



**UCOPIA**  
TURN YOUR WI-FI UP

UCOPIA  
ADVANCE

SOLUTION



# UCOPIA ADVANCE

With the proliferation of mobile devices and the increasing trend of BYOD, the network operators are facing increased challenges in how to efficiently and securely manage the Internet access connectivity and broadband usage.

UCOPIA solutions are a next-generation identity and access control policy platforms that enable enterprises to enforce compliance, enhance infrastructure security, and streamline their service operations all without disrupting existing infrastructure and processes.

The UCOPIA Advance product line provides all of the UCOPIA functionalities and is intended for medium to large projects. (Campuses, Retail, Large venue / Public, Conference center, Airport etc)

**UCOPIA Advance stands between a wired (Ethernet, DSLAM, CPL) or wireless (Wi-Fi) access network and the organisation's LAN. UCOPIA Advance can also be used in a Cloud architecture with local breakout.**

**For on site deployment,** all data streams from or to the user pass through the UCOPIA Advance controller to guarantee security, to simplify integration with the LAN, to simplify administration, and to enhance user-friendliness.

**For a deployment in a Cloud architecture,** the UCOPIA appliance is set on a distant network. On site, a compatible equipment enables the portal redirection and a local breakout after authentication on the centralized UCOPIA appliance. Setting up UCOPIA Advance is very quick thanks to its simple and user-friendly administration graphic interfaces.

**UCOPIA Advance provides a redundancy and load distribution mechanism, allowing several thousand concurrent connections.**



## UCOPIA Advance License

- ADVANCE 150 › 150 simultaneous connections
- ADVANCE 250 › 250 simultaneous connections
- ADVANCE 500 › 500 simultaneous connections
- ADVANCE 1000 › 1000 simultaneous connections
- ADVANCE 2 000 › 2 000 simultaneous connections
- ADVANCE 5 000 › 5 000 simultaneous connections
- ADVANCE 10 000 › 10 000 simultaneous connections
- ADVANCE 20 000 › 20 000 simultaneous connections
- ADVANCE 50 000 › 50 000 simultaneous connections
- ADVANCE 100 000 › 100 000 simultaneous connections





# SECURITY

## USER AUTHENTICATION

UCOPIA Advance allows various authentication mechanisms based on 802.1x (PEAP, TTLS, TLS) or HTTPS protocols.

**UCOPIA Advance has an embedded RADIUS server and is able to use one or more corporate directories (LDAP, Active Directory) to carry out authentication.** In addition, UCOPIA Advance offers advanced authentication mechanisms such as cascading directories, RADIUS proxies, authentication by zone, etc.

Administration of authentication policies for the various user populations is carried out very simply via a secure Web interface.

## RIGOROUS MANAGEMENT OF ACCESS RIGHTS

Each user is characterised by his/her profile. The profile accurately describes the user's access rights (the Internet, messaging, internal applications) and **the profiles are applied dynamically during user connection periods.**

Depending on the user's profile, UCOPIA Advance is able to control which VLANs are authorised in input and output from the appliance.

For example, guests' data streams will only be accepted into the input VLAN associated with the Host zone, the data streams will then be directed in output from the box directly to the Internet. This makes it possible to isolate different groups of users and thus to enforce the company's security policies.

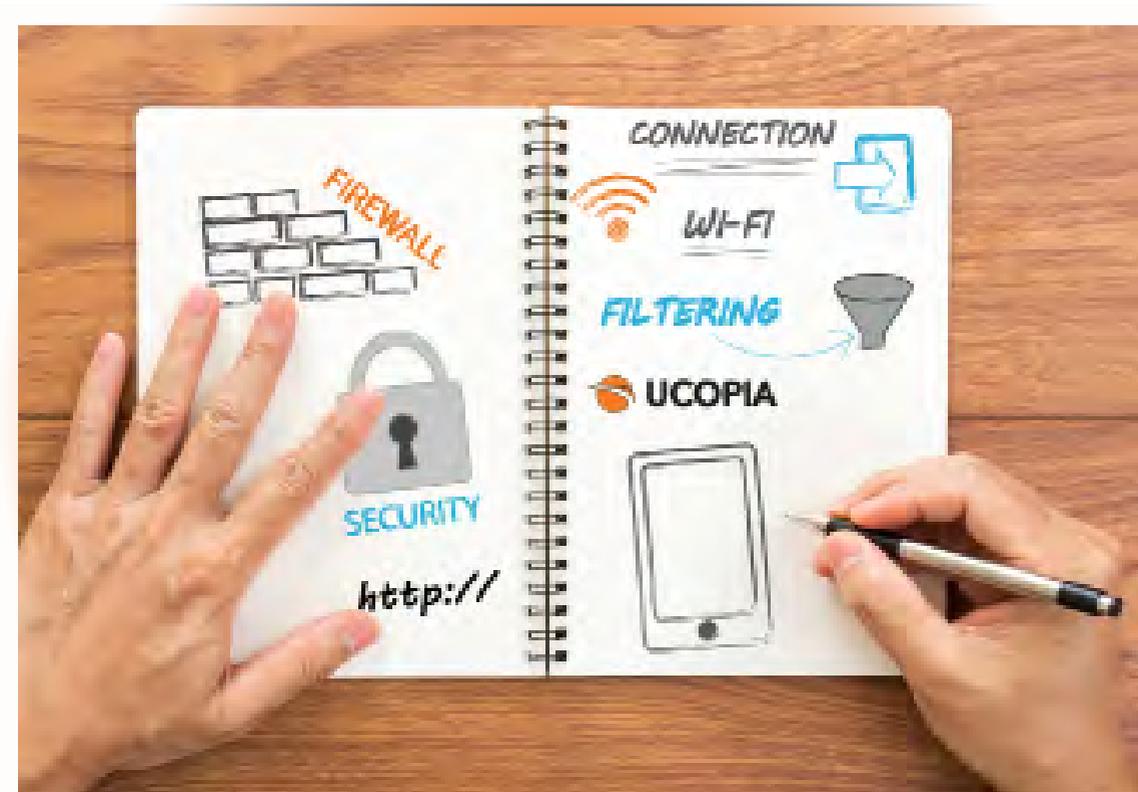
## THE RETENTION OF CONNECTION DATA

As soon as an organisation provides guest access, it has a legal obligation to protect connection data for those guests who connect to the network (European Directive 2006-24-EC and French Decree 2006-358 dated 24 March 2006).

**UCOPIA Advance meets this need by managing session logs (who is connected and when?) and activity logs (who did what?), an indispensable mechanism for meeting the legal requirements laid down by counter-terrorism law.**

## URL FILTERING

UCOPIA provides a native URL filtering mechanism. Filtering can be applied as user profile level. Several URL categories are available (Adult, Aggressive, etc.) allowing to apply different policies and to differentiate for example an "Adult" profile from a "Child" profile.



## CONFIDENTIALITY OF DATA

UCOPIA Advance complies with the encryption standards available at the access point (TKIP, AES) and standardized by the IEEE 802.11i.

# MOBILITY MANAGEMENT



## GUEST ACCESS

**UCOPIA Advance offers a straightforward and user-friendly Web tool enabling visitors to get an access to the network.** Using this tool, an authorised individual will be able to create a temporary account, and select a predefined profile with a time slot and/or timecredit.

A connection ticket will be generated and handed to the user. In addition to this visitor hosting tool, UCOPIA offers solutions allowing users to self-register on the UCOPIA portal. Under these circumstances, no third party intervention is necessary; users receive their connection settings via text message or by email or buy time credit on-line making payment by credit card.

## STRAIGHT-FORWARD AND CENTRALISED ADMINISTRATION

UCOPIA Advance provides administration, configuration and supervision functions via a simple and intuitive Web interface. UCOPIA Advance in particular allows real time display of connected users and the applications in use.

**A statistical report of user sessions in PDF format can be generated automatically and periodically (daily, weekly, etc.). The report can be emailed to one or more recipients. (ex: total number of sessions, average duration of sessions etc).**

## ZERO CONFIGURATION MOBILE ACCESS

**User workstations are not always configured appropriately to connect to the access network.**

UCOPIA Advance allows users to connect and access network resources with no prior workstation configuration or installation, and with no need for technical support. IP addressing, internet proxies, email, printing, etc. are all handled automatically. User experience is greatly increased and technical support work reduced to a minimum.

## DEPLOYMENT OVER MULTIPLE SITES

In a multi-site environment, mobile users need to be given a profile adapted to the connection environment. UCOPIA Advance allows you to automatically adapt the user's profile according to different criteria: the connection location (site, zone), the connection time, or the Advance appliance through which the remote mobile user is connecting.

## MANAGING ZONES

**UCOPIA Advance allows you to define zones: for example the reception and office areas within a business, the lobby and rooms in a hotel.** Depending upon the zone to which the user connects, UCOPIA Advance provides a tailor-made authentication portal: free or chargeable, with or without time credit. The administrator can also decide to block access to certain zones, for example preventing guests from connecting to the office zone. A zone is associated with one or several VLANs.

## SCALABILITY

UCOPIA Advance is an independent solution for Wi-Fi equipment that will flexibly adapt to any eventual changes in network and hardware architecture.

## HIGH AVAILABILITY

UCOPIA Advance provides a redundancy and load distribution mechanism by implementing two or more UCOPIA Advance appliances. This guarantees availability of the solution in the event of a server failing. Furthermore, the load distribution between appliances allows you to respond to the requirements of any increase in load.

## MOBILE APPLICATION

The aim of the UCOPIA mobile app is to simplify the user journey and the connection to a UCOPIA network, but it also enables the delegate administrator to create user accounts easily.

These accounts can indeed be created directly from a Smartphone directory and the logins can be sent to the users from the Smartphone via SMS or email.

The app can be personalized with the client's graphic charter (logo, colors, text, advertising, etc...). The UCOPIA app is free and available in both English and French.

## THE UCOPIA ADVANCE SOLUTION

License	Advance 150	Advance 250	Advance 500	Advance 1 000	Advance 2 000	Advance 5 000	Advance 10 000	Advance 20 000	Advance 50 000	Advance 100 000	
APPLI- ANCE	UCP-US2000 / UCP-UV2000-VM										
	UCP-US5000 / UCP-UV5000-VM										
	UCP-US10000 / UCP-UV10000-VM								Servers Cluster		
	UCP-US20000									Servers Cluster	

# FEATURES

SECURITY	<ul style="list-style-type: none"> <li>• Authentication (Web captive portal - 802.1x/PEAP - 802.1x/TTLS - Fixed MAC address or IP address - Automatic @MAC address authentication - Shibboleth - Seamless periodic reauthentication) - 802.1x/TLS</li> <li>• Social media login</li> <li>• Redirection on corporate web portal</li> <li>• URLs filtering</li> <li>• Access permissions on basis of user profile</li> </ul>	<ul style="list-style-type: none"> <li>• Controller's incoming VLANs</li> <li>• Outgoing VLAN redirection on basis of user profile</li> <li>• WPA, 802.11i compliance</li> <li>• Ruckus DPSK</li> <li>• ARP spoofing protection</li> <li>• URLs available before authentication</li> <li>• Pre-authentication charter acceptance</li> </ul>	<ul style="list-style-type: none"> <li>• Private information charter acceptance</li> <li>• Connections traceability and logs (User sessions - Traffic (URL, applications) - Automatic logs backup via FTP(S) - Automatic logs compression - Logs rotate)</li> <li>• Password policies and audit logs</li> </ul>
MOBILITY	<ul style="list-style-type: none"> <li>• Zero configuration (DHCP/ fixed IP address - Seamless mail access - Seamless Internet Access (proxy) - Seamless printer access)</li> <li>• AirPrint compliant</li> <li>• VPN pass through</li> <li>• QoS (by service, by user)</li> <li>• Data volume management (quota)</li> </ul>	<ul style="list-style-type: none"> <li>• Time based access control (time slots &amp; time credit)</li> <li>• Location based access control (Localization on ingoing and outgoing zones)</li> <li>• Multi-portal (one portal per zone)</li> <li>• Mobile App (iPhone, Android, BlackBerry)</li> </ul>	<ul style="list-style-type: none"> <li>• iPass compliance</li> <li>• Device based access control (BYOD)</li> <li>• Conditional &amp; adaptative profile</li> </ul>
ADMINISTRATION	<ul style="list-style-type: none"> <li>• Security and mobility policies administration</li> <li>• License per zone and/or user profile</li> <li>• Guest hosting and provisioning (SMS, email, form, ticket printing)</li> <li>• User account exportation via CSV</li> <li>• Delegated provisioning (Customization - Multi zones - Connection ticket printing (or sending by SMS or email) - Bulk accounts creation from a CSV file)</li> </ul>	<ul style="list-style-type: none"> <li>• Monitoring of connected users</li> <li>• Customizable reporting (PDF), sent automatically by email and/or FTP</li> <li>• Statistics (Predefined graphs - CSV export)</li> <li>• Sponsoring via email</li> <li>• Account refill</li> </ul>	<ul style="list-style-type: none"> <li>• Customizable web portal</li> <li>• Customizable connection ticket</li> <li>• SNMP - MIB II</li> <li>• Syslog</li> <li>• CLI - Physical administration port (US5000, US10000, US20000)</li> </ul>
BILLING	<ul style="list-style-type: none"> <li>• Online payment (credit card, PayPal, Ingenico Payment Services)</li> <li>• PMS connector</li> </ul>	<ul style="list-style-type: none"> <li>• PPS connector</li> </ul>	<ul style="list-style-type: none"> <li>• AAA third party solutions integration (accounting)</li> </ul>
INTEGRATION	<ul style="list-style-type: none"> <li>• Integration with a corporate LDAP directory (OpenLDAP, ActiveDirectory)</li> <li>• Web proxy integration</li> </ul>	<ul style="list-style-type: none"> <li>• API for third party tool integration</li> <li>• Integration with RADIUS (proxy)</li> <li>• PKI Integration</li> </ul>	<ul style="list-style-type: none"> <li>• Directory cascading</li> <li>• Integration with multi-directories</li> </ul>
ARCHITECTURE	<ul style="list-style-type: none"> <li>• DHCP server (IN), DHCP client (OUT)</li> <li>• DNS server, relay</li> <li>• NAT</li> <li>• Routing</li> </ul>	<ul style="list-style-type: none"> <li>• Customized NAT based on user profile</li> <li>• Wired connections</li> <li>• Multi-controller master</li> <li>• Multi-controller slave</li> <li>• High availability</li> </ul>	<ul style="list-style-type: none"> <li>• Redundancy</li> <li>• Load balancing</li> <li>• Virtual appliance</li> </ul>

UCOPIA has 2 products lines, available in physical and virtual forms: **Express and Advance**

### PHYSICAL PRODUCT LINE



#### UCOPIA EXPRESS

#### UCOPIA ADVANCE

	Server 250 (UCP-US250)	Server 2 000 (UCP-US2000)	Server 5 000 (UCP-US5000-RDP)	Server 10 000 (UCP-US10000-RDP)	Server 20 000 (UCP-US20000-RDP)
LICENSE	Express 5 to 250	Express 5 to 2000 Advance 150 to 2000	Advance 150 to 5 000	Advance 150 to 10 000	Advance 150 to 20 000
FORMAT	1,2 U Appliance (2U rack option)	1U Rack 19"	2U Rack 19"	2U Rack 19"	2U Rack 19"
MEMORY	2 GB	8 GB	16 GB	32 GB	64 GB
HARD DRIVE	320 GB	1 TB	2TB (2 x 2 TB RAID1)	2.7 TB (4 x 900GB RAID5)	5.4 TB (8 x 900GB RAID6)
NETWORK	2 RJ45 (10/100/1000) 802.1q	2 RJ45 (10/100/1000) 802.1q	6+1 RJ45 (10/100/1000) 802.1q, 803.ad	8+1 RJ45 (10/100/1000) 802.1q, 803.ad	2 SFP 10Gbps +1 RJ45 (10/100/1000) 802.1q
DIMENSIONS	52 x 270 x 160 mm	44 x 430 x 500 mm	88 x 430 x 680 mm	88 x 438 x 732 mm	89 x 439 x 748 mm
POWER	60 W	250 W	650 W x2	750 W x2	1100 W x2
POWER SUPPLY	External	Internal	Hotplug (redundant) x2	Hotplug (redundant) x2	Hotplug (redundant) x2

### VIRTUAL PRODUCT LINE



#### UCOPIA EXPRESS

#### UCOPIA ADVANCE

	Server 250 (UCP-UV250-VM)	Server 2000 (UCP-UV2000-VM)	Server 5000 (UCP-UV5000-VM)	Server 10 000 (UCP-UV10000-VM)
UCOPIA LICENCE	Express 5 to 250 Advance 150 to 250	Express 5 to 2000 Advance 150 to 2000	Advance 150 to 5 000	Advance 150 to 10 000

For the online documentation, go to: <http://www.ucopia.com/en/solutions/faqs-virtual/>



**CONTACTUS@UCOPIA.COM**  
**WWW.UCOPIA.COM**

201, AVENUE PIERRE BROSOLETTTE 92120 MONTROUGE FRANCE - +33(0)1 40 92 73 90