

• Information Technology Resources
UNIVERSITY OF TASMANIA

Internet Management System (IMS)

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Information Technology Resources
UNIVERSITY OF TASMANIA



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- Selection Process
- Design overview
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Internet Management System

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Background/Overview

What is it?

- Internet Authentication
- Internet Monitoring
- Internet Control

Why do we need it?

- Internet costs
- Flexible, open access to the Internet
- Audit trail

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Selection Process

Guiding Principles:

- Encourage Research & Education use of the Internet.
- Improve ease of access to the Internet
- Increase user awareness of the impact of Internet use

Key Tender Requirements:

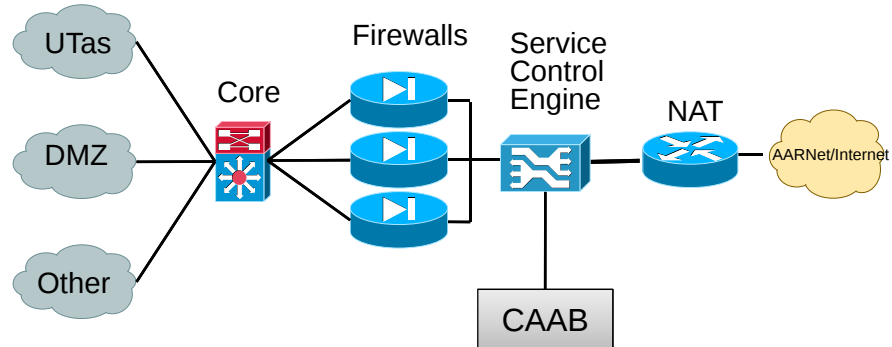
- All Internet traffic (not just proxy)
- Single Sign On
- Future Voice Billing requirements
- Auditing/Reporting requirements

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Design Overview 1/2

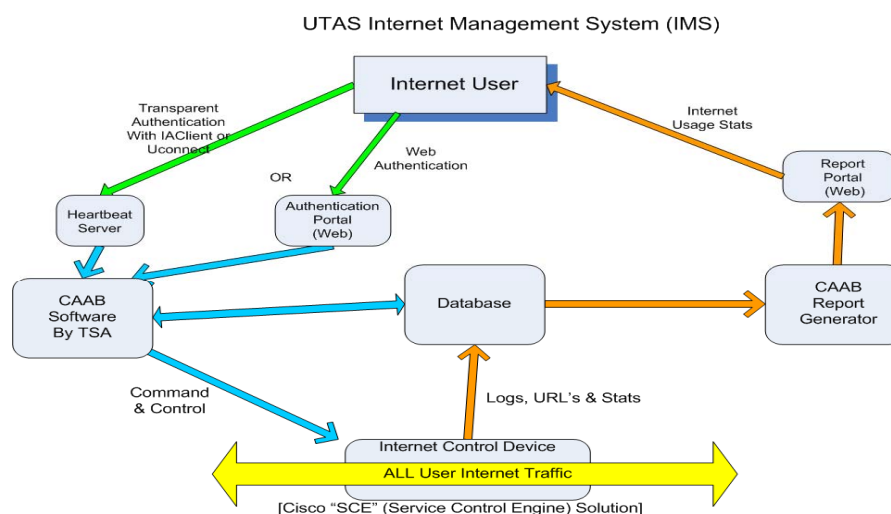


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Design Overview 2/2



Authentication Methods

- IA Client
 - Windows, Macintosh, Linux
- 802.1x
 - UCONNECT Wired/Wireless
- Web page
 - Redirection – pop up window
 - Submit IP address of alternate device
- API
 - Third party device to check user's access

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Reporting

- Pivot Table
- Web reports
- Email to users
- Email to Head of School/Department

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Information Technology Resources		UNIVERSITY OF TASMANIA				
1 Downstream Volume In Bytes		Column Labels				
2 Row Labels		Off-Net Domestic	Off-Net International	On-Net Domestic	On-Net International	Peering
3 Accommodation Services		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
4 AMC Search		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
5 Antarctic Climate and Ecosystems CRC		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
6 Asset Management Services		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
7 Australian Maritime College		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
8 Australian Maritime College		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
9 Central Science Laboratory		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
10 Centre for Advancement of Learning and Teaching		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
11 Centre for Environment		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
12 Centre for Marine Science		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
13 Centre for Marine Science		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
14 Centre for One Deposit Research		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
15 Charges not allocated to any Department		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
16 Communications Technologies		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
17 Conservatorium of Music		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
18 Cradle Coast Campus		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
19 Cradle Coast Campus		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
20 CRC for Forestry		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
21 Cultural Activities		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
22 Cultural Activities		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
23 Data Communications		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
24 Department of Rural Health		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
25 Deputy Vice-Chancellor's Division		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
26 Development & Alumni		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
27 Development and Alumni		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
28 Division of Finance and Administration		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
29 English Language Centre		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
30 English Language Centre		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
31 Faculty of Arts		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
32 Faculty of Business		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
33 Faculty of Health Science		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
34 Faculty of Law		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
35 Faculty of Science, Engineering and Technology		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
36 Financial Services		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
37 Governance and Legal		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
38 Human Resources		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
39 IASOS		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
40 IASOS		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000

Information Technology Resources		UNIVERSITY OF TASMANIA				
1 Row Labels		Downstream Volume In Bytes				
2 10.0.0.0		29,634				
3 10.0.0.0		29,634				
4 10.0.0.0		207,560				
5 10.0.0.0		207,560				
6 Generic Non-Established TCP		207,560				
7 HTTP Browsing		207,560				
8 10.0.0.0		2,618,663,461				
9 10.0.0.0		12,267,973				
10 10.0.0.0		12,267,973				
11 Generic Non-Established TCP		32,010				
12 HTTP Browsing		11,473,911				
13 https		762,052				
14 10.0.0.0		1,434,078,655,756				
15 10.0.0.0		1,454,720,819,709				
16 10.0.0.0		5,450,398,345				
17 10.0.0.0		1,750,209				
18 Generic Non-Established TCP		20,012				
19 HTTP Browsing		1,683,034				
20 https		47,163				
21 10.0.0.0		11,968,106				
22 Generic Non-Established TCP		399				
23 HTTP Browsing		590,131				
24 https		10,413,528				
25 iTunes		964,048				
26 10.0.0.0		2,824,716				
27 Flash		493,629				
28 Generic Non-Established TCP		23,717				
29 HTTP Browsing		2,045,072				
30 https		262,298				
31 10.0.0.0		333,004,930				
32 Binary over HTTP		327,503,376				
33 Generic Non-Established TCP		8,900				
34 HTTP Browsing		5,350,448				
35 https		140,206				
36 10.0.0.0		1,392,329				
37 HTTP Browsing		252,997				
38 https		18,679				
39 iTunes		1,120,657				

Information Technology Resources

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Information Technology Resources

Management Reports

- Home
- Web Reports
 - Departmental Usage Statistics
 - Download Usage Statistics (Administration)
 - Detailed Usage Statistics
 - Download Statistics (Administrative)
 - Internet Usage Report by Department
 - Financial Statistics
 - Staff Usage by Department

Welcome to Management Reports

Topic: UTAS

Company: University of Tasmania

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	Off-Net Domestic	Off-Net International	On-Net Domestic	On-Net International	Peering	Total
Accommodation Services	0.00	0.00	0.00		0.00	0.00
AMC Search	0.00	0.00	0.01	0.00	0.00	0.01
Australian Maritime College	0.00	0.00	0.15	0.00	0.00	0.15
Central Science Laboratory		0.00				0.00
Centre for Advancement of Learning and Teaching	0.00	0.00	0.00	0.00	0.00	0.00
Centre for Ore Deposit Research		0.00	0.00			0.00
Charges not allocated to any Department	17.14	17.14	180.39	0.00	10.01	224.68
Communications Technologies	0.00	0.00	0.00		0.00	0.00
Cradle Coast Campus	0.00				0.00	0.00
Development and Alumni	0.00	0.00	0.00			0.00
English Language Centre	0.00	0.00	0.00	0.00	0.00	0.00
Faculty of Health Science	0.00	0.00	0.00		0.00	0.00
Financial Services		0.00	0.00		0.00	0.00
Institute for Marine and Antarctic Studies	0.00	0.00		0.00		0.00
International Services	0.00	0.00				0.00
IT Resources	0.13	0.40	0.04	0.01	0.40	1.00
Library	0.01	0.00	0.00		0.00	0.01
Menzies Research Institute	0.00	0.00	0.00		0.01	0.01
Nat Centre for Marine Conservation & Resource Sustainability	0.00	0.00	0.00	0.00	0.01	0.01
National Centre for Maritime Engineering and Hydrodynamics	0.00	0.00	0.00		0.01	0.01
National Centre for Ports and Shipping	0.00	0.01	0.00	0.00	0.00	0.01
Pro Vice-Chancellor (Research) Division	0.00	0.00	0.00	0.00	0.00	0.00
School of Agricultural Science	0.00	0.00	0.00		0.00	0.00
School of Architecture and Design	0.01	0.00	0.00		0.00	0.01

 Internet Usage Report Detailed Usage Statistics Reporting Period: 07 Jun 2010 to 07 Jun 2010 Selected Department: All			
Top Sites by Role			
Role	Rank	Site	% of Traffic
Non-Uni Member	1	www.utas.edu.au	0.58%
	2	www.utas.edu.au	0.43%
	3	www.utas.edu.au	0.18%
	4	www.utas.edu.au	0.18%
	5	www.utas.edu.au	0.17%
Not Specified	1	www.utas.edu.au	1.44%
	2	www.utas.edu.au	0.84%
	3	www.utas.edu.au	0.63%
	4	www.utas.edu.au	0.61%
	5	www.utas.edu.au	0.47%
Staff	1	www.utas.edu.au	18.80%
	2	www.utas.edu.au	10.11%
	3	www.utas.edu.au	3.91%
	4	www.utas.edu.au	3.80%
	5	www.utas.edu.au	2.46%
Student	1	www.utas.edu.au	8.06%
	2	www.utas.edu.au	4.03%
	3	www.utas.edu.au	3.49%
	4	www.utas.edu.au	3.30%
	5	www.utas.edu.au	2.19%

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Information Technology Resources

Internet Management System (IMS)

Welcome to the UTAS Internet Management System.

The IMS allows the university to allocate internet traffic to specific users and departments and to monitor the rate and type of internet usage at the university. Only computers that have an active IMS session are permitted to access the internet.

Please enter your username and password to activate a session on this computer:

Login

User Name:
Password:

Please contact the Service Desk on x1010 or via email Service.Desk@utas.edu.au if you have any difficulties or questions re accessing the Internet.

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UTAS Information Technology Resources

Internet Management System (IMS)

You have successfully logged on to the Internet Management System.
All Internet access is monitored

Use of the Internet must be legal, ethical and appropriate. Refer to the [University's policy on ICT usage](#)

Continue...

to continue to your original request.

Your session

A pop-up "keep-alive" window is required to keep your internet session active. If you have closed this window or the window failed to start, [relaunch the "keep-alive" window](#).

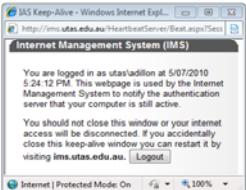
You can view your sessions and usage statistics at the [Session Management Page](#).

Getting access

A Macintosh OSX client is available to authenticate you to the Internet Management System at login - download the Internet Authentication Client (iaclient).

Macintosh and Windows clients using UConnect-wireless are signed in automatically and do not need the iaclient. Windows users on the UTAS Active Directory will automatically have the client installed.

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Internet Management System (IMS)

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Current Session
 Username: utas\adillon
 User Role: Staff (IT Resources)
 Workstation: sclis-sln-21639.its.utas.edu.au

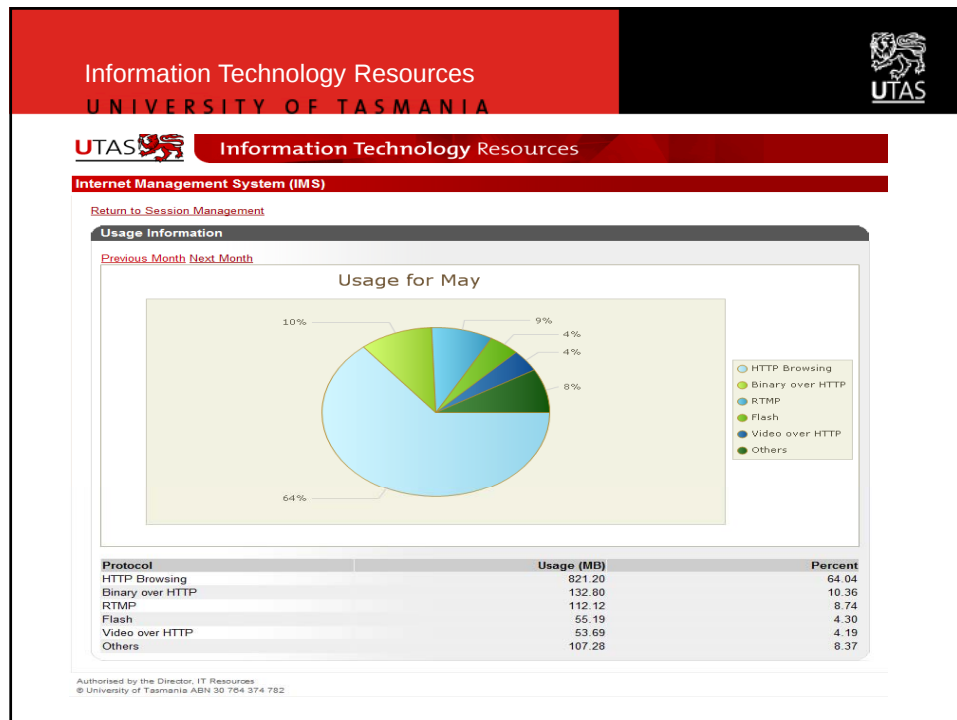
The list below shows all the IMS sessions currently allocated to your login. If your login has multiple roles associated with it, you can change the role for any of these sessions. You should set the correct role at the start of each session to ensure internet traffic is allocated correctly. Changes to your role become effective immediately so you can change your role without disconnecting or logging out.

Sessions	Workstation	Role	Session Start	Logout Schedule	IP Address	
UConnect-ITR-193.its.utas.edu	Staff (IT Resources)	5/07/2010 8:08:31 AM		10.200.5.193	Select	
UConnect-ITR-187.its.utas.edu	Staff (IT Resources)	5/07/2010 5:41:24 PM		10.200.5.187	Select	
sclis-sln-21639.its.utas.edu.au	Staff (IT Resources)	5/07/2010 5:42:05 PM		131.217.5.172	Select	

User Traffic Overview
 ● **Month Total Usage** 388.96 MB (You are within your quota)
 ● **Daily Average** 194.48 MB (You are within your quota)
 Click [here](#) for more details.

Internet access for other devices

You can activate an IMS session on another computer or device using your login name. IMS sessions activated in this way can be scheduled to start at a nominated time and expire after a specified duration. To activate an IMS session on another computer [click here](#).



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UTAS

Implementation:

- Communication
 - University wide
 - Individual departments
 - Feedback post implementation
- Identification of Subscription Services
- Deploy iaClient through SCCM or Casper
- Subnet and AD Group limitations

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Feedback

- Big Brother
- Improvement in ease of access
- TSA / UTas collaborated as one team to develop the best possible, most suitable solution

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Questions?

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