



# Home Access Plus+

Access your school from Home

Version 10 Manual

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# Home Access Plus+

Version 10 Documentation

Updated 18/04/2014 12:37:00

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## Installation Instructions

For best results, follow the video

<http://hap.codeplex.com/wikipage?title=Installation%20Video&referringTitle=Documentation>

Home Access Plus+ needs to be installed onto a Website with SSL enabled, i.e. a HTTPS website.

You can get a free SSL Certificate from <http://www.startssl.com>



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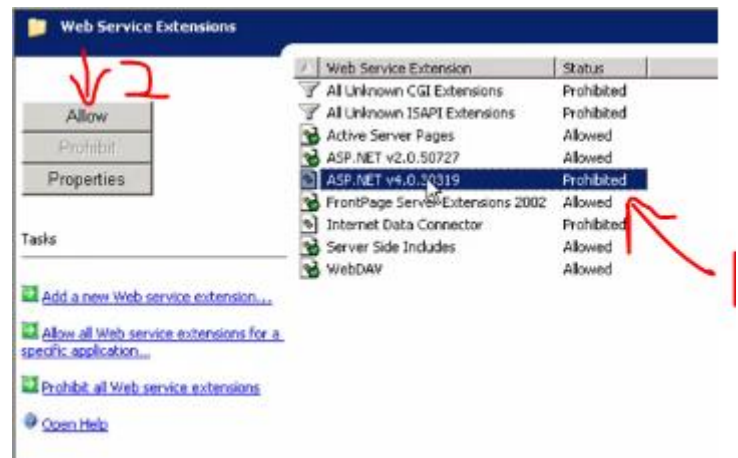
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## Installation Instructions IIS 6

1. Remote Desktop and/or log on to your primary domain controller (it can run on a member server)
2. Go to <http://www.microsoft.com/net>
3. Download .net framework version 4.
4. Install .net framework 4
5. Restart the server
6. Load IIS Manager
7. Expand the server
8. Click on web service extensions
9. Select ASP.net v4.xxx
10. Click Allow
11. Right Click on Application Pools
12. Select Add New Pool
13. Enter a Pool ID (e.g. "HAP")
14. Right Click on HAP (Pool ID) and Click Properties
15. Deselect Recycle worker process in minutes
16. Click on Performance
17. Deselect Idle shutdown timer
18. Install an SSL Certificate onto the Default Website:
  - a. Right click on the Website you want to put HAP+ into and click Properties
  - b. Under Web Site Identification click Advanced
  - c. In the Advanced Web site identification box, under Multiple identities for this Web site, verify that the Web site IP address is assigned to port 443, the default port for secure communications, and then click OK. Optionally, to configure more SSL ports for this Web site, click Add under Multiple identities of this Web site, and then click OK.
  - d. On the Directory Security or File Security tab, under Secure communications, click Edit.
  - e. To enable SSL client certificate authentication and mapping features, select the Enable client certificate mapping check box, click Edit, add the 1-to-1 or many-to-1 mappings you need, and then click OK three times.
19. Browse to <http://hap.codeplex.com>
20. Download the latest version
21. Browse to
  - a. **RM CC:** D:\RMNetwork\RMManage\Web Components
  - b. **All other:** Your IIS wwwroot for the website you wish to use
22. Create a new folder called "HAP"
23. Extract the contents of the HAP Download to this folder
24. Right click HAP and select properties
25. Deselect readonly and click ok.

*Allow it to reset every readonly attribute*
26. Add the permission:
  - a. IIS\_WPG and Network Service. Set them to Read & Execute permissions
  - b. App\_Data Folder: Set to Read & Write
27. Go back to IIS Manager
28. Expand Web Sites
29. Select the website you want to use



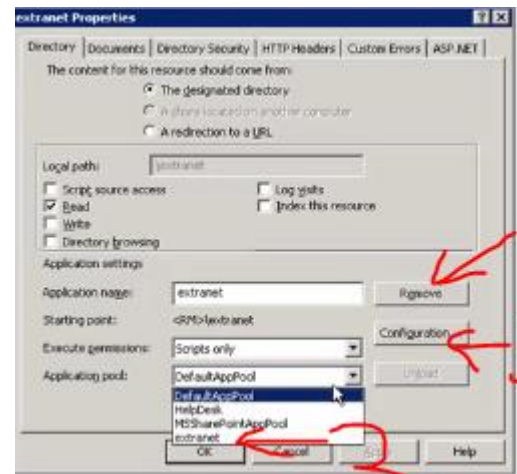


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30. Right Click on HAP and click properties
31. Click the create button next to Application name:
32. Select "HAP" (App Pool from 13) as the application pool
33. Click the ASP.net Tab
34. Change ASP.net Version to v4.x.x
35. Click Apply
36. Click Yes on the Confirm Box
37. Wait...
38. Click on Directory
39. Click the Configuration Button
40. Double Click on the .ascx Application Extension
41. Copy the Executable path
42. Click OK
43. Click Insert... under wildcard application maps
44. Paste the Path from 41
45. Deselect Verify that file exists
46. Click OK
47. Click OK
48. Under Documents
49. Remove all from the default documents
50. Add "Default.aspx"
51. Click the Directory Security Tab
52. Click Edit
53. Tick Enable Anonymous Access
54. Untick Basic Authentication
55. Click OK
56. Close IIS Manager





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## Installation Instructions IIS 7

1. Remote Desktop and/or log on to your primary domain controller (it can run on a member server)
2. Go to <http://www.microsoft.com/net>
3. Download .net framework version 4 (Full not Client).
4. Install .net framework 4
5. Restart the server
6. Load IIS Manager
7. Expand the server
8. Click on Application Pools
9. Select Add Application Pool...
10. Enter a Pool ID (e.g. "HAP")
11. Select .NET Framework v4
12. Integrated Managed Pipeline Mode
13. Click OK
14. Select your server in the tree on the left
15. Double click on the Server Certificates in the main section
16. Import or Create an SSL Certificate
17. Select a site in the tree view and click Bindings... in the Actions pane.
18. Click Add... to add your new SSL binding to the site.  
(if HTTPS already exists check that it has the correct certificate assigned to it)
19. Click **Add...** to add your new SSL binding to the site.
20. Select **https** as the Type, and assign the **SSL Certificate** added to IIS from above
21. Click OK
22. Click Close
  - For more information visit <http://learn.iis.net/page.aspx/144/how-to-set-up-ssl-on-iis/>
23. Browse to <http://hap.codeplex.com>
24. Download the latest version of the HAP+ Web ZIP
25. Browse to Your IIS wwwroot for the website you wish to use (C:\inetpub\wwwroot)
26. Create a new folder called "HAP"
27. Extract the contents of the HAP Download to this folder
28. Right click HAP and select properties
29. Deselect readonly and click ok.  
*Allow it to reset every readonly attribute*
30. Add the permission:
  - a. IIS AppPool\HAP (Findable from the Local Machine). Set them to Read & Execute permissions
  - b. App\_Data Folder: Set to Read & Write
31. Go back to IIS Manager
32. Expand Web Sites
33. Select the website you want to use
34. Right Click on HAP and select Convert to Application...
35. Tell IIS to use the HAP Application Pool
36. Select "HAP"
37. Double Click on IIS Authentication
38. Confirm Anonymous and Forms Authentication is Enabled, and the rest are disabled
39. Click on Anonymous Authentication
40. Click on Edit...



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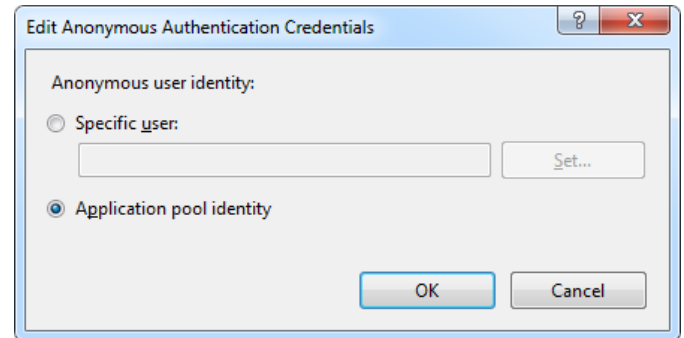
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41. Select Application pool identity
42. Go Back
43. Close IIS Manager

## Configuration

1. Browse to your website and the setup should run





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## Kerberos Internal SSO

To enable this, please follow the video at

<http://hap.codeplex.com/wikipage?title=Kerberos%20Setup&referringTitle=Videos>

## Exchange 2007/2010/2013/Office 365 LiveTiles

If you are using Kerberos SSO or Windows Authentication, please set (Under the Proxy/SMTP Tab of the HAP+ Settings) the EWS Url as well a user to use for base impersonation, please this Technet Article:

<http://technet.microsoft.com/en-us/library/ff793352%28v=office.14%29.aspx>

## Layout Integration/Branding

1. Browse to ~/master.masterpage
2. Edit the content of this file to suit your site's layout





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## User Card

### Setup

1. Download the HAP+ User Card Installer from the HAP+ Site
2. Extract the ZIP file
3. Edit HAP User Card.config in notepad
4. Change:
  - a. The Endpoint Address to your HAP+ URL
  - b. Change the OU for controlled assessment users (BLANK = DISABLED FEATURE)
  - c. Enable/Disable the Help Desk Tab
5. Deploy HAP User Card Setup.msi



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## Logon Tracker

### Setup

1. Download the HAP+ Logon Tracker Installer from the HAP+ Site
2. Deploy HAP User Card Setup.msi
3. In a Group Policy Object add Startup/Logon/Logoff/Shutdown Scripts:
  - a. Startup: "%windir%\system32\hap logon tracker.exe" <https://%yourdomain%/hap>
  - b. Logon: "%windir%\system32\hap logon tracker.exe" logon <https://%yourdomain%/hap>
  - c. Logoff: "%windir%\system32\hap logon tracker.exe" <https://%yourdomain%/hap>
  - d. Shutdown: "%windir%\system32\hap logon tracker.exe" <https://%yourdomain%/hap>
- Note the Parameter(s), this tells the logon tracker where HAP+ is installed

### Logon Tracker SQL Provider

New in HAP+ v6 is the ability to offload the Logon Tracker to a SQL Provider

1. Open SQL Server Management Console (SQLEXPRESS or SQL FULL)
2. Create a new Database
3. IIS 7.5: Add IIS APPPOOL\\$\_apppool\$ where \$\_apppool\$ is the apppool identity of the application pool to the databases users
4. Execute ~/app\_data/hap.sql to create the tables
5. Close SQL Server Management Console
6. Open ~/web.config
7. Find the connectionStrings entry
8. You should find a SqlConnectionString, edit this to be your SQL Server's ConString
9. Find the hapConfig tracker entry
10. Change provider="XML" to provider=" SqlConnectionString" (or whatever you have called your SQL Connection String Provider
11. Save
12. Run HAP+
13. Browse to the Tracker Page
14. Run the Migration from the XML files
15. Enjoy the speed boost



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## Booking System

### Rooms Drop Down

There's a hidden feature of the HAP+ Booking System, for Equipment and Laptops, which shows a list of rooms to use rather than a text box to enter. You can define a global list or use a local list.

This is a sample Xml excerpt for this, you can add this code either at the Booking System level and/or at the Resource Level.

```
<bookingsystem...>
  <rooms inherit="False">
    <room>A1</room>
    ...
  </rooms>
  ...
  <resources...>
    <resource...>
      <rooms inherit="True" />
    </resource>
    ...
  </resources>
  ...
</bookingsystem>
```

On each resource you need to use the drop down list you need to, at least, have the inherit option set in the rooms element in the resource:

```
<resource...>
  <rooms inherit="True" />
</resource>
```

For more info, please open a thread of the HAP+ Edugeek Forum.

### Booking Rules

The booking system in HAP+ allows customisation via "Booking Rules". The default installation includes a couple of booking rules that implement Charging Periods for laptops for example.

A sample set of booking rules is shown below:

```
<bookingrules>
  <rule stop="True" type="PreProcess">
    <And condition1="Booking.Lesson" condition2="Lunch" operation="Equals" />
    <action>busy(Lunch)</action>
  </rule>
  <rule stop="True" type="PreProcess">
    <And condition1="Booking.Lesson" condition2="Period 4" operation="Equals" />
    <And condition1="Resource.Name" condition2="SH2" operation="Equals" />
    <action>busy(Staff Meeting)</action>
  </rule>
  <rule stop="True" type="Return">
    <And condition1="Resource.EnableCharging" condition2="True" operation="Equals" />
    <action>bookcharging(booking.NextLesson(),Resource.ChargingPeriods)</action>
  </rule>
  <rule>
    <And condition1="Resource.EnableCharging" condition2="True" operation="Equals" />
    <And condition1="Resource.Type.ToString()" condition2="Loan" operation="Not" />
    <action>bookcharging(booking.NextLesson(),Resource.ChargingPeriods)</action>
    <action>bookunavailable(booking.PreviousLesson(),-1)</action>
  </rule>
</bookingrules>
```



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The booking rules above define the following 4 rules:

- Mark as Busy (with reason Lunch) the Lesson "Lunch". This applies to all resources
- Mark as Busy (with reason Staff Meeting), the room SH2 on every day for Period 4
- For Loan's – when returning a resource, mark the Next period as a charging period. This looks at the number of Charging Periods defined on the resource so can block off >1 periods.
- For non-Loans, and Resources with Charging enabled, mark the period before and ChargingPeriods after as being unavailable.

As you can start to see, the booking rules are pretty powerful – however they do require some knowledge of how HAP+ structures the data. For additional help, please open a thread on the HAP+ Edugeek Forum

## Rule Types

There are currently 3 different types of rules that can be applied:

- PreProcess

These rules are processed when calling the LoadRoom API which returns a list of current bookings for a given room. It would normally be expected to use these with the 'busy' action to indicate that a resource is not available, without recording the information in the bookings xml.

For example, adding a rule that disables multiple resources from being available over lunchtime without having to add static bookings for those resources.

- Return

These rules are processed when returning items from Loan. The example rule in the default configuration is shown below and is used to add a charging period when a mobile device is returned from loan.

```
<rule stop="True" type="Return">
  <And condition1="Resource.EnableCharging" condition2="True" operation="Equals" />
  <action>bookcharging(booking.NextLesson(),Resource.ChargingPeriods)</action>
</rule>
```

- Booking (Default)

These rules are processed when any item is booked (this includes loan items), and when any booking is deleted. The outcome of these rules being processed when removing a booking is generally to reset the booking system back to the state it was in before the original booking was added.

Note: special care needs to be taken if applying these rules to Loan Items, as the bookings cannot be deleted, only the item returned, which is handled by a different rule.



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## The Live Tiles

### Uptime Live Tiles

The Uptime Live Tiles are an advanced feature and are added directly in the HAPConfig.xml

```
<Link name="%a name, usually server name%" showto="Inherit" description="Uptime"
url="#" icon="" target="" type="uptime:%servername%" />
```

Notes:

Uptime Live Tiles only work on Active Directory connected servers.

### Calendar Live Tiles

The Calendar Live Tiles allow you to place a live tile that accesses another mailbox's calendar, are an advanced feature and are added directly in the HAPConfig.xml

```
<Link name="%a name%" showto="Inherit" description="%a description%" url="%url to
calendar%" icon="~/images/icons/metro/applications/calendar.png" target=""
type="exchange.calendar:%mailbox smtp address%" />
```

## The Other Tiles

The Live Tiles are:

- Uptime – Show a server's Uptime – See above
- Exchange Calendar – Shows the next 48 hours of calendar appointments in Exchange  
Add: `type="exchange.appointments"` to the Live Tile in ~/App\_Data/HAPConfig.xml
- Exchange Unread Emails – Shows an unread mail count from Exchange  
Add: `type="exchange.unread"` to the Live Tile in ~/App\_Data/HAPConfig.xml
- My Files – Shows the Drive Space indicators  
Add: `type="myfiles"` to the Live Tile in the ~/App\_Data/HAPConfig.xml
- Help Desk – Shows the Open Help Desk Tickets  
Add: `type="helpdesk"` to the Live Tile in the ~/App\_Data/HAPConfig.xml
- Booking System – Shows your bookings from the booking system for the next week  
Add: `type="bookings"` to the Live Tile in the ~/App\_Data/HAPConfig.xml