UCOPIA
TURN YOUR WI-FI UP

UCOPIA EXPRESS

SOLUTION

UCOPIA EXPRESS

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 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.

UCOPIA Express is mainly aimed at small organisations (Hotels, SMB, Clinics, Schools, ...).

UCOPIA Express sits between a wired (Ethernet, DSLAM, CPL) or wireless (Wi-Fi) access network and the organisation's LAN.
All data streams from or to the user pass through the UCOPIA Express controller inorder to guarantee security and improve end user experience.

Based upon the model, UCOPIA Express is able to manage up to 1000 concurrent users.

Setting up UCOPIA Express is very quick thanks to its simple and user-friendly administration graphic interfaces.

WIRELESS LAN CONTROLLER

UCOPIA

FIREWALL / WALL

UCOPIA Express Licenses

EXPRESS 5 › 5 concurrent connections

EXPRESS 10 › 10 concurrent connections

EXPRESS 20 › 20 concurrent connections

EXPRESS 50 › 50 concurrent connections

EXPRESS 100 › 100 concurrent connections

EXPRESS 150 › 150 concurrent connections

EXPRESS 250 › 250 concurrent connections

EXPRESS 500 › 500 concurrent connections

EXPRESS 1000 › 1000 concurrent connections

EXPRESS 2000 › 2000 concurrent connections

SECURITY

USER AUTHENTIFICATION

UCOPIA Express incorporates a full server for authentication, which checks user identities.

It offers authentication by Web portal particularly suited to visitors through its ease of use.UCOPIA Express includes a RADIUS server to ensure a high level of security for employees.UCOPIA Express is able to interface with any type of directory (LDAP or Active Directory).

Administration of authentication policies is carried out very simply via a secure Web interface.

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 dated 24 March 2006).

UCOPIA Express meets this requirement by managing session logs (who was connected when?) and activity logs (who has done what?).

RIGOROUS MANAGEMENT OF ACCESS RIGHTS

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

CONFIDENTIALITY OF DATA

UCOPIA Express is compatible with the encryption mechanisms available at the access points (TKIP, AES) and standardised by the IEEE in 802.11i.

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.

MOBILITY MANAGEMENT

GUEST ACCESS

UCOPIA Express provides a solution to the issues of secure guest access and user account management.

A straight-forward and user-friendly login page enables visitors to use the wireless network. The page is entirely customizable by the internal administrator and can be setup in advance to follow branding guidelines. The customisable delegation feature can be used to define the delegate administrator's remit in advance. An authorised individual will be able to use UCOPIA Express to create a temporary account, and allocate a predefined profile to it with a time slot and/or time credit.

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 needed; users receive their connection settings via text message on their mobile phones or buy time credit on-line making payment by credit card.

ZERO CONFIGURATION MOBILE ACCESS

User laptops, tablets and smartphones are rarely pre-configured to automatically connect to the network. UCOPIA Express allows users to connect and access network resources with no prior configuration or installation, and with no need for technical support. IP adressing, internet proxies, email and more are thus handled automatically for all users.

UCOPIA Express offers a wide variety of options to meet user needs including single-click authentication to high-security sites and network authentication through social media like Facebook and Twitter. UCOPIA's zero-configuration mechanism facilitates access regardless of environment or configuration.

MANAGING ZONES

UCOPIA Express allows you to define zones: 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 Express 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.

STRAIGHT-FORWARD ADMINISTRATION

UCOPIA Express provides administration, configuration and supervision functions via a simple and intuitive Web interface.

UCOPIA Express in particular allows real time display of connected users and the applications in use.

THE UCOPIA EXPRESS SOLUTION IN BRIEF

The arrival of UCOPIA version 5.0 has doubled the software performances which allows for greater scalability at a more competitive price

	Licences (Concurrent connections)	Hardware	
THE UCOPIA EXPRESS SOLUTION	Express 5	UCP-US250 / UCP-UV250-VM	
	Express 10		
	Express 20		
	Express 50		
	Express 100		UCP-US2000 / UCP-UV2000-VM
	Express 150		
	Express 250		
	Express 500		
	Express 1 000		
	Express 2 000		

MOBILE APPLICATIONS

UCOPIA's mobile app has two purposes. The first, is to simplify the user experience and his/her network access. The second is to delegate some of the administrative authority by allowing simple user account creation. In this way, user accounts can be created directly from a smartphone contact list if desired and the connection details can be sent to the users by smartphone, SMS or email.

Available for free download in English and French, the UCOPIA application may also be customized to fit any brand requirements (logo, text, colors, etc.).

FEATURES

SECURITY

- 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
- Social media login
- Redirection on corporate web portal
- URLs filtering
- Access permissions on basis of user profile

- Controller's incoming VLANs
- Outgoing VLAN redirection on basis of user profile
- WPA, 802.11i compliance
- Ruckus DPSK
- ARP spoofing protection
- URLs available before authentication
- Pre-authentication charter acceptance

- Private information charter acceptance
- Connections traceability and logs (User sessions - Traffic (URL, applications) - Automatic logs backup via FTP(S) - Automatic logs compression - Logs rotate)
- Password policies and audit logs

MOBILITY

- Zero configuration (DHCP/ fixed IP address - Seamless mail access - Seamless Internet Access (proxy) - Seamless printer access)
- AirPrint compliant
- VPN pass through
- QoS (by service, by user)
- Data volume management (quota)

- Time based access control (time slots & time credit)
- Location based access control (Localization on ingoing and outgoing zones)
- Multi-portal (one portal per zone)
- Mobile App (iPhone, Android, BlackBerry)

- iPass compliance
- Device based access control (BYOD)
- Conditional & adaptative profile

ADMINISTRATION

- Security and mobility policies administration
- License per zone and/or user profile
- Guest hosting and provisioning (SMS, email, form, ticket printing)
- User account exportation via CSV
- Delegated provisioning (Customization - Multi zones - Connection ticket printing (or sending by SMS or email) - Bulk accounts creation from a CSV file)

- Monitoring of connected users
- Customizable reporting (PDF), sent automatically by email and/or FTP
- Statistics (Predefined graphs - CSV export)
- Sponsoring via email
- Account refill

- Customizable web portal
- Customizable connection ticket
- SNMP – MIB II
- Syslog
- CLI - Physical administration port (US5000, US10000, US20000)

BILLING

- Online payment (credit card, PayPal, Ingenico Payment Services)
- PMS connector

- PPS connector

- AAA third party solutions integration (accounting)

INTEGRATION

- Integration with a corporate LDAP directory (OpenLDAP, ActiveDirectory)
- Web proxy integration

- API for third party tool integration
- Integration with RADIUS (proxy)
- PKI Integration

- Directory cascading
- Integration with multi-directories

ARCHITECTURE

- DHCP server (IN), DHCP client (OUT)
- DNS server, relay
- NAT
- Routing

- Customized NAT based on user profile
- Wired connections
- Multi-controller master
- Multi-controller slave
- High availability

- Redundancy
- Load balancing
- Virtual appliance

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 900 RAID5)	5.4 TB (8 x 900 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 (redondant) x2	Hotplug (redondant) x2	Hotplug (redondant) x2

VIRTUAL PRODUCT LINE

vmware®

Microsoft Hyper-V

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 LICENSE	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://extranet.ucopia.com/vm-faq/en

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