



## Avantis ContentCache™

### Internet Acceleration & Effective e-Learning for Schools

**ContentCache™** is a smart web caching and content delivery appliance\* that is installed on a school network to speed up access to web content and e-learning resources. Whether the school has a fast or slow internet connection, ContentCache™ provides a better e-learning experience by delivering web content from the local cache rather than directly from the internet.

Powered by Microsoft® ISA Server, ContentCache™ is an education specific solution optimised exclusively for high performance and high reliability.

#### Why use ContentCache™?

- Faster internet access and web browsing allowing all pupils to engage in whole class online learning
- Accelerates access to high bandwidth video rich content and e-learning resources
- Frees up the internet connection for other bandwidth intensive activities such as video conferencing
- Aids lesson planning - teachers can specify content for pre-caching before lessons and create simple to use content menus for their pupils
- More cost effective option than upgrading to a faster internet connection
- Helps keep track of school and student web usage with easy to understand reports and graphs

#### Key Features

- **Dynamic caching** - the first time a web page is accessed it gets cached, making it rapidly available for subsequent users
- **Pre-caching** - web content can be pre-cached ahead of lessons or scheduled for download when internet usage is low
- **Local content hosting** - media rich e-learning packages can be locally hosted & updated automatically
- **Easy to use web-based administration** - with separate teacher and pupil user interfaces
- **Secure** - integrates with Active Directory allowing different content to be enabled for each pupil
- **Built-in filtering** - complements existing central LEA or ISP filtering systems
- **Manifest list support** - to enable pre-caching of content packages in line with Becta specification
- **Streaming media support** - optional plugin for live stream-splitting and video on demand caching<sup>1</sup>
- **Powered by Microsoft® ISA Server** - best of class caching, high performance and high reliability



Teacher Menu - Adding Content.



Administrator Menu.

- **Up to 220 GB capacity** - to cope with the growing size of e-learning packages
- **Content ready** - tested and approved for use with all major UK education content providers
- **LEA central management software** (optional) - for managing clusters of ContentCache™ appliances<sup>2</sup>
- **Hierarchical cache array support** - integration with up stream caching solutions at the LEA/RBC
- **Remote support & upgrades** - LEAs can administer the appliance without visiting the school
- **Security updates** - automatic installation of Microsoft security patches approved by Avantis
- **Built in DVD drive** - for web content pre-loading on CD or DVD

#### Designed For

- Primary Schools
- Secondary Schools
- Colleges & Libraries

\*An appliance is a dedicated, purpose-built server, optimised to fulfil a specific function on the network

*'The speed improvement was like grease lightning. With ContentCache™ the students get more work done being a huge benefit to the students and staff alike'*

GARY MORGAN, ICT CO-ORDINATOR, WHITCHURCH HIGH SCHOOL CARDIFF

# ContentCache™ Technical Information

## Administration

**Attachment:** Direct network attachment via network hub or switch

**Initial Configuration:** Self-configures using DHCP /manually using Appliance Manager Console

**Management:** Remote managed from Web browser (Internet Explorer 5.x or greater / Netscape 6.x or greater).

**GUI:** User-friendly Web browser-based Administrator, Teacher and Pupil interfaces

**Security Options:** Open Access, MS Workgroup (manual user/group entry), MS NT Domains & Active Directory

**Capacity Expansion:** All models can be doubled in capacity (return to base service)

## Software & Protocol

**Server OS Platform:** Microsoft® Windows 2003 Server

**Caching Platform:** Microsoft® Internet Security and Acceleration (ISA) Server 2000

**Protocol Support:** TCP/IP, WPAD, HTTP, FTP over HTTP, FTP over TCP, Gopher, and Tunnel (SSL) for Web requests, SSL connection termination

## Streaming Media Support (Optional Plug-In)<sup>1</sup>

**Media Formats:** RealNetworks including RealAudio and RealVideo, Microsoft Windows Media, Apple QuickTime, Macromedia Flash 4, MPEG-4 and others (MP3, AU, AIFF, WAV, AVI, SMIL, GIF, JPEG, PNG)

**Streaming Media Protocols:** RTSP, RTP, RDT, HTTP, TCP, UDP, MMS, PNA

**OS Support:** Windows NT4.0, Windows 2000 and XP

## Content Filtering (Optional Plug-Ins)

**Products Supported:** SmartFilter, N2H2, Netsweeper, SurfControl, Websense, and others (please contact Avantis for details)

## Licensing

**Server Licence:** Unlimited users (No Microsoft CALs (Client Access Licences) required)

**Streaming Media Licence<sup>1</sup>:** 5 Mbps RealNetworks Helix Universal Proxy. Higher bandwidth options also available.

## Other Specifications

**Size:** (W x D x H): 10x44x34 cm (Mini-Tower), 45x36x5 cm (1U Rack), 45x56x9 cm (2U Rack)

**Weight:** 8-9 Kg (Mini-Tower), 10 Kg (1U Rack), 11-12 Kg (2U Rack)

**Certification:** UL, CSA, FCC Class B, CE

## Warranty & Support Options

**Warranty:** 2 year return-to-base included as standard. Extended warranties available.

**Support:** Free Avantis telephone, email and online support

**Services:** Installation, Total Maintenance (Software Maintenance & On-Site Hardware Maintenance) & Software Maintenance Support Packs available.

**Managed Service:** 3 year subscription includes Installation, Support, Software Maintenance and On-Site Hardware Maintenance (UK education only).

## Becta Specification

ContentCache™ meets with the Becta/DfES web caching specification for schools and LEAs.

Due to our policy of continued product development, Avantis is constantly updating and improving product specifications. Please refer to the Avantis website [www.avantisworld.com](http://www.avantisworld.com) for the latest specifications.

1. Subject to availability.

2. To be introduced early 2004.



## Model Selection Guide - ContentCache™

	ContentCache™ 310	ContentCache™ 320	ContentCache™ 340
Tower Model No. (Education)*	CCA.310.TFE	CCA.320.TFE	-
Rack Model No. (Education)*	CCA.310.RFE	CCA.320.RFE	CCA.340.RGE
Recommended Use	Primary School	Secondary School	Large Secondary School/College
Concurrent Users (Typical)	Up to 50	Up to 100	Up to 250
Performance	175 Requests/sec	300 Requests/sec	800 Requests/sec
Capacity	100 GB	200 GB	220 GB
Disk Type	IDE	IDE	U-160 SCSI
Network	Dual 10/100	Dual 10/100	Dual 10/100/1000
Case	Mini-Tower / 1U Rack	Mini-Tower / 1U Rack	2U Rack

\*Non-Education customers should replace 'CCA' with 'CCB' when ordering. e.g. quote CCB.310.TFE for ContentCache™ 310 Tower



For more information on ContentCache™, please visit our web site or contact your nearest Avantis Sales Office.

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