## McLaren International – HSIA

Wired and Wireless Internet Management and Billing











# Who is McLaren?

The McLaren Group, headquartered out of Sydney, Australia, and Singapore is one of the Asia Pacific's leading providers of "Cloud" based SaaS technology products, solutions and services to the hospitality and related industries. McLaren International's customers span the worlds leading hotel companies including Hilton Hotels and Resorts, Accor Hospitality, Starwood Hotels and Resorts, Langham Hotels, the InterContinental Hotel Group, Hyatt Hotels and Resorts and Marriott International.

Further information - www.mclarenint.com



# Company Locations

### McLaren International Pty. Ltd

Suite3, Mezzanine Level, 210 George St Sydney NSW 2000, Australia **Phone:** +61 2 9251 4477

Fax: +61 2 8915 1358

### McLaren Technologies Asia Pacific Pte. Ltd

Asia Pacific Head Office

55 Tras Street, #03-01, Singapore 078994 **Phone:** +65 6549 7204

Fax: +65 6549 7001 www.mclarenint.com





### McLaren Support Centres - Singapore, Hong Kong and Dubai

### **China Representation**

**DOCOMO China Co. Ltd** 

Room 2001, Changfang International Plaza, No.555 Loushanguan Road, Changning District, Shanghai,200051

Flora Xu

Senior Manager

+86.21.3330 3111 Telephone

+86.21.3330 3233 Facsimile

flora@docomo-china.com.cn



### Facilities Management and Billing Solutions











Revenue Management and CRM Solutions





Internet Access and Billing Solutions













## McLaren Client Partners













































## Nomadix Overview

- Founded in 1998 Nomadix focus is public Internet access market solutions.
- Global Market Leader
  - 70,000+ NSE Installed in 60+ Countries
- Wholly owned subsidiary of DoCoMo interTouch
  - a provider of managed services for Hospitality industry.
  - Nomadix is organized as a Software company offering;
    - (NSE) Nomadix Software Engine.
    - Currently (3) Three gateway platforms powered by the Nomadix Software Engine for;
    - public Internet access networks,
    - visitor based networks and
    - metropolitan Wi-Fi Zones.
- Office Locations
  - Global Headquarters is Agoura Hills, California USA with additional offices in Europe and Asia.

## New Product Launch – NITO

## Nomadix Internet Traffic Optimizer – NITO [500/1500]



- Deep Packet Inspection / Reporting / Bandwidth Control
- 6 x Gigabit Ethernet Ports + Serial (RJ45) console port
- Stateful firewall based on "Smoothwall" open source firewall that can be configured between all ports
- Advanced web content filtering engine to block unwanted content.
- L7 packet inspection for P2P traffic suppression
- 800Mbps throughput
- Easy to use dashboard
- Advanced user activity logging and reporting functions
- Advanced traffic usage reporting functions
- User authentication against LDAP, AD, Radius and others



## New Product Launch – NITO Features

- 6 x Gigabit Ethernet Ports + Serial (RJ45) console port
- Flexible DHCP server
- IM proxy server content filtering of Instant Messaging
- Optional intrusion detection
- 1 + 1 High availability
- VPN concentrator for LAN to LAN or remote users
  - SSL, IPSEC, L2TP and PPTP
- Optional email anti spam and anti malware filters
- Web proxy server
- Transparent proxy server
- Web traffic filtering and anti malware
- Policy and time based usage quotas
- WAN load balancing
- WAN failover detection (ICMP ping based)
- Different administrative user rights



## *New* Product Launch – AG5800

### Nomadix AG5800



- Runs NSE 8.0 or above software
- 6 x Gigabit Ethernet ports
- Serial Console Port (RJ45)
- Serial PMS port (DB9)
- Full Gigabit throughput / High Performance
- □ NSE 8.0 ---- 5 x LAN, 1 X WAN configuration
- NSE 8.2 ----- Multiple WAN configuration with WAN load balancing and failover capability
- Scalable User licenses of 250, 500, 1000, 1500, 2000, 3000 4000 users
- Based on Intel 'SandyBridge" 13 processor



## New Product Launch – NITO/AG5800

## □ Powerful Combination – NITO + Nomadix

Combining a Internet Nomadix gateway, such as the AG5800, AG5800 \_\_\_ with the NITO allows for application based tiered offering. A Combined application and bandwidth tiered offering creates a NITO compelling upsell opportunity for the hotel



## New Product Launch – Wireless GW

## Wireless Connect Gateway

- Replacement for AG2100 wireless gateway
- Integrated Gateway and onboard Wireless Access Point
- □ 1 x WAN port and 4 x LAN port (10/100 Mps)
- LAN port can support wired connections or additional 3<sup>rd</sup> party wireless AP to extend wireless coverage
- □ On board 2.4GHz 802.11 b/g/n (2T+3R) wireless radio
- Gateway supports up to 200 concurrent users
- Internal or external captive portal
- Internal or external (radius based) user authentication



# Nomadix NSE software

- Release timelines for new NSE software
- NSE 8.X uses latest VxWorks RTOS
- NSE 7.4 will be maintained until Dec 2012

Software Version	C	Q2 2011	C	23 202	l1	(	201	12	C	3 201	2	C	(3 201	.2	C	4 201	12	Q	1 201	.3	C	(2 201	13
	Jul	Aug Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
NSE 7.2 GA																							
NSE 7.3 Beta																							
NSE 7.3 GA																							
NSE 7.4 Beta																							
NSE 7.4 GA																							
NSE 8.0 Beta																							
NSE 8.0 GA																							
NSE 8.1 Beta																							
NSE 8.1 GA																							
NSE 8.2 Beta																							
NSE 8.2 GA																							
NSE 8.3 Beta																							
NSE 8.4 GA																							



## **Nomadix Datasheets**

AG2300

AG3100

AG5600

INTELLIGENT PERFORMANCE FOR LARGE VENUES











CAPABILITIES, SIMPLIFIED ACCESS FOR SOHOS

#### ESTABLISHED. DEDICATED PUBLIC ACCESS FOR SMBs

#### Nomadix AG2300 Access Gateway

The Nomadix AG2300 brings high end features of Nomadix renowned intelligent public access to SOHOs desiring to offer High Speed Internet Access (HSIA) as a value added service to their customers

Based on the same leading Nomadix Service EngineTM (NSE) Core Software, its price per performance is of high value for venues requiring up to 50 simultaneous connections.



#### NOMADIX PATENTED TRUE PLUG AND PLAY FOR SUPERIOR CUSTOMER EXPERIENCE

Browser and device agnostic, the AG2300 ensures access for all user devices, be it Smartphones, Netbooks, iPads or laptops. Simplified connectivity with zero configuration required reduces the need for technical support and provisioning costs by business owners. Nomadix patented Dynamic Address Translation™ (DAT) technology and dynamic transparent proxy technologies gets users connected to the Internet easily and fast.

#### ENHANCED FEATURES, MAXIMIZE BRANDING

The suite of features built into the AG2300 includes delivery of local content, bandwidth management, maximization of revenue beyond connectivity charges - all designed and selected to help SOHO business operators obtain optimal value. With Nomadix patented Home Page Redirection, business owners reinforce their business brand every time a user logs onto the Internet.

- Dynamic Address
- · Dynamic Transparent Proxy
- · Bandwidth management QoS Tagging
- Support
- · Home/Portal page

#### Nomadix AG3100 Access Gateway

The mid-range public access gateway solution provides options for SMEs which require higher simultaneous user connections of up to 200 users at an improved throughput.

Based on the same leading Nomadix Service Engine (NSE) Core Software, the AG3100 is a dedicated network appliance placed at the edge of the network providing universal mobile connectivity, security and policy-based shaping for the subscriber.

### FAST AUTHENTICATION AND SECURE ACCESS

Supporting multiple authentication models allow users to connect to the Internet securely and quickly, and help business operators prevent unauthorized network access. With the Remember Me function, it stores encrypted login cookies to create better user experience for repeat visits.

### ENHANCED FEATURES, ADDITIONAL REVENUE

The suite of features built into the AG3100 includes delivery of local content, bandwidth management, maximization of revenue beyond connectivity charges - all designed and selected to help SMB business operators obtain optimal value. With the walled garden feature, business operators are able to gain incremental revenues for e-commerce sites, applications, and advertisements before the user purchases access.

- TriMode authentication with IEEE 802.1x, UAM via SSL and Smart Client
- Remember Me Log-in
- . Randwidth managemen
  - · Traffic shaping
  - International Language Support · Home/Portal page
  - · Walled garden

#### Nomadix AG5600 Access Gateway

The AG5600 is a high performance network appliance enabled with GigE throughput capability for deployment in large venues including hotels, airports, convention centers and municipal Hotzones.

Built upon the proven Nomadix Service Engine (NSE) Core Software, the AG5600 is a high end access gateway offering a full suite of intelligent and secure solutions for businesses needing to support thousands of simultaneous users.



#### SCALABILITY WITH GIGE PERFORMANCE

As a high performance access gateway, the AG5600 comes with GigE throughput, advanced bandwidth management capability and offers a Metro Expansion Bundle which will allow the gateway to support up to 4,000 simultaneous users. The AG5600 is also a platform of choice for many third party application developers, your investment in the access gateway is

#### INTELLIGENT ROAMING INNOVATION

With Nomadix intelligent Zone Migration, users no longer have to go through repetitive re-authentication process while roaming between hotspot zones within a network. On top of that, the AG5600 provides the added advantage for users to maintain one billing account with their service provider while roaming between networks.

Metro Expansion Bundle

5

- Hospitality Module · GigE throughput
- Zone Migration
- · Realm Based Routing



# NSE – Intelligent Service Creation Platform

### **Field-Proven Patented Technology**

TCP/IP Packet Processing Software Runs on Leading Real-Time Embedded OS Stable & Reliable: 50K+ Installed Base Interoperable with Leading WLAN and Mesh Solutions

### **Modular Architecture**

Broad Applications: Hotspots, Hospitality, Metros Scalable: Small to Large Networks

Tailor Service to Demand

### **Superior Value Proposition**

Rich User Experience with "Network Plug & Play" Contextualized Content & Adverts.

Edge Based Policy, QoS, Bandwidth Throttling Authorization and Billing

Centralized Network Management Holistic Security: User and Network







# When is Nomadix required?

IP Plug and Play

Easy Connectivity

- End User Authentication
  - Triple Mode Authentication
    - UAM, Smart Clients and 802.1x
- Device Authentication

Mac Based

- ✓ WiFi Phones,
- WiFi/GSM phones,
- ✓ Nintendo, Playstation, Wii
- ✓ CTV, IP Camera's

Billing

PMS-Credit Card-Radius-XML

- End User Traffic Shaping
- Session Rate Limitation/User
- Location Based Information

802.1q VLAN Support

Bandwidth/User

- Secure Hot-Spot Management
- No Proprietary System RFC standards



# Nomadix Market Segments

### **Hotels**



**Stadiums** 





**Enterprises** 



**Train Stations** 



**Cruise Ships** 



**Cities** 



**Education Centers** 



**Airports** 



Campgrounds & Marinas



**Telecom** 



**Airlines** 



**Truck Stops** 



Cafés & Restaurants



Gas **Stations** 





# Nomadix Network - Plug and Play

- □ Patented Dynamic Address Translation<sup>™</sup>
  - No re-configuration of Client system Required
- Proxy Support
  - Support for HTTP and HTTPS browser proxy settings
- DHCP Support
  - Server and Relay Support conforming to RFC's
- □ Patented iNAT™
  - VPN, IPSec, PPTP support without requiring a large list of public addresses
- ¬ SMTP redirect
  - Redirect outbound mail for client even if server is unreachable



# Nomadix - Key Functions & Features

### Internal Basic Web Portal

Default login page with basic modifications available

### Portal Redirection

- Redirection to an external server for complete Branded experience
  - Freedom Internet explained later in this presentation.
- Parameters sent to the Portal can be used for Location aware branding

### Universal Access Method (UAM)

- Support for Standard Browser login
- Simultaneous Support for UAM, 802.1x, and Smart Client

### XML support

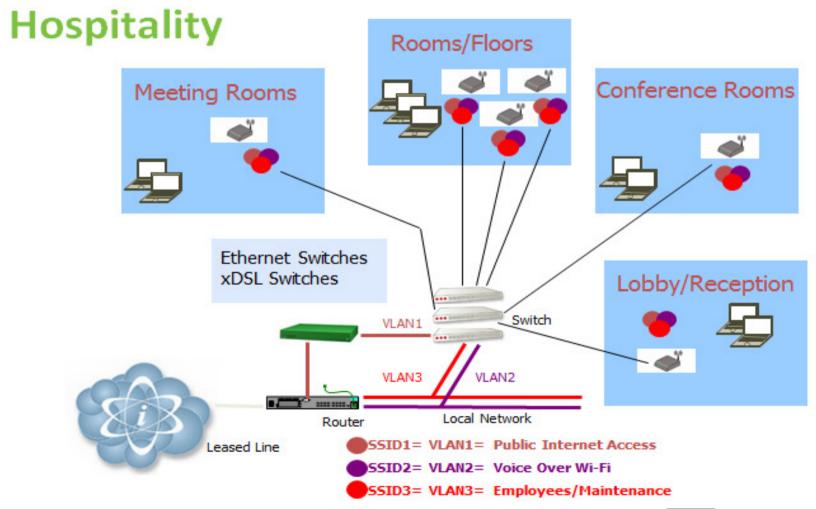
XML API can be utlized by the Portal to control Subscriber Authentication on the NSE

### Smart Client Support

Support GIS standard clients & IPASS, Boingo, GRIC

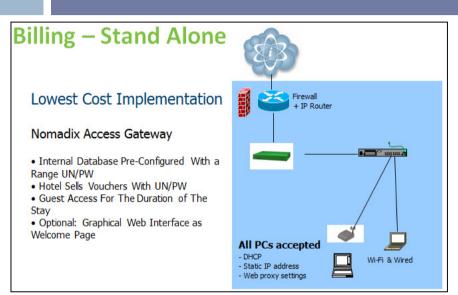


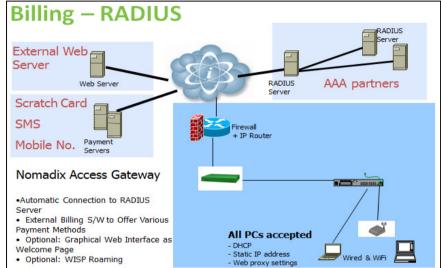
# Nomadix Hospitality Solutions

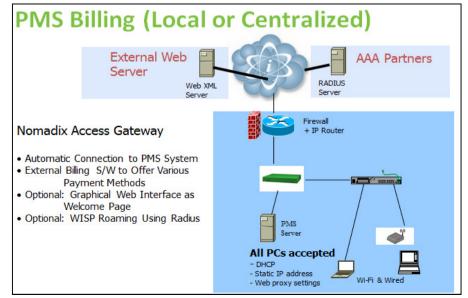




# Nomadix Billing Solutions





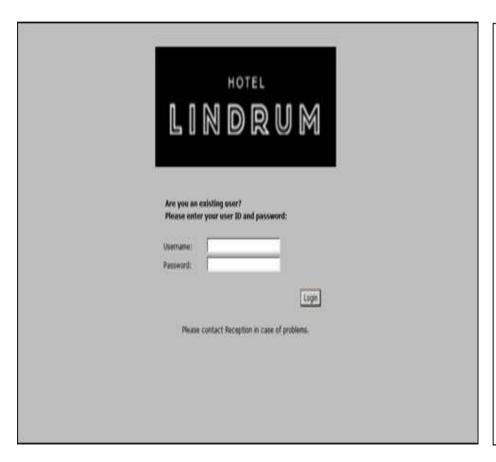




- Wired and/or Wireless Hotel Branded HSIA Web Portals [Advertising and selected Plug-ins available]
- Logins/Sign-up for New Guests, Existing Guests [HotSpot Manager], Group Accounts [Conference] and Member Accounts [Radius Roaming]
- Plans Per time unit / IP Type / Bandwidth UP and DOWN /
   Data Usage [BW / Data capping and shaping available]
- Integration with Nomadix Platforms, Lavacube Radius and Credit Card Payment Gateways
- Billing to PMS via Post Only or Query & Post
- Online Check Usage Portal for Individual and Group Accounts
- Online Individual and Group Account re-charge for all plans
- Payment Receipts and Charge Reports available via email
- Walled Garden Websites
- Customisations & Development requests welcome!



## Standard Nomadix pages – Wired/Wireless



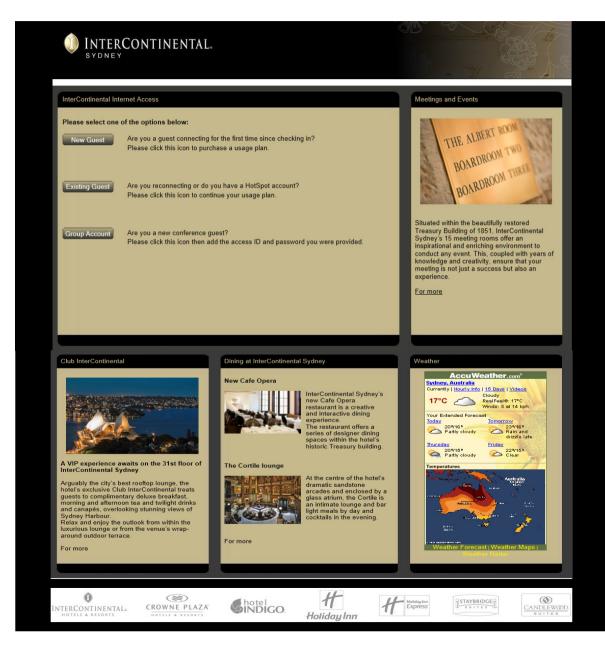




## Roaming Member Accounts/Guests/Casual Users

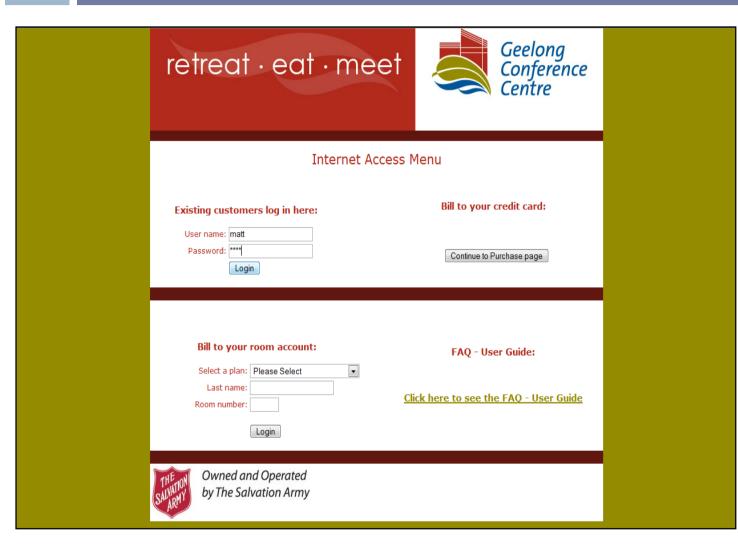
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please log in:		user guide:		log out here:				
	ogin	Click here to see the You must be a RACV Club Memb	per to use this servic					
lember Services mergency Roadside Assistance rive School ehicle Inspections hild Safety ehicle Safety ree2go	Insurance Home & Contents Car Boat Insurance Caravan & Trailer Travel Business Farm	Travel Car Hire Theme Parks & Attraction Tickets International Driving Permits	Security Home Business Monitoring & Patrols	Finance Car & Personal Loans Investments Salary Packaging DSPack	Club			





- Hotel Branding and Advertising for Hotel Restaurants and Facilities
- Wired and/or Wireless
- New Guests/Existing Guests via HSM and Group Accounts for Conferences
- Billing to PMS via 'Query and Post'
- Weather Widgit





- Hotel Branding and FAQ – User Guide
- Wired and/or Wireless
- Credit Card
   Billing to Hotel
   Merchant
   Account
- New Guests/ Existing Guests via HSM and Group Accounts for Conferences
- Billing to PMS via 'Query and Post'



### HAYMAN

#### **Internet Access Options**

PLEASE SELECT ONE OF THE OPTIONS BELOW:

In Room

Would you like High Speed Internet access? Please click to purchase a usage plan.

HotSpot

Do you have a HotSpot account? Please click this icon and enter your details.

Free

For limited speed free Internet access Please click here.

#### **Hayman Moments**



Hayman Moments bring together authentic luxury, natural beauty and personalised experiences to create lifetime memories and family traditions.

Contact Concierge on extension 2 for enquiries and bookings.

- Hotel Branding and Hotel Services
- Pure Wireless Environment
- New Guests/ Existing Guests via HSM and FREE limited Access
- Billing to PMS via 'Query and Post'

#### Hayman Dining



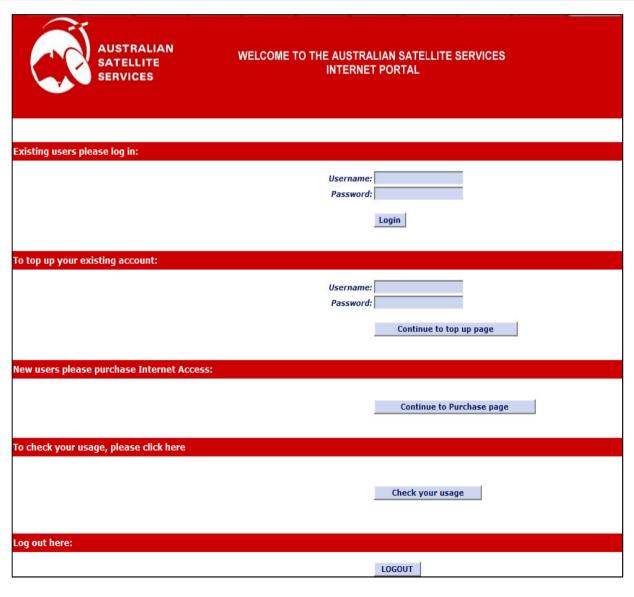
Hayman Leisure



Hayman Residences







- Branded Centralised HSIA Portal for the Mining Community
- Individual and Corporate Group Accounts
- Re-charge options for all plans
- Credit Card Billing to Merchant Account
- Online Check Usage for Individual and Group Accounts





### **Guest High Speed Internet Access**

Please choose the bill plan you would prefer and click on the "next" button:

\$6 - Internet Charges for 30 Minutes ▼



Or enter an Access Code:

Access Code:



#### **CLICK HERE FOR FULL TERMS & CONDITIONS**

Internet Charges are in SGD, all published Internet Rates are BEFORE taxes.

By clicking on "NEXT" you are agreeing to the Terms & Conditions of Park Regis Singapore's Broadband Internet Access Agreement

### Click below links for free access

http://www.parkregishotels.com/ http://www.staywellgroup.com/ http://www.staywellrewards.com/ http://www.yoursingapore.com/ http://www.channelnewsasia.com/ http://www.parkregissingapore.com/



For assistance, press
"Reception" on your phone
keypad

- Hotel Branding /Wall Garden
   Websites and T&C's URL
- Wired and/or Wireless
- Billing to PMS
- Plans per time unit and BW Up/Down
- Nomadix Zone Migration [Free and Charged Access]

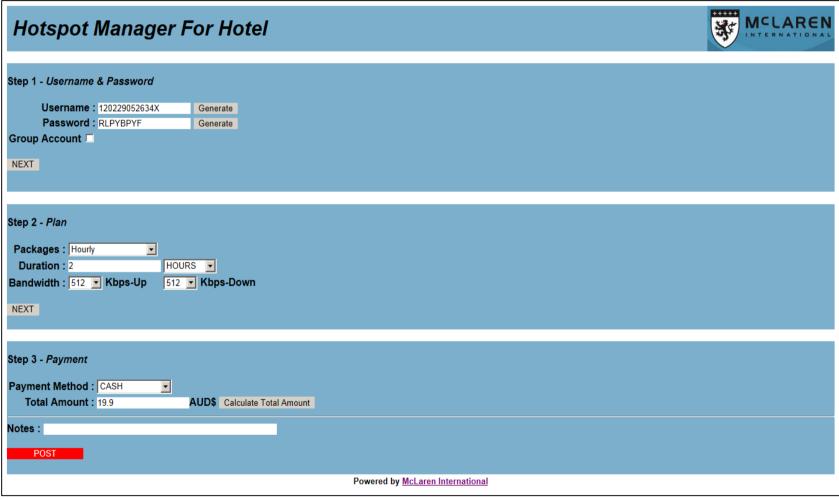




The McLaren Hotspot Manager [HSM-WEB] integrates with ALL Nomadix Gateways to provide instant Profile creation and Management. Accessible via any Web Browser, the profiles contain a username, secure password and a range of user and property defined features. Once created the HSM-WEB adds these profiles in real-time to the Nomadix database. Confirmation slips are printed and also made available via Email and SMS [optional].

- Unlimited Web Clients
- Individual and Group Account creation. Pre-defined and random profiles
- Pre-defined packages for standard and X/Y plans
- Plans Per time unit / IP Type / Bandwidth UP and DOWN
- Billing to PMS Room Folios
- Previous days posting report scheduled for sending to email accounts
- Scheduled purging procedure for Nomadix profiles
- View current live users on Nomadix
- High Availability support for Nomadix





Web Based HotSpot Manager Software





Hotel Branding and Colours



## Printable Payment Slip

PLAN	WIRELESS LOGIN	I DETAILS  BILLING	
Username :	120228103547M	Payment Method :	CASH
Password :	PLMAACJL	Room No :	0/1011
Duration :	2 HOURS	Total Amount :	AUD\$ 19.90
Bandwidth (kbps):	512u / 512d	Notes :	
Max Concurrent Login :	1		
	Wireless SSID : HOTE	ELWIRELSS1	
	Powered by McLaren	International	
	Towered by McCaren	mematona	

\* 80 mm Slip Printer format available





- LavaCube is Unix based Subscriber Management Tool
- Integrated with a powerful database and a commercial version of radius server; it is a total subscriber management tool for any public access network
- Takes care of the AAA of the public access network
  - Authentication
  - Authorisation
  - Account

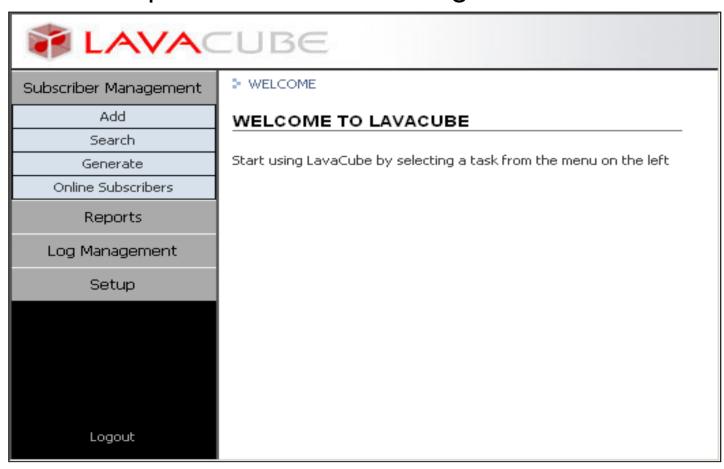




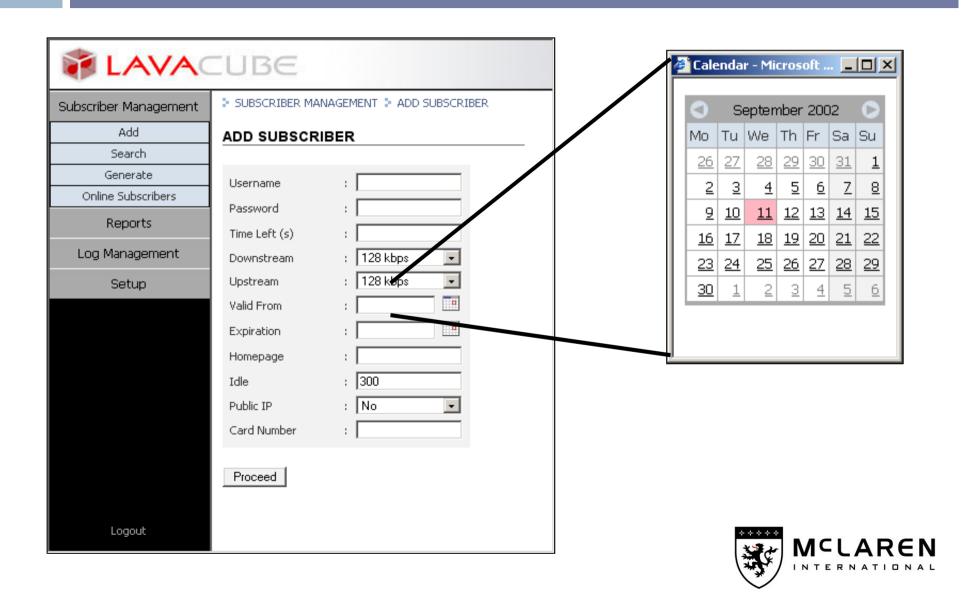
- Shipped standard with 3 Powerful Features
  - Subscriber Management
  - Reports
  - Log Management
  - Interfaces with visitor based network device (VBN) to provide the best solution for public access network operator
  - Built-in standard interface with Nomadix
  - Capable of handling Post Paid / Pre Paid / Hybrid Payment Mode
  - Interface with 3rd party Credit Card payment gateway



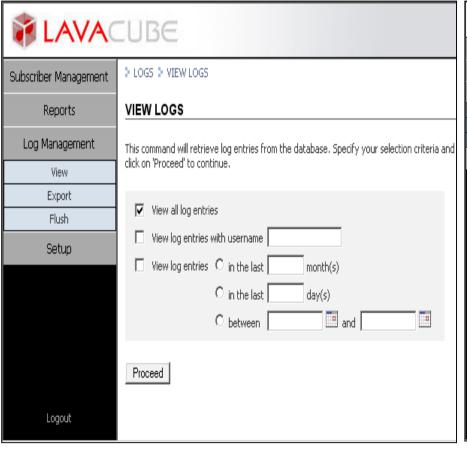
### Simple Centralised Management







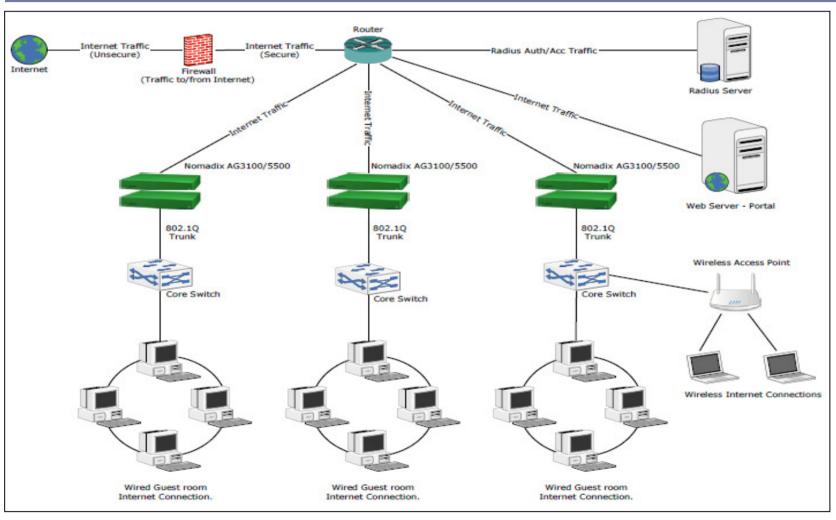
## **Extensive Detailed Reporting**







## Nomadix / Lavacube / HSIA Web Portal



Network and System Interconnectivity



# Teleadapt Connectivity Solutions

Technology is an important part of our daily lives. Today's guest travels armed with a multitude of devices that require Internet and media connectivity and available power outlets for recharging.

TeleAdapt focuses on how guests connect to the guestroom, and delivers unique products designed to improve the guest experience. Working closely with consumer technology manufacturers and hoteliers, we are able to provide user-friendly connectivity solutions that are aesthetically pleasing and enhance the guestroom technology amenity.



guestroom connectivity



# Teleadapt Connectivity Solutions



The MediaHub HD

The only connectivity panel with Stereo Bluetooth® wireless technology... guests can stream their music through the in-room TV from anywhere in the room.





- The MediaHub Series
- The Pull-Through Series
- DeskPoint Solutions



# McLaren International – HSIA

# Thank you!

www.mclarenint.com

