



# Access Control & User Authentication with primos

Simple. Secure. Full Control.

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primos makes printing from iOS and macOS® devices in enterprise networks easy. primos is designed for enterprise networks and raises the bar when it comes to usability, data security and network protection for AirPrint®. Security features include authentication and access protection, an AirPrint® compatible user management, secure print data encryption, and local print data management.



#### The Product

primos stands for modern and mobile printing with extensive security features, AirPrint® compatible user management, strong access control, and encryption management.

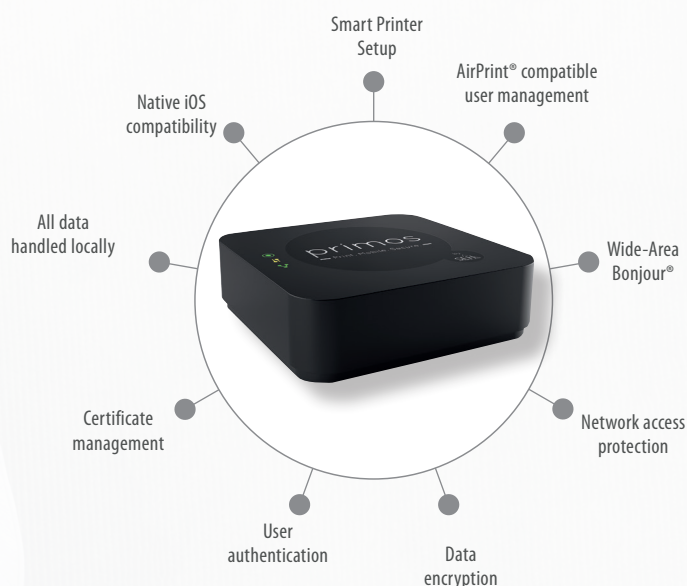
primos has native iOS compatibility and thus offers users mobile printing directly on their iOS devices. Print communication and print data management are exclusively handled in the enterprise network, i.e. everything is handled locally (on premise). Printing over subnets is possible as well (Wide-Area AirPrint®).

primos' hardware and software distinguish themselves with simple handling and a user-friendly interface—the latter is designed with clarity and transparency in mind. Integration into the existing enterprise network is easy for administrators as well as users—with a special focus on security, data protection and access control. primos supports up to 10 network printers.



#### Access Protection & User Management

Today, data protection and security are more important than ever for companies. Security demands are very high especially in enterprise environments. primos meets these demands: the mobile printing solution combines protection through authentication with a sophisticated user management. In addition, primos offers an AirPrint® compatible user management. This is a feature that most native AirPrint® solutions and AirPrint® printers do not have. primos is simple: it is configured and administrated via the user-friendly and simple primos Control Center.





## Authentication

With primos you can add a user authentication to AirPrint® via Directory Services. primos supports Microsoft® Active Directory®, Open LDAP®, and Apple® Open Directory. If a user initiates a print job on their iOS device, primos authenticates the print job through the directory service and prompts the user database for the user and the corresponding password (passwords are not stored on primos). Only then is the print job sent to the printer.

Each printer has a user management and printing permissions can be defined precisely as needed.

## primos does not save passwords.

With primos, authentication can be defined as needed. There are 3 ways to do that: In the simplest case, each domain user is allowed to print. In addition, access restriction via allow and deny lists are an option. This makes it simple to give users different access rights for printers and also allows for guest printing.

Furthermore, primos offers a similar user management feature to restrict access to the primos Control Center. Contrary to many other devices, primos does not necessarily have just one administrator. With the appropriate configuration access to the primos administration interface can be given to domain administrators. This makes sense especially for big enterprise networks where often only certain users have administrative access to sensitive network devices.



## Strong Security Features

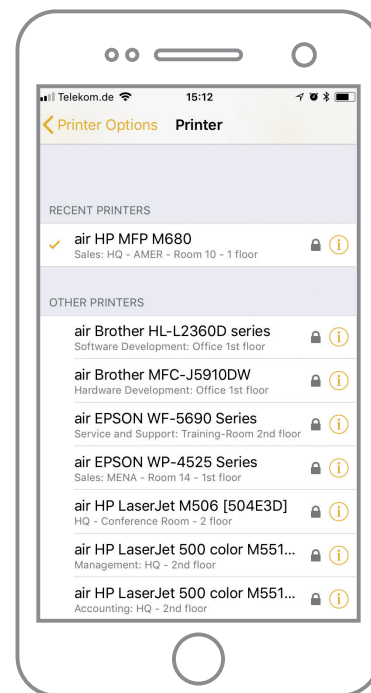
In order to guarantee security one must know the risks. To eliminate or at least reduce them as much as possible, primos offers several state-of-the-art security features such as:

### Encrypted print data transmission

primos supports state-of-the-art printing protocols, e.g. IPP Secure. In combination with encryption technology such as the encryption protocol TLSv 1.2, print data can be encrypted during the entire transmission in order to prevent eavesdropping.

### Certificate management

Some security features implemented in primos require the use of certificates. Certificates are used, amongst other purposes, for identifying and authenticating communication partners. In a nutshell: with certificates, others cannot pretend to be someone they are not. primos offers an enterprise level certificate management. Several CA certificates, certificate chains and so on. As a mobile printing solution primos wants to make things easy and user-friendly. Needless to say that this applies to certificates as well.



primos protects your data



## Authentication in networks

Enterprises have high demands when it comes to products that are to be integrated into their network. Network security has highest priority. primos supports IEEE 802.1X and can authenticate itself against an authentication authority such as a RADIUS server.

## No cloud!

primos processes print data only locally. All information stays within the user's network; data is neither processed in a cloud nor by other external services. You are your data's master and must not fear loss of control over sensitive information and print data.

For more information refer to our **primos user manual**.

→ to document

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in  
Germany

## Access control, authentication and security with primos

- Interfaces and network connectors
  - 1 × RJ-45 (IEEE 802.3; 10BaseT, 100BaseTX, 1000BaseT)
  - 1 × USB 2.0 (type A connector), For future use/ Service
- Supported directory services:
  - Microsoft® Active Directory®, OpenLDAP®
- Security
  - Encryption: SSL 3.0–TLS 1.2, HTTPS, IPP Secure, Secure AirPrint®, etc.
  - Authentication: 802.1X (EAP-MD5, EAP-TLS, EAP-FAST, EAP-TTLS, PEAP)
  - Device and port access control
  - Certificate management: self-signed certificate, certificate request, CA certificate, PKCS#12 certificate
  - Password protection
- For iOS® devices from iOS® 4.2
- All Mac® devices from OS X® 10.7.x



## SEH Computertechnik GmbH

We at SEH, specialize in professional network solutions. With more than 30 years of experience, we offer a broad range of expertise in network printing and USB virtualization solutions for all business environments.

All of our products are developed and produced at our headquarters in Bielefeld, Germany. Worldwide distribution is via our US and UK subsidiaries and an extensive network of partners, distributors, and resellers.

Our customers are made up of companies, corporations, authorities and institutions from a wide range of public and private sectors.