is available.

Eaton is dedicated to ensuring that reliable, efficient and safe power is available when it's needed most. With unparalleled knowledge of electrical power management across industries, experts at Eaton deliver customized, integrated solutions to solve our customers' most critical challenges.

Our focus is on delivering the right solution for the application. But, decision makers demand more than just innovative products. They turn to Eaton for an unwavering commitment to personal support that makes customer success a top priority.

For more information, visit **www.eaton.eu/electrical**

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Eaton Industries (Austria) GmbH
Scheydgasse 42
1215 Wien
Austria

Eaton Industries Manufacturing GmbH
EMEA Headquarters
Route de la Longeraie
71110 Morges
Switzerland

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