



HAWKEYE
TECHNOLOGIES

HAWKEYE MOBILE HARMONY

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Introduction

Hawkeye Mobile Harmony is an ASP.NET web site that's installed on your local network, allowing you to interface with the [AMAG](#) Security Management Software using any device with a modern web browser, including iOS, Android, and desktop browsers.

No configuration is necessary. You login to Harmony with your Symmetry username and password. All of your User Role permissions are respected by Harmony, so an Installer account can have unrestricted access, whereas a guest account might be able to only search for cards or create Visitor cards.

The [AMAG XML Developer's Kit](#) is only required for alarm clearing and the Command Center. The Data Connect option is required to create cards and events

System Requirements

SMS Host

- IIS
- ASP.NET
- .NET 2.0
- [Microsoft Web Deploy 2.0](#)

Client

- Modern web browser (Google Chrome, Firefox, iOS, Android, etc...)
- Scanfob 2002 requires Bluetooth

Supported Scanner Hardware

- [Scanfob 2002](#) barcode
- [Omnikey](#) high and low frequency smart card (5x21, 6x21, 5x25, etc) using Harmony Browser Agent
- [ScanShell](#)/Driver License OCR using Harmony Browser Agent
- [RFIDeas pcProx Enroll](#) on any device supporting USB (including iPad with the Camera Connection Kit)
- [Linea-pro 4](#) barcode
- [Grabba](#) smartcard, prox, magstripe and barcode (coming soon)
- Any device supporting Keyboard Wedge mode. Harmony monitors keypresses anywhere on the page on most client hardware, and of course the search box can be focused for direct input.

Card Tech	iPhone/iPod Touch	iPad	Windows
iClass	Grabba > Harmony Browser		Omnikey > Harmony Browser Agent
Mifare	Grabba > Harmony Browser		Omnikey > Harmony Browser Agent
Prox	Grabba > Harmony Browser *	RFIDeas Prox dongle > iScanBrowser	Omnikey > Harmony Browser Agent

Barcode	Linea-Pro 4 > Web Barcode Grabba > Harmony Browser *	Scanfob 2002 > iScanBrowser	*
Magstripe	Linea-Pro 4 > Web Barcode * Grabba > Harmony Browser *		*
Driver License			ScanShell > Harmony Browser Agent

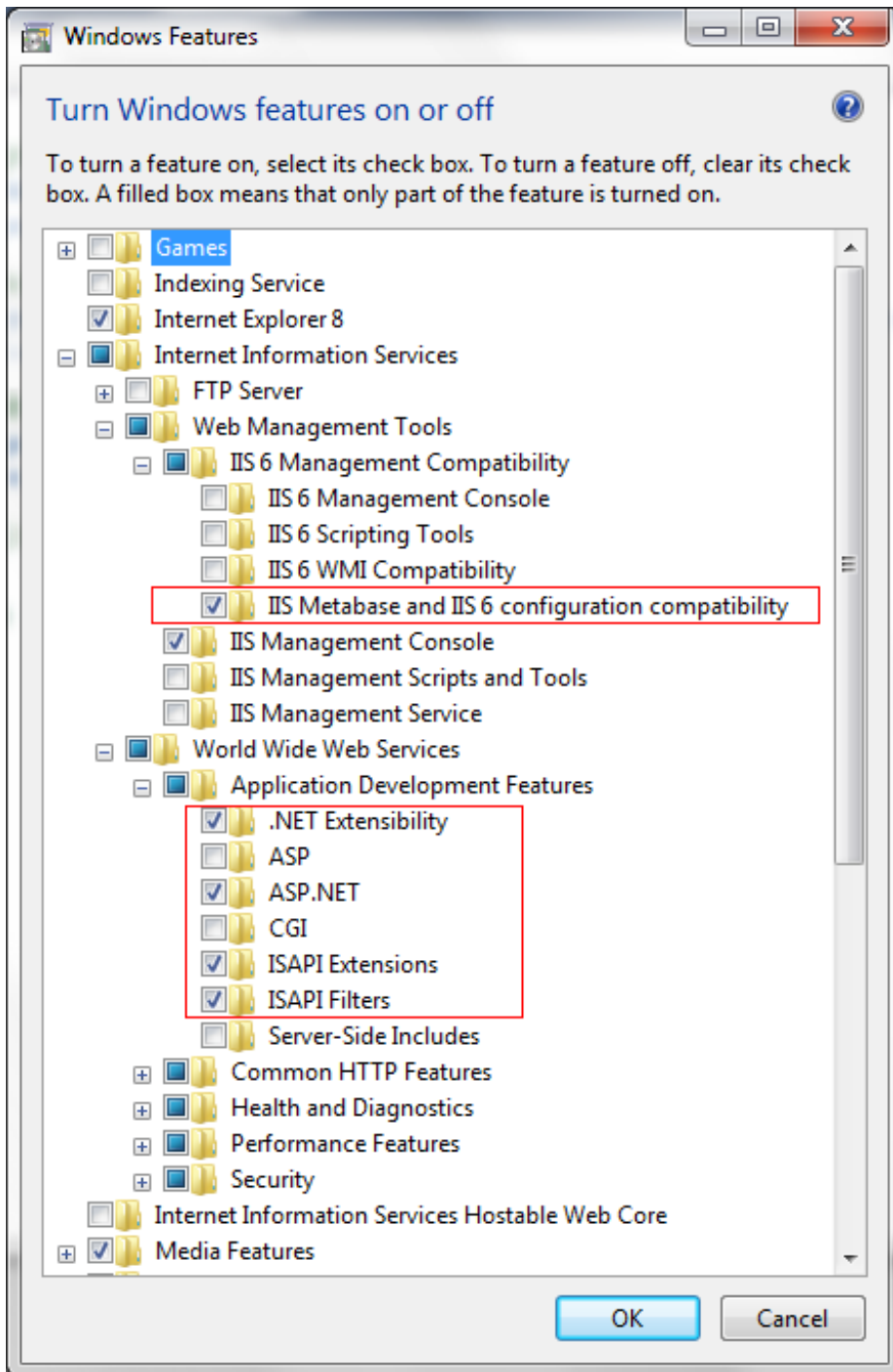
* *Coming Soon*

Contact us with your card technology and preferred hardware and we'll let you know how it's supported.

IIS

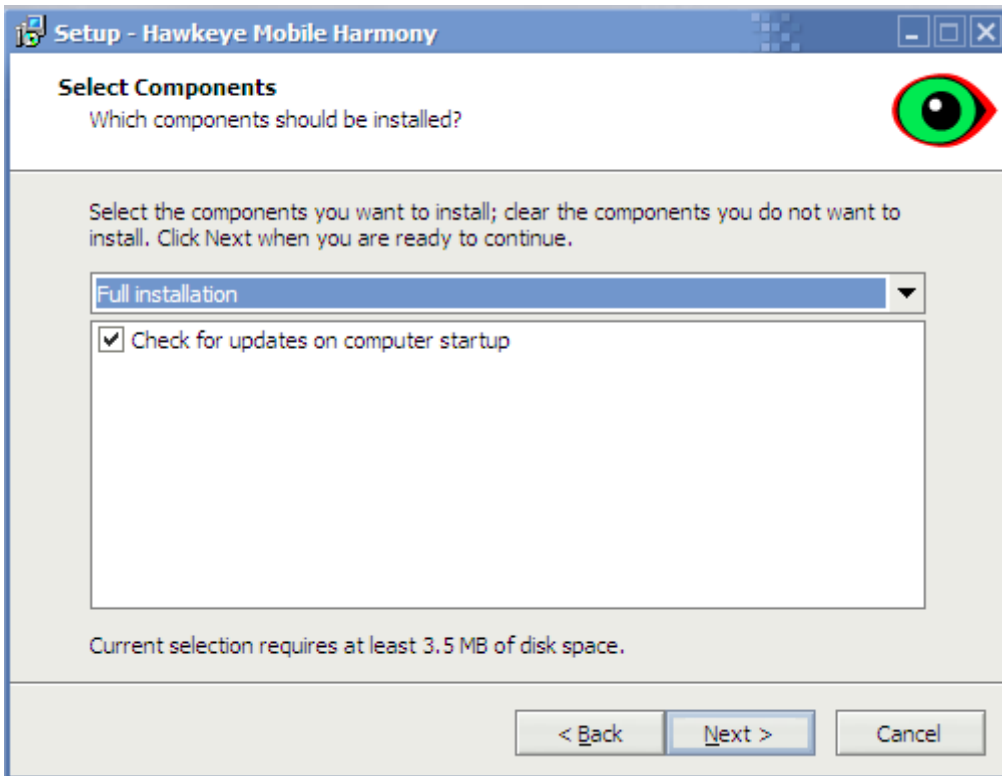
IIS must have ASP.NET support installed and default items such as Static Content.

The WebConfig Helper utility requires that IIS 7 (Windows 7 and Windows Server 2008) have **IIS Metabase and IIS 6 configuration compatibility** installed.

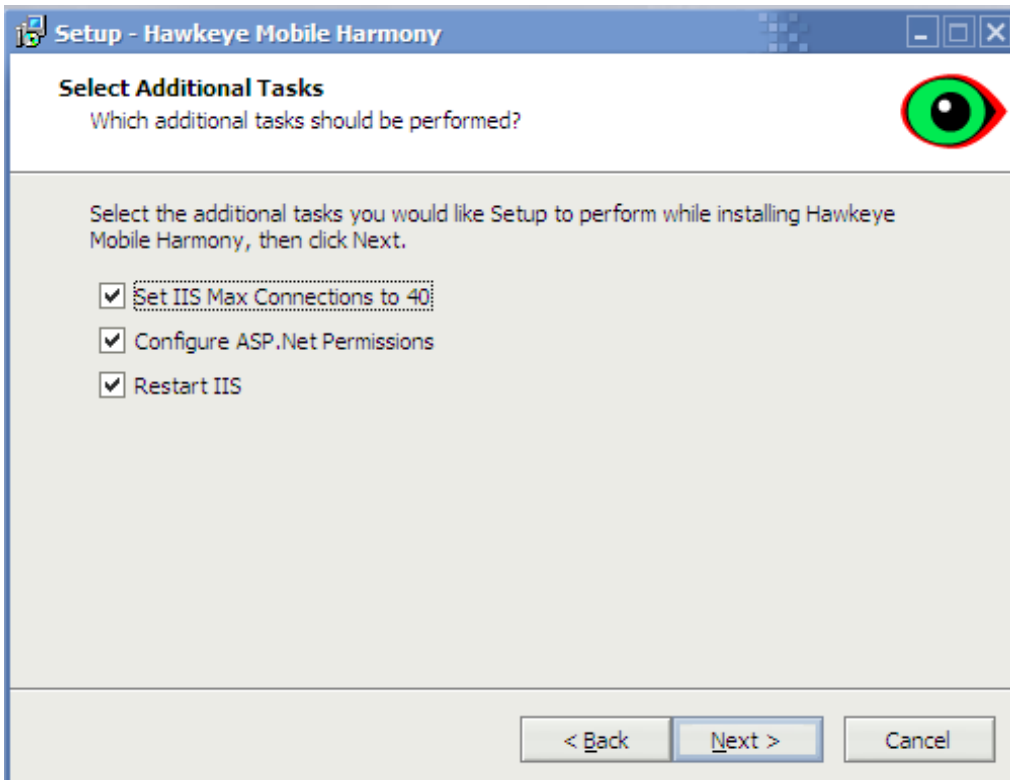


Installation

Run "Hawkeye Mobile Harmony Setup.exe" on the SMS Host and follow the prompts.



- **Check for updates on computer startup:** This optional component will add a shortcut to the Update Checker to the All Users/Public Startup Start Menu group. When the computer starts, it will silently check the update server and notify you if there's an update available.



- **Set IIS Max Connections to 40:** This option will appear on Windows XP installations. It will increase the maximum number of simultaneous connections IIS can support from 10 to 40.
- **Configure ASP.NET Permissions:** A utility will run that will help you set your Application Pool and User impersonation.
- **Restart IIS:** The IIS service will be restarted to ensure configuration changes are enacted.

Configuring ASP.NET Permissions

ASP.NET runs applications under the built in NETWORK SERVICE account, which does not have proper access to the multimax SQL databases. Therefore, the “harmony” application must be set to use an account with database access.

WebConfig Helper

The screenshot shows the 'ASP.Net Logon' dialog box. It contains the following fields and options:

- IIS Application: hmh
- SQL Server: (local)
- Radio buttons for selection:
 - Built-in: Local System
 - Default App Pool
 - User
- Windows User: envs
- Windows Password: masked with asterisks
- Buttons: Test, Save

The WebConfig Helper will help you setup your Application Pool (Windows Server 2003 and greater) or Web.Config file (XP).

If your multimax services are setup to run under a user account, the **Windows User** and **Windows Password** fields are populated for you using the multimax service credentials.

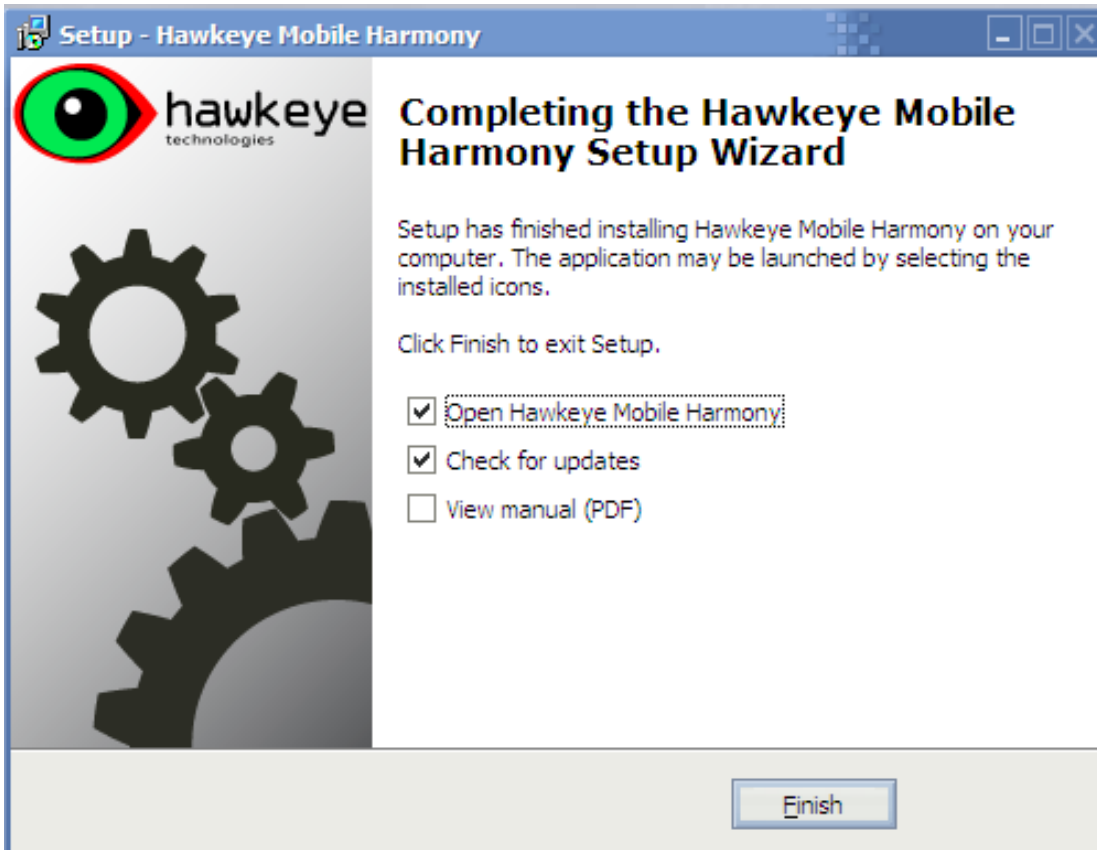
The surest way to enable access is to select the **Builtin: Local System** account, however this may represent a security risk to your organization.

Click **Test** to impersonate the selected account and perform the permission tests.

The screenshot shows the 'WebConfigHelper' dialog box with the following content:

- Success!
- User: MAX-XP-61\envs
- SQL connection to multimax...OK
- SELECT on multimax.VersionTable...OK
- UPDATE on multimax.CardInfoTable...OK
- Write access to C:\WINDOWS\Microsoft.NET\Framework\v2.0.50727\Temporary ASP.NET Files...OK
- Button: OK

Click **Save** to save the configuration.



Click Finish.

Your default web browser will open and navigate to <http://localhost/harmony>.

Securing Data in Transit

If you are concerned about securing data in transit, for instance, if you are transmitting data over the Internet without using a VPN, it is recommended that you connect to your server over https and not http.

The password on the Login page is always transmitted securely as it is hashed by the client before transmission.

License

Harmony requires activation. If a license is not currently installed, you will be redirected to the license page.

License

localhost/harmony/license.asp

Serial Number

Online Registration

First Name

Last Name

Company

Phone Number

Email

Offline Registration

license.hawkeyetech.com

Request Code

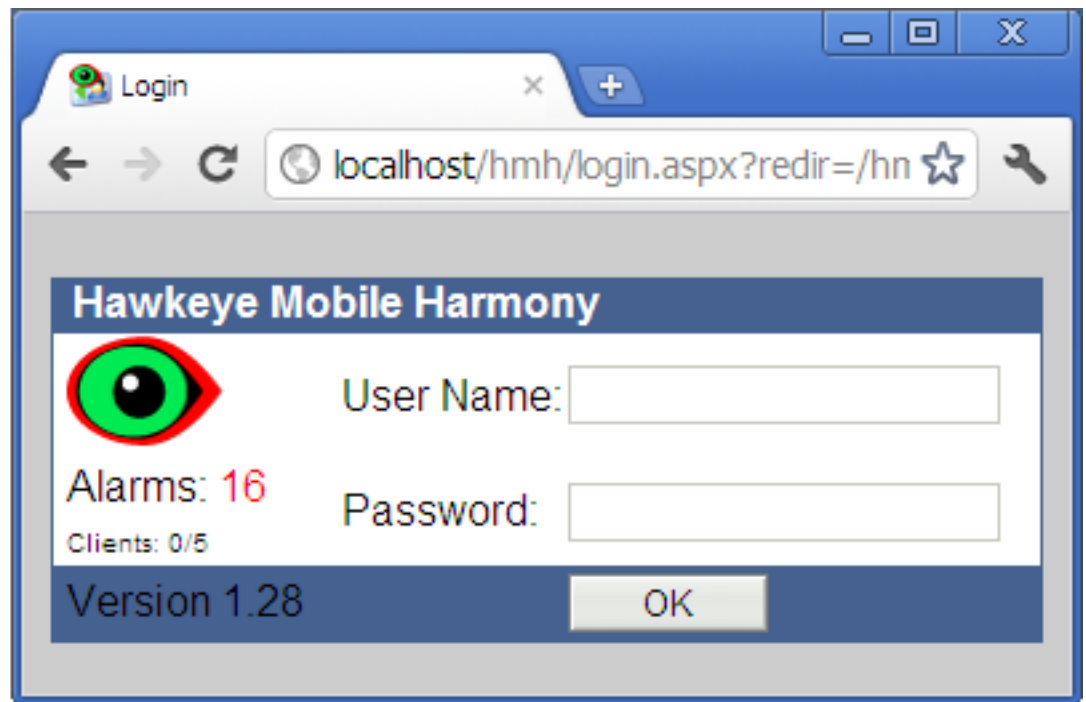
Activation Code

Enter your **Serial Number**.

There are two ways to activate:

- If the computer has an Internet connection, select **Online Registration**, enter your customer details and click **Save**. Harmony will contact <http://license.hawkeyetech.com> and download your **Activation Code**.
- If the computer does not have an Internet connection, select **Offline Registration** and click the **Request Code Get** button. Write down the **Request Code** and navigate to <http://license.hawkeyetech.com> on another computer to complete the activation process. Write down the **Activation Code** you are given and enter it into the **Activation Code** field. Click **Save**.

Login



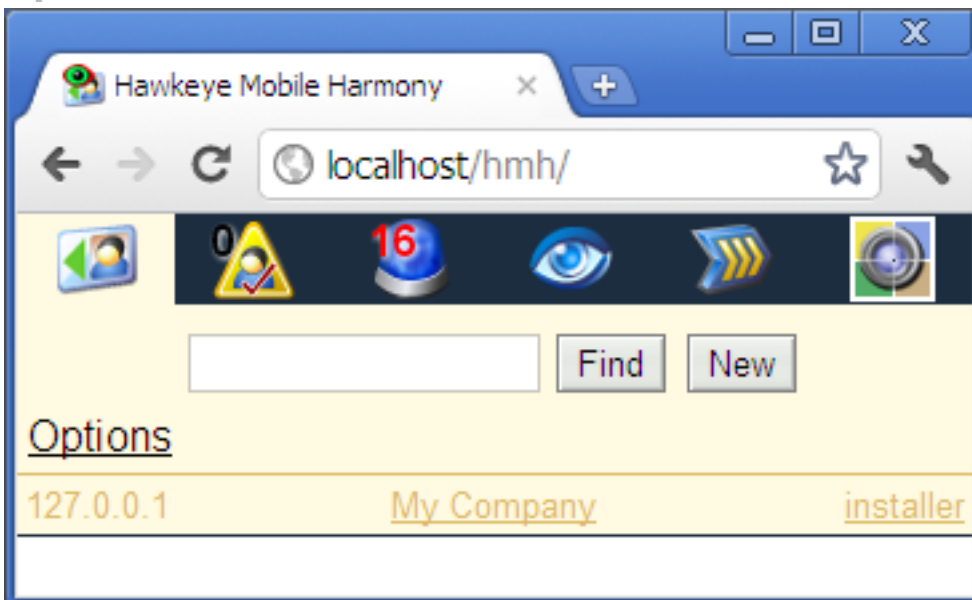
The screenshot shows a browser window titled "Login" with the address bar containing "localhost/hmh/login.aspx?redir=/hn". The page content includes a header "Hawkeye Mobile Harmony" with a green eye icon. Below the header, there are two input fields: "User Name:" and "Password:". To the left of the "User Name:" field, there is a red eye icon and the text "Alarms: 16" and "Clients: 0/5". At the bottom left, it says "Version 1.28" and at the bottom right, there is an "OK" button.

New alarm count
Current license usage

Enter your SMS username and password and press enter.

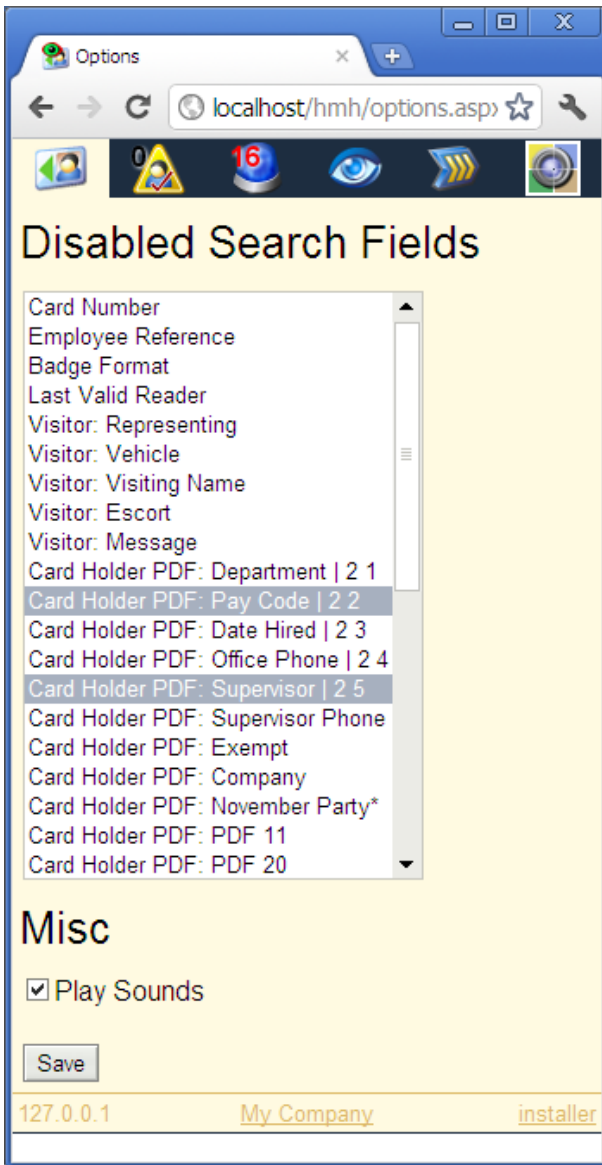
Cards

Options



The screenshot shows the main interface of the Hawkeye Mobile Harmony application. The browser window title is "Hawkeye Mobile Harmony" and the address bar shows "localhost/hmh/". The interface features a navigation bar with several icons: a person icon, a warning triangle with a checkmark, a blue sphere with the number "16", a blue eye icon, a blue arrow icon, and a camera icon. Below the navigation bar, there is a search input field with "Find" and "New" buttons. Underneath, the word "Options" is displayed in a larger font. At the bottom, there are three links: "127.0.0.1", "My Company", and "installer".

An Options link is available when a search has not been performed and if the user has Modify permissions to Client Preferences.



Disabled Search Fields

All search fields besides Card Holder Name can be set to not be included in the search criteria. Multiple fields can be selected by holding the CTRL key.

Misc

- **Play Sounds:** Uncheck to disable the Active and Inactive beep sounds that are played after a search.

Searching Cards

The screenshot shows a web browser window titled 'Hawkeye Mobile Harmony' with the URL 'localhost/hmh/Default.aspx'. A search bar contains the text 'jolie' and buttons for 'Find' and 'New'. Below the search bar, two visitor cards are displayed.

Card 1: Cruise, Tom (Background: Red)

- Visitor status: Pending
- Visitor: (Image of Tom Cruise)
- Card status: Expired
- Card Number: 436
- Visitor field: Visiting Jolie, Angelina

Card 2: Jolie, Angelina (Background: Green)

- Card Watch flag: Card Watch: Yes
- Card Holder: (Image of Angelina Jolie)
- Card Number: 433
- Employee Reference: ref
- Badge: My default badge
- Locator: Last seen at MultiClass 1 @ 08/28/2011 18:22
- Visitor Escort flag: Visitor Escort: Yes
- PDF: Personal
- Department: Engineering
- Pay Code: 3
- Office Phone: 555-555-4424
- Supervisor: None
- Yes/No PDF: Exempt: Yes
- Company: Hawkeye Tech
- Yes/No Star Field PDF: November Party*: Yes
- Client IP: 127.0.0.1 My Company installer User

Cards can be searched manually and by using supported scanners.

Unlike the SMS search function where you must select whether to search Card Holders or Visitors, and then select the search field, Harmony has a global search function that will search both Card Holders and Visitors and many of their data fields with a single button.

Search Fields

- Card Holder Name
- Card Number
- Employee Reference
- Personal Data Items
- Last Valid Reader
- Badge Format
- Representing, Vehicle, Visiting, Visitor Escort, Message (Visitors)

Wildcards are automatically added to your search criteria, so searching for *awkey* will match cards with a field that contain the word *Hawkeye*. Enclosing your search in double quotes (“”) will cause an exact match to be performed, and so “*awkey*” will not return cards that only contain *Hawkeye*.

Entering *visitors* as your search criteria will return all Visitors, and *card holders* will return all Card Holders.

Simply clicking Find with no search criteria will cause the first 50 results to be returned.

The card background color represents their Card Status.

- Active
- Forced Inactive
- Expired
- Card Lost
- Stop

Visitors have an additional color around their name that represents their Visitors Status.

- Pending
- Active
- Closed
- Stop

Use a Bluetooth earpiece for discrete audio indicators.

Active and Inactive beep sounds are played when a single search result is returned. A “Multiple Results” sound is played in the case of multiple search results.

Personal Data Fields that contain either “Yes” or “No” will show an additional green tick or red cross. This allows for a quick visual indication as to whether someone has a particular flag set.

A Personal Data Title that contains a star (*) is called a Star Field. When a single search result is returned, a “Star Field: Yes” or “Star Field: No” sound will follow the Card Status beep sound. This sound and the Card Status sound allow for the option of completely auditory validity checks.

Card Actions

If the user has Enabled or Disabled permission to Card Number, the person's name will become a link to the Card Actions screen.

The screenshot shows a web browser window titled "Card Actions" with the URL `localhost/hmh/cardactions.aspx?CardID=9847`. The interface is for a user named "Cruise, Tom" with a red "Expired" status. The main content area is divided into several sections:

- Manual Muster:** Includes a "Muster Card In" button.
- Check Access:** Features a dropdown menu for "Reader" set to "840 HID Prox", a calendar for "August 2011", a "Day" input field, a "Time" input field set to "22:36", and a "Check" button.
- Activate:** Includes an "Activate" button.
- Deactivate:** Features a "Reason" dropdown menu set to "Force Inactive" and a "Deactivate" button.
- Expire:** Shows "Current" as "8/25/2011", a calendar for "August 2011", an "Expire on" input field, and an "Expire" button.
- Card Watch:** Includes a checkbox for "Card Watch".
- Visitor:** Shows "Status" as "Pending" and includes "Sign In", "Sign Out", and "Close" buttons.

The footer of the application displays the version "127.0.0.1", the company name "My Company", and the role "installer".

Manual Muster

This Card Action will appear when in Muster In or Muster Out mode. It allows for cards to be mustered manually, in the case that the person does not have their card available to scan. When in Muster In mode, the card will be added to the muster list, and likewise removed from the muster list when in Muster Out mode.

Check Access

Check Access lets you see if the card has access to a given reader at the specified day and time. It will return a familiar SMS response message, like Granted Access, At Wrong Door, At Wrong Time, Expired, etc.

Activate

Activate creates a "Reactivate Card" import request, clearing such flags as Stop, Card Lost and Forced Inactive.

Deactivate

Select the reason (Force Inactive, Card Lost, Stop) and click Deactivate to deactivate the card. The appropriate flag will be set on the card if Card Lost or Stop is selected.

Expire

Select the date and click Expire to change the Inactive Date on the card. The default is the current day.

Card Watch

Toggle the Card Watch flag.

Edit

Takes you to the New/Edit card screen, where you can edit things like Card Number, Personal Data and Access Rights.

Visitor

Visitors can be signed in, signed out, and closed.



The screenshot shows a 'Visitor' management interface. At the top left is a clipboard icon with a 'V' and the word 'Visitor'. Below this, the 'Status' is 'Active', highlighted in a green box. A 'History' table follows with columns: 'Signed In', 'Signed Out', 'Visiting', and 'Escort'. The first row of data shows '08/28/2011 22:39', '12/31/2035 23:59', 'Jolie, Angelina', and '(None)'. At the bottom, there are four buttons: 'Sign In', 'Sign Out', 'Close', and 'Signed In' (which is highlighted in green).

	Signed In	Signed Out	Visiting	Escort
History	08/28/2011 22:39	12/31/2035 23:59	Jolie, Angelina	(None)

Locator

Last Seen At is shown if the user has View access to View > Locator. Having View access to the Locator tab will cause Last Seen At to become a link, taking you to the Locator page, which shows the last 25 valid transactions for the card.

Creating Cards

Click New, select Card Holder or Visitor and click Next.

localhost/hmh/newcard.aspx

First Name

Last Name

Middle Name

Card Details

Card Number

Customer Code

Active Date

August 2011						
Su	Mo	Tu	We	Th	Fr	Sa
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10

Inactive Date

August 2011						
Su	Mo	Tu	We	Th	Fr	Sa
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10

Employee Ref

Badge Design

Photo No file chosen

Personal

Department

Pay Code

Date Hired

Office Phone

Supervisor

Supervisor Phone

Exempt

Company

November Party*

PDF 11

PDF 20

PDF 21

PDF 30

PDF 31

PDF 40

PDF 41

PDF 50

127.0.0.1 My Company installer

localhost/hmh/newcard.aspx

First Name

Last Name

Middle Name

Representing

Vehicle

Visitor Details

Arriving

August 2011						
Su	Mo	Tu	We	Th	Fr	Sa
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10

Departing

August 2011						
Su	Mo	Tu	We	Th	Fr	Sa
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10

Visiting

Contact Number

Badge Design

Message

Photo No file chosen

Card Details

Card Number

Customer Code

Active Date

August 2011						
Su	Mo	Tu	We	Th	Fr	Sa
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10

Inactive Date

August 2011						
Su	Mo	Tu	We	Th	Fr	Sa
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10

Personal

Vendor

Contractor

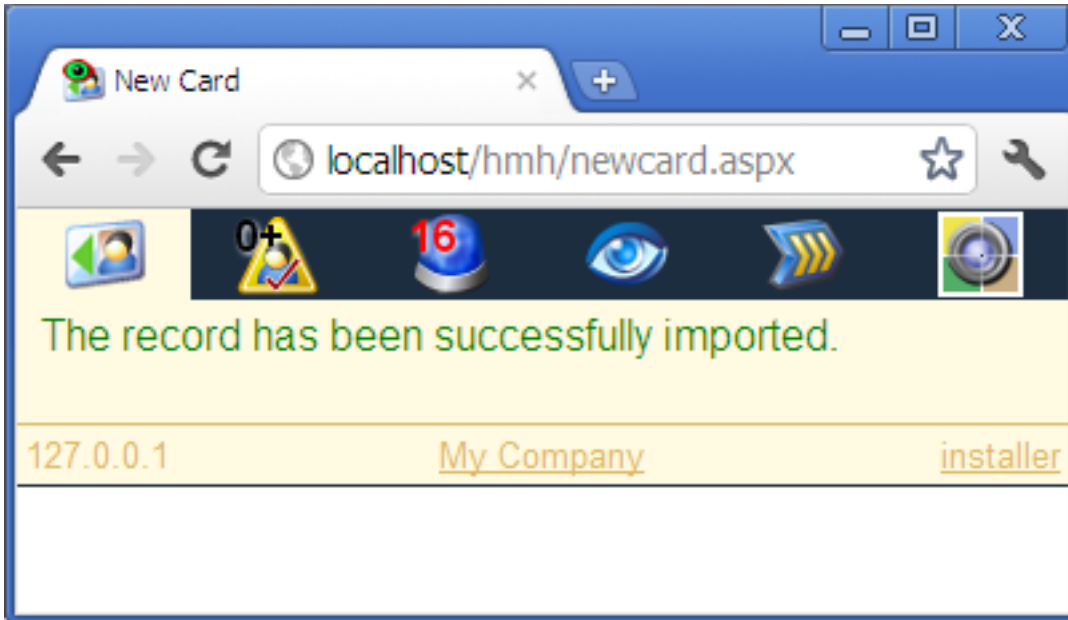
NDA Signed*

Escort Required

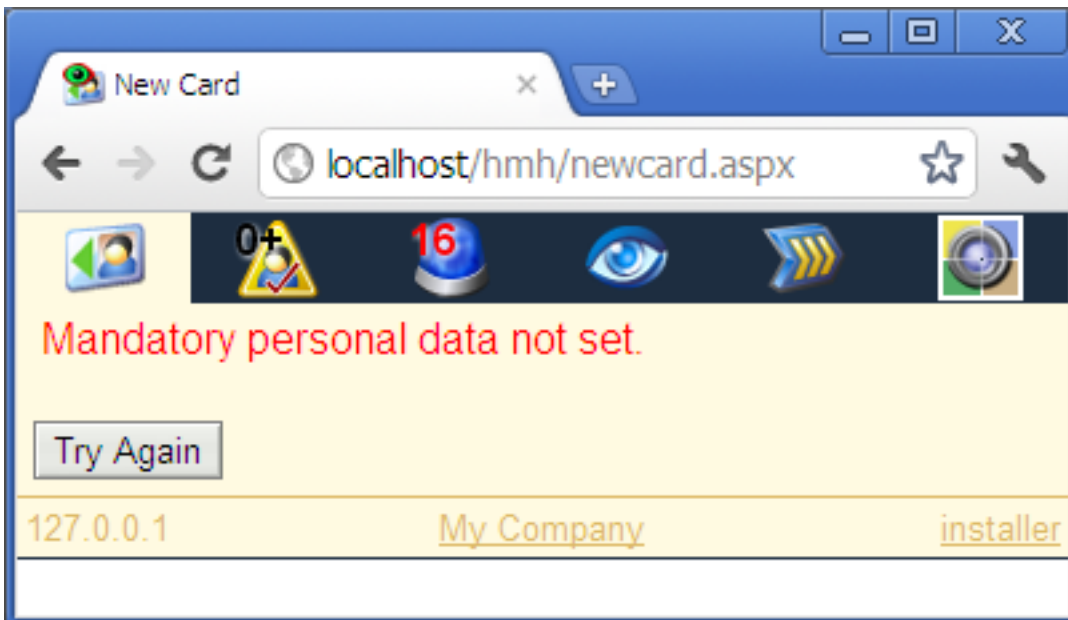
Mandatory fields are in red.

Personal Data Fields that are configured in SMS as "List Only" display dropdowns.

Enter your card information and click Save.



The import status will be displayed. If errors occurred, click Try Again and correct the errors.



Muster

localhost/hmh/muster.aspx

Off In Out [Options](#)

First Name	Last Name	When
Angelina	Jolie	8/28/2011 10:45:25 PM

127.0.0.1 [My Company](#) [installer](#)

Cards can be mustered into and out of the internal SMS muster list. The SMS Muster option however, is not required.

The muster count and Muster Mode is displayed on top of the muster icon.

Select "Off" to disable mustering. Select In to muster cards in and Out to muster cards out.

Scanned cards will be mustered in or out according to the Muster Mode. Cards can also be mustered manually by performing a search, clicking the person's name to navigate to the Card Actions page and selecting Manual Muster.

Options

Configure Identity

Off/Normal Reader Dev

In/On-Site Group On-Site: Office

In/On-Site Reader Dev In

Out/Muster Group Muster: Office

Out/Muster Reader Dev Out

Save

127.0.0.1 My Company installer

Harmony uses its configured identity when logging to SMS.

The *Sign Visitors In/Out According to Muster Mode* option will automatically sign your Visitors in or out when muster is turned on.

Every client has its own identity settings. This allows clients to be easily identified in SMS, and it allows the possibility of “multiple mustering”, which musters cards into and out of multiple muster areas.

The default values for the Off, In and Out reader are:

- Harmony
- Harmony In
- Harmony Out

Harmony will default to the SMS On-Site Group and Muster Group. Alternatively, the dropdowns can be used to select the desired Reader Group.

The reader identities should be created in SMS as *Virtual Readers*, that is, they exist on a LAN Chain that we create and disable. This allows the *Virtual Readers* to be addressed in SMS as if they were physical readers.

Create a new LAN Chain. Uncheck “Enabled”. Create a new Node off this Chain and create the *Virtual* readers off this Node.

Add your In Reader to your On-Site Reader Group and add your Out Reader to your Muster Reader Group.

Install - LAN Chain Definition

LAN Chain Name:

LAN Configuration

LAN Client Name:

LAN Port Name:

LAN Interface: Enabled

Use DHCP to obtain IP Address
 DHCP Name:

Use static IP Address
 IP Address:

Current Password:

New Password:

Install - Node Definition

Node Description:

Setup | Reporting | LAN

Chain Name:

Node Type:

Node Address: Cards / Transactions:

Install - Reader Selection

Filter

Reader Description: Entries Found:

Chn/Node/Ctrl/Rdr	Description:	Node Name:
1/001/1/1	MultiClass 1 @5	black box node
1/001/1/2	MultiClass 2	black box node
1/001/1/3	Mifare	black box node
1/001/1/4	840 HID Prox @sdt	black box node
14/001/-/1	assa 1 - IT930H1202SC03AA @	fake node 2
14/001/-/2	GF01297 In	fake node 2
14/001/-/3	GF01297 Out	fake node 2
14/001/-/4	GF01297	fake node 2
14/001/-/5	HMH In	fake node 2
14/001/-/6	HMH Out	fake node 2
14/001/-/7	HMH	fake node 2
14/009/1/1	Virtual elevator reader G1L1I1	Virtual elevator node

Alarms

What	Where	Last Name	First Name	When
Cardwatch [433]	MultiClass 1	Jolie	Angelina	08/27/2011 23:18
Cardwatch [433]	MultiClass 2	Jolie	Angelina	08/27/2011 23:18
Cardwatch [433]	MultiClass 1	Jolie	Angelina	08/27/2011 23:18
Inactive [433]	MultiClass 2	Jolie	Angelina	08/27/2011 20:56
Inactive [433]	MultiClass 1	Jolie	Angelina	08/27/2011 20:56
Cardwatch [433]	MultiClass 1	Jolie	Angelina	08/27/2011 20:56
Inactive [433]	MultiClass 1	Jolie	Angelina	08/27/2011 20:56
Inactive [433]	MultiClass 2	Jolie	Angelina	08/27/2011 20:56
Cardwatch [433]	MultiClass 2	Jolie	Angelina	08/27/2011 20:56
Cardwatch [433]	MultiClass 1	Jolie	Angelina	08/27/2011 19:56
Cardwatch [433]	MultiClass 2	Jolie	Angelina	08/27/2011 19:56
Card Expired [420]	MultiClass 2	Hoffman	Dustin	08/27/2011 19:56
Inactive	HMH (installer @ 127.0.0.1)	Jolie	Angelina	08/27/2011 23:13
Inactive	HMH (installer @ 127.0.0.1)	Jolie	Angelina	08/27/2011 23:12
IP Camera Offline	Axis 212			08/28/2011 17:04
IP Camera Offline	sony 550			08/28/2011 13:54
At Wrong Door [433]	MultiClass 2	Jolie	Angelina	08/27/2011 23:18
Cardwatch [433]	MultiClass 2	Jolie	Angelina	08/27/2011 20:56
Card Expired [429]	MultiClass 1	Badenov	Boris	08/27/2011 19:56
Card Expired [429]	MultiClass 1	Badenov	Boris	08/27/2011 19:56

127.0.0.1 My Company installer

Click a column header to sort. Click a What field to navigate to the Acknowledge Alarm page.

Clearing Alarms

A screenshot of a web browser window titled "Acknowledge Alarms". The address bar shows "localhost/hmh/alarm.asp". The page content includes:

What	Cardwatch [433]
Where	MultiClass 1
Who	Jolie, Angelina
When	08/27/2011 23:18
Priority	20

Below the table is a "Comments" section with a "Select Comment" dropdown menu and a text area. At the bottom of the form are "Clear" and "OK" buttons. The footer of the page displays "127.0.0.1", "My Company", and "installer".

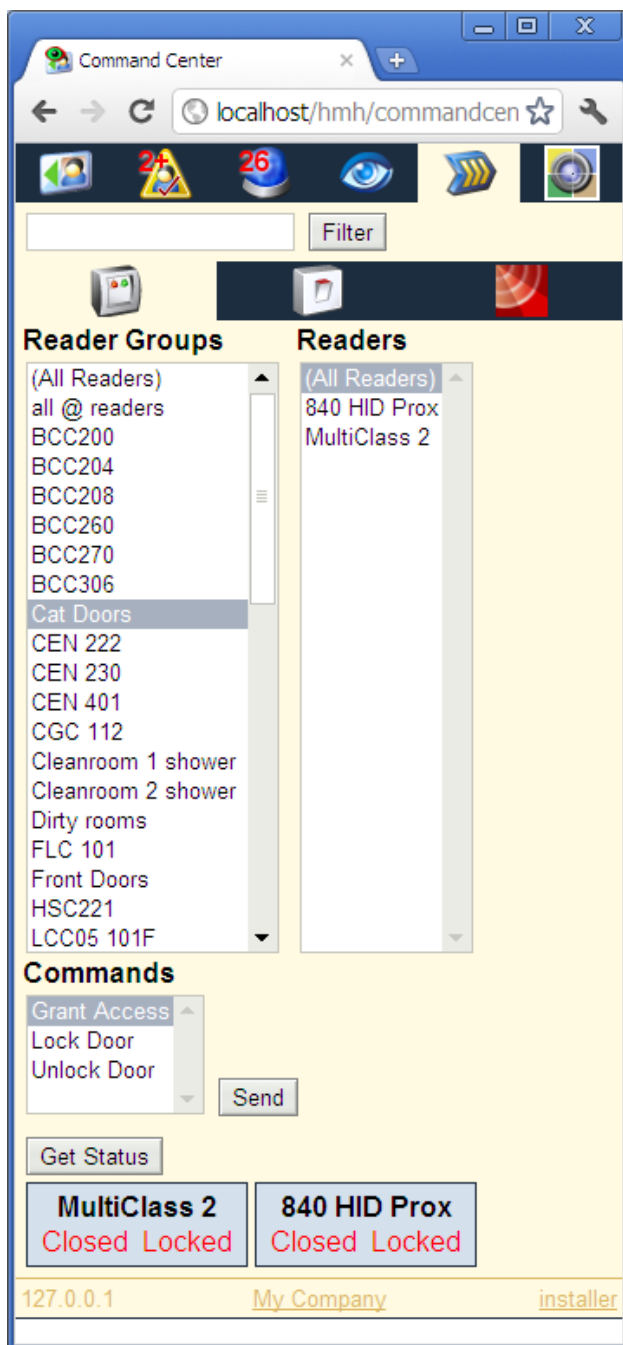
The AMAG XML Developer's kit is required to clear or acknowledge alarms.

Activity

<u>What</u>	<u>Where</u>	<u>Last Name</u>	<u>First Name</u>	<u>When</u>
Cardwatch [433]	MultiClass 1	Jolie	Angelina	08/28/2011 23:09
Granted Access [433]	MultiClass 1	Jolie	Angelina	08/28/2011 23:09
[Muster] Active	Dev In (installer @ 127.0.0.1)	Jolie	Angelina	08/28/2011 22:45
Multiple results (jolie)	Dev In (installer @ 127.0.0.1)			08/28/2011 22:45
New Card	Dev In (installer @ 127.0.0.1)	Demo	Harmony	08/28/2011 22:44
Visitor: Signed In	Dev In (installer @ 127.0.0.1)	Cruise	Tom	08/28/2011 22:39
Multiple results (jolie)	Dev In (installer @ 127.0.0.1)			08/28/2011 22:34
Multiple results (jolie)	HMH (installer @ 127.0.0.1)			08/28/2011 22:23
Login	HMH (installer @ 127.0.0.1)			08/28/2011 22:23
Multiple results (jolie)	HMH (installer @ 127.0.0.1)			08/28/2011 22:22
Multiple results (jolie)	HMH (installer @ 127.0.0.1)			08/28/2011 22:20
Login	HMH (installer @ 127.0.0.1)			08/28/2011 22:08
				08/28/2011

Click a column header to sort. Clicking an alarm will take you to the Acknowledge Alarm page.

Command Center



The Command Center requires the AMAG XML Developer's Kit. The status of devices can be retrieved, and the devices can be sent various commands. Readers, Auxiliary Outputs, Monitor Points and Predefined Commands are supported.

The Filter button can be used to only show devices and device groups matching your search criteria. Items containing the search criteria will be shown.

Selecting (All <Device Type>) when a device group is selected will send commands to all devices in that device group.

Matrix

The screenshot shows a web browser window with the URL `localhost/hmh/matrix.aspx`. The interface includes a navigation bar with icons for user, help, and other functions. Below the navigation bar is a dropdown menu set to 'all' and a set of checkboxes for 'Alarms', 'Activity', and 'PTZ', along with an 'Options' link. The main area displays a grid of camera feeds:

- Axis 212:** Shows a wide-angle view of a room with a large circular light fixture. Controls: Zoom In, Zoom Out, Full Screen.
- sony 550:** Shows a close-up of a textured wall. Control: Full Screen.
- Axis p3301:** Shows a hallway with a door. Controls: Zoom In, Zoom Out, Full Screen.
- Axis 225fd:** Shows a room with a large map on the wall. Controls: Zoom In, Zoom Out, Full Screen.
- Bosch NDC:** Shows a close-up of a light fixture. Control: Full Screen.

Below the camera feeds is an activity log table:

What	Where	Last Name	First Name	When
Cardwatch [433]	MultiClass 1	Jolie	Angelina	08/30/2011 03:26
Granted Access [433]	MultiClass 1	Jolie	Angelina	08/30/2011 03:26

Below the activity log is another table with a scrollable list of entries:

What	Where	Last Name	First Name	When
Cardwatch [433]	MultiClass 1	Jolie	Angelina	08/30/2011 03:26
Cardwatch [433]	MultiClass 1	Jolie	Angelina	08/28/2011 23:09
Cardwatch [433]	MultiClass 1	Jolie	Angelina	08/27/2011 23:18
Cardwatch [433]	MultiClass 2	Jolie	Angelina	08/27/2011 23:18
Cardwatch [433]	MultiClass 1	Jolie	Angelina	08/27/2011 23:18

At the bottom of the interface, there is a status bar showing the IP address `127.0.0.1`, the company name `My Company`, and a link to `installer`. A progress bar at the very bottom indicates 'Waiting for 192.168.1.149...'.

Axis, Sony and Bosch digital video definitions are pulled from SMS.

Offline cameras will show a broken image icon and the camera name.

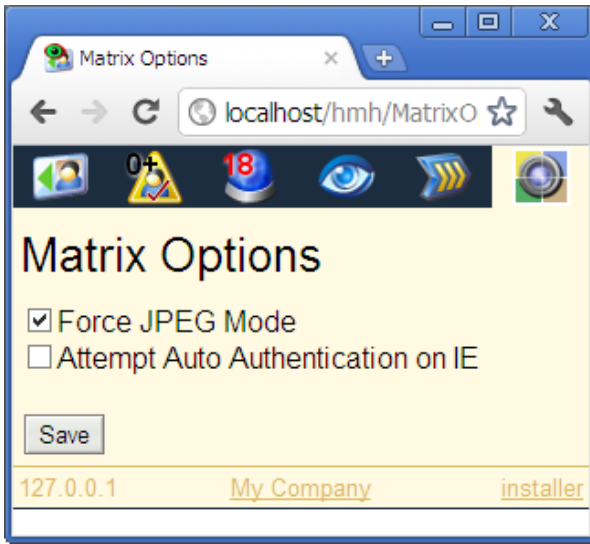
Use the dropdown to select a SMS Matrix view or camera.

Alarms and Activity can be shown below the cameras. They are refreshed every 5 seconds.

Clicking a camera will zoom into the full resolution of the single camera. Click the camera again to return to the view.

Check **PTZ** to enable PTZ control of Axis cameras. When in PTZ mode, clicking a camera will cause the camera to center at the position of the click.

Options



Force JPEG Mode

Axis and Sony cameras are capable of returning an MJPEG stream with slightly better performance than a JPEG stream, however, it is not reliable in a multi-user configuration. Default is checked.

Attempt Auto Authentication on IE

See Below.

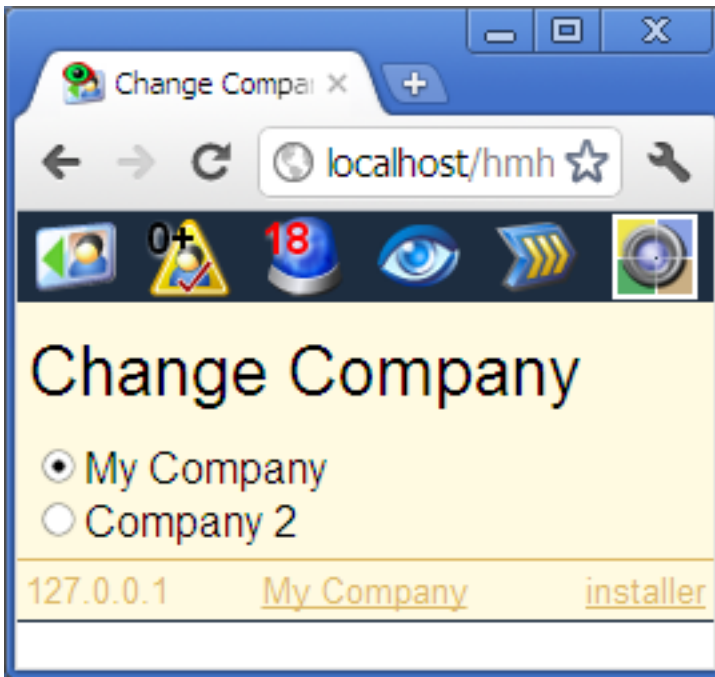
Internet Explorer

IE doesn't support inline authentication by default, and will thus popup a login dialog when trying to view a password protected camera.

Workarounds:

- Enter the username and password, and check "Save credentials". Future requests will use the stored credential.
- Enable anonymous access to the camera using the camera's setup page.
- Change registry keys to allow inline authentication:
<http://support.microsoft.com/kb/834489>. A "Fix it" tool is available at the bottom of the page. Reboot. On the Matrix page, select Options and check "Attempt Auto Authentication on IE".

Changing Companies



The Company indicator will be clickable if your user belongs to a Company Group that contains more than 1 company. This is equivalent to View > Change Company in SMS.

This value affects what fields are available during card creation and what cameras are shown on the Matrix screen.

Logging Off

Your session is stored as a session cookie. Click the username in the lower right or close your browser window to logoff.

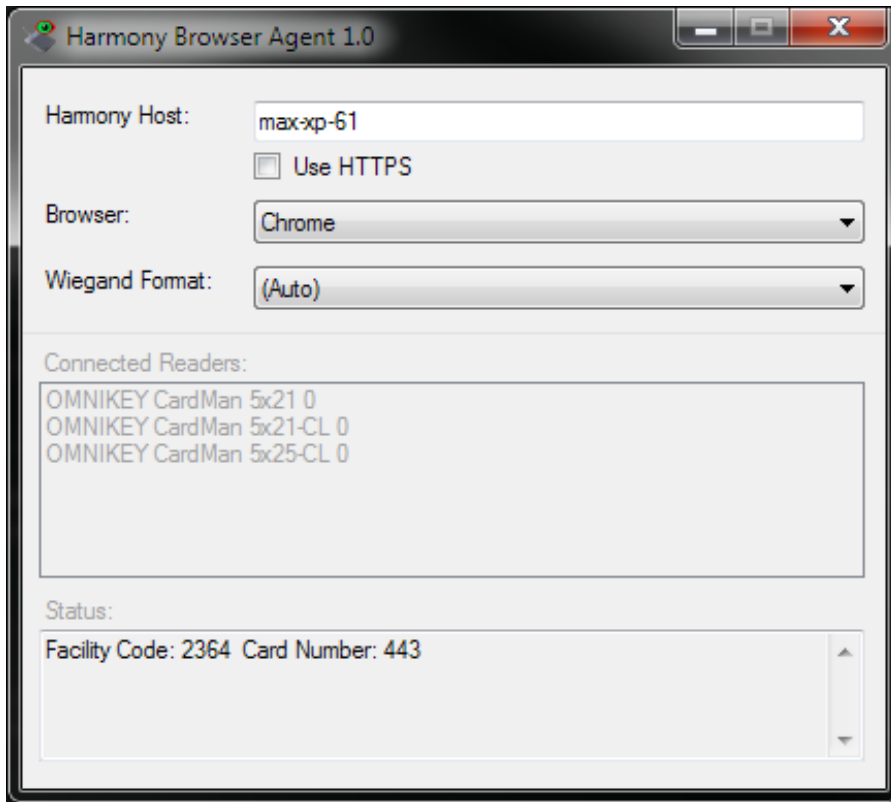
Permissions

SMS permissions are respected throughout Harmony. You can restrict entire screens and certain controls on screens. The same Enabled/Disabled/Hidden and View/Modify/Delete/None User Role paradigms carry over. These are configurable in SMS via Configure > User > Roles.

Working with Physical Cards

Harmony Browser Agent

Harmony Browser Agent is a free Windows utility that allows you to use Omnikey Smart Card readers to perform Smart Card searches on desktops, laptops and Windows tablets. It works with low and high frequency readers (such as 5x21 and 5x25). It's compatible with Prox, Mifare, iClass, iClass Corp 1000, contactless CAC cards and Driver Licenses, and works with Chrome and Internet Explorer and Firefox. Download it at <http://hawkeyetech.com/>.



Harmony Browser

Harmony Browser is an iOS app that adds Grabba reader support to a Mobile Safari shell. It's not yet available from the App Store.

Using a Scanfob 2002 or RFIDEas Prox dongle

Refer to the Scanfob documentation for pairing and operating instructions.

The RFIDEas reader requires the iPad Camera Connection kit. Plug the reader into the adapter, and then the adapter into the iPad.

iScanBrowser

Download iScanBrowser for the App Store.

Launch iScanBrowser and create a New Page rule with the following settings:

Close

Web Form Rules

Done

Active Page Rules

Deactivated: Google Search

Input: 'q', Append: NO, URL: http://google.com/*

Deactivated: Yahoo Search

Input: 'p', Append: NO, URL: http://search.yahoo.com/*

Deactivated: ...

Input: ...

Deactivated: ...

Input: ...

Deactivated: ...

Input: ...

Deactivated: ...

Input: ...

Deactivated: ...

Input: ...

Deactivated: ...

Input: ...

As
recei
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New Page Rules

Deactivated: ...

Input: ...

hm

Input: ...

Deactivated: ...

Input: ...

Deactivated: ...

Input: ...

Deactivated: ...

Input: ...

Deactivated: ...

Input: ...

Deactivated: Amazon Search

Input: 'None', Append: NO, URL: http://www.amazon.com/s/ref=nb_sb_noss?url=search-alia...

The active New Page Rule is used to open a web page to post scanned data when the current browser page is not one of the Active Page Rules. Only one New Page Rule can be active.

Edit Web Form Rule

Close Save

Name:

URL: i

Use focused INPUT: OFF i

INPUT id:

INPUT name:

INPUT index:

Only if empty: OFF i

Append Data: OFF i

Call form.submit: OFF i

New page rule: ON i

Rule Is Active: ON i

Match sound: None

No-Match Sound: beep.aiff

The end of your URL should contain /harmony/?search=%@

This will cause a search to be performed using the barcode data.

iPad 8:00 AM 39%

Close Web Form Rules Edit

Active Page Rules

Deactivated: Google Search Input: 'q', Append: NO, URL: http://google.com/*
Deactivated: Yahoo Search Input: 'p', Append: NO, URL: http://search.yahoo.com/*
Deactivated: Yahoo Search Input: 'p', Append: NO, URL: http://www.yahoo.com/*
Deactivated: Amazon Search Input: 'field-keywords', Append: NO, URL: http://www.amazon.com/*
Deactivated: Restock.com List-In-Hand (username) Input: 'username', Append: NO, URL: http://restock.com/LIH/login
Deactivated: Restock.com List-In-Hand (password) Input: 'password', Append: NO, URL: http://restock.com/LIH/login
Deactivated: Restock.com List-In-Hand (new list) Input: 'upcs', Append: YES, URL: http://restock.com/LIH/lookup
Deactivated: Restock.com List-In-Hand (active input) Input: 'focused', Append: NO, URL: http://restock.com/LIH/*

Active Page Rule is used to find the 'input' on the current page when scanned data is received. If the current page does not conform any above rules, the active 'New Page Rule' will be performed. The 'input' is the HTML tag of the edit field that data will be posted to

New Page Rules

Deactivated: hmh hse Input: 'None', Append: NO, URL: http://192.168.1.112/hmh/?search=%@
hmh max Input: 'None', Append: NO, URL: http://192.168.1.111/hmh/?search=%@
Deactivated: Restock.com List-In-Hand (lookup) Input: 'None', Append: NO, URL: http://restock.com/LIH/lookup?dr=1&upc=%@
Deactivated: Art Classics Input: 'None', Append: NO, URL: http://artclassicsltd.com
Deactivated: Google Search Input: 'None', Append: NO, URL: http://google.com/search?q=%@
Deactivated: Yahoo Search Input: 'None', Append: NO, URL: http://yahoo.com/search?q=%@
Deactivated: Amazon Search Input: 'None', Append: NO, URL: http://www.amazon.com/s/ref=nb_sb_noss?url=search-alias=aps&fiel...

The active New Page Rule is used to open a web page to post scanned data when the current browser page is not one of the Active Page Rules. Only one New Page Rule can be active.

No-Match Sound: beep.aiff



Find

New

Jolie, Angelina



Badge: My default badge

Last seen at: HMH In

Department: Engineering

Pay Code: 3

Office Phone: [555-555-4424](tel:555-555-4424)

Supervisor: None

✓ Exempt: Yes

Company: Hawkeye Tech

✓ November Party*: Yes

Changelog

1.87

- Respect DevicePermissionsTable (User Roles assigned to specific objects) for Matrix Views, Cameras, Command Center, New Card, Card Search

1.86

- Options: Wiegand Format. Visible when using Harmony Browser. To be used with Grabba Prox readers.
- Fix: Potential privilege escalations on Card Actions, Command Center, Alarm clearing.

1.85

- New/Edit Card: Perform search for card after successfully editing or creating it
- Options: Configure session expiration (auto logoff)
- Change default session expiration from never to 24 hours.
- Remove expired sessions from memory
- Enlarge touchpoints on touchscreen devices
- Install: Add *Clients* shortcut to Start Menu, brings up clients.aspx
- Advertise installation type (HSE/non-HSE) to Harmony Browser so that it can decode SEIWG encoded smartMax cards.
- Options: Hide functions requiring XML Dev Kit (Command Center and Alarm clearing)
- Login: Show warning if Javascript or Cookies are disabled
- Fix: Malicious user without proper permissions could manually load locator.aspx.
- Fix: Malicious user could custom craft http messages to edit cards across Companies
- Cards: Search and View Notes. Currently, Notes are read-only and wildcards are not supported.
- Card Actions: Hide *Check Access* when no Access Rights assigned
- Fix: Logging to TxnImportTable would fail when the following conditions were met: TxnImportTable contains CompanyID field; CompanyID is not allowed to be null; CompanyID does not have a default value assigned; logging originated from a non-card related source (such as a logon failure).
- New/Edit Card: Better HSE support.
- Card Actions: No longer allow Stop action across Companies for Card Holders. Assuming it was a SMS v6 bug that should not be replicated.
- Respect System Preference: Allow Engineer Access
- Respect System Preference: Card Holders by Company. When enabled in System Preferences in SMS, only cards in the currently selected Company will be shown during searches.
- Respect System Preference: View Menu By Company/Filter By Company. When checked, functions described in SMS help (such as Activity) are filtered by Company. When unchecked, they are filtered by Company Group. Additionally, Alarms are filtered, even though they are not described as filtered in SMS help.
- Alarms, Matrix, Command Center: Change behavior to Filter By Company behavior.

1.84

- Fix: New Card: Creating visitors using a Visitor Management Card Holder wasn't populating VisitorTable.VisitingCardID after import, causing the records to be inaccessible after import
- Fix: Cards: Visitor PD wasn't showing up

1.83

- New/Edit Card: Can take photo and assign to card on iOS (requires Harmony Browser)
- New/Edit Card: Scanning a smart card while on the New/Edit Card screen will populate the Customer Code and Card Number fields with those of the scanned card (requires Harmony Browser on iOS and Chrome/IE/Harmony Browser Agent 1.5 on Windows)

1.82

- Support card searches via raw Wiegand (for Grabba iClass reader)
- Matrix: Display PTZ controls for a camera if PTZ is enabled for that camera in SMS, rather than a client-based PTZ option
- Cards: Entering *visitors* as your search criteria will return all Visitors, and *card holders* will return all Card Holders.
- Install: Uninstall harmony web app, files and application pool on uninstall
- Install: Remove 20 minute default idle timeout recycle worker process in IIS to fix problem of automatic logoff of valid clients when all clients were in a suspended state (Re-run *Configure ASP.NET Permissions* on install and click Save for the new setting to take effect)
- Install: Remove 29 hour default recycle worker process in IIS to fix problem of automatic log off of clients (Re-run *Configure ASP.NET Permissions* on install and click Save for the new setting to take effect)
- Install: Automatically install IIS components on Windows 7/Windows Server 2008
- Install: ASP.NET permission helper utility has ability to create users

1.81

- Support RFIdeas pcProx dongle HID Prox reader (http://www.rfideas.com/products/pcprox_readers/pcprox_enroll/form_factors.php)
- Fix: Alarm: Crash when viewing alarm for Card Holder when no record exists in CardHolderFaceTable for Card Holder.

1.80

- New/Edit Card: Filter Personal Data List Only dropdowns by Company
- License screen: Redesign and bug fixes

1.79

- For generic/barcode searches, search for **criteria** as well as criteria.

1.78

- Fix: New/Edit Card: Problem transferring access rights when access rights shared access IDs across access right types.

1.77

- Fix: New/Edit Card: Data Import crash on HSE

1.76

- Cards: Always show Card Actions link
- Cards: Visitor Management users created through Personal Data tab can only see visitors they create
- New Card: Set Visiting Name to Visitor Management user name for Visitor Management users
- Edit Card: Support changing card number and customer code (beta)

1.75

- Command Center: Predefined Commands (not all command types supported)

1.74

- Fix: Applying license after trial mode sometimes required IIS restart

1.73

- Support for Linea-Pro scanner and Web Barcode iOS app (beta)

1.72

- Fix: New/Edit Card: Crash when Badge Format name is null

1.71

- Sounds on Firefox
- Install: Add default.aspx to default document list
- Install: Register ASP.NET
- Install: Detect required IIS components
- Install: Add configured user to IIS_WPG /IIS_IUSRS

1.70

- Fix: Alarm definition screen crash when WhereName is null
- Fix: Alarm definition wouldn't show if the TxnID didn't also exist in AlarmEventTransactionTable
- Login: Remove link to client list
- Themes (Card screen > Options)

1.69

- Automatically log off most idle client when attempting to log on and Client License limit reached

1.68

- Client License count on login screen now clickable, takes you to a list of logged on clients. Selecting a client from the list and clicking Log Off will remotely log off that client.

1.67

- Track Client Licenses by concurrently logged on users, not by IP address

1.66

- Fix: Installed Web App on iOS was sometimes switching to Safari

1.65

- Fix: Installed Web App on iOS was sometimes switching to Safari
- Activity: Filter

1.64

- Return face resampling to high quality

1.63

- Fix: Muster Options wasn't showing Readers in Reader Group after Reader Group change
- Card Actions: HSE support
- Activity: More clickable Last Names for imported transactions
- New/Edit Card: Disable Access Rights buttons while page is refreshing

1.62

- Fix: New/Edit Card: Error transferring access rights when no time codes exist

1.61

- Fix: Card Action: Edit: Editing only worked on Visitors
- New/Edit Card: Individual Access Rights manipulation

1.60

- Fix: Middle Name on New Card screen would overwrite Last Name
- Fix: Better support for card holders with multiple cards
- Muster Option: Sign Visitors In/Out According to Muster Mode. It will sign visitors in/out on card searches and manual musters. Card Active status is ignored.

1.59

- Fix: iScanBrowser on iOS 5 was showing "Cannot Open Page – Plug-in handled load"
- Regression: Mobile Safari on iOS 5 cannot play audio
- Update Checker now shows changelog

1.58

- Compatible with Harmony Browser Agent

1.57

- Card Action: Edit

1.56

- Bug: Get Device Status was sometimes failing
- Note: "Edit" Card Action is visible but not functional

1.55

- Better Windows 7/.NET 4.0 IIS management
- Include current Company ID in TxnImportTable when column exists

1.54

- Show "You're running IE warning" on login page
- Change virtual directory and nomenclature from "hmh" to "harmony"

1.53

- "Debug Login" item in Start Menu. Click "Bad Login" result on login page to show diagnostics.

1.52

- Allow 21 day trial mode

1.51

- Cache resampled faces
- Limit max search results to 50
- Create alarm on threat level change
- Card Action: Delete
- Show face on alarm detail
- Click last name on muster, alarm and activity screen to perform search for card
- Stop creating alarms when performing a manual search returns an inactive card

1.50

- Alarm beeps on iOS: Mobile Safari

1.49

- Alarm beeps on iOS: iScanBrowser

1.48

- Beep sound on new/cleared alarm
- Bug fixes

1.47

- Allow no search criteria
- Speed up face resampling

1.46

- Async/push updating of alarms, activity, muster
- Cleared alarms aren't clickable in activity screens
- Activity: Select all of today's activity, not just top 200

1.45

- Visitor sign in history display anomaly

1.44

- Alarm/Activity on Matrix was not refreshing with Firefox

1.43

- Fixed hide default/card icon
- Redirect to referring page after changing company
- Matrix: Disable dragging
- Matrix: Click and Hold works on iOS

1.42

- Fixed hide Command Center/Matrix icons

1.41

- Matrix Options: Click and Hold PTZ Mode

1.40

- Matrix fixes
- Update Checker bypasses browser cache

1.35

- Matrix: Presets (Axis)

1.34

- Version bump

1.33

- Matrix Options: View JPEG FPS (default "Unlimited")
- Matrix: page was scrolling to top when zooming
- Command Center: thread status requests
- Matrix: more aggressive reconnect on error (causes infinite loop on camera logon error)

1.32

- Show link to full text of xml dev kit errors on Command Center
- Logging updates: update AlarmEventTransactionTable to include ReaderID and CardID, allows for Locator tab to show Harmony reads and SMS reports to filter by Reader

(consider to be experimental/non-production because it directly updates AlarmEventTransactionTable rows "considered" to be Harmony items—it seems to work as expected)

- Matrix: Axis Video Servers/Axis Cameras (analog) support
- Matrix: Kickstart failed camera images every 10 seconds

1.31

- Searches coming from /hmh/?search=<criteria> no longer use automatic wildcards
- Enclosing search criteria in double quotes will not use automatic wildcards

1.30

- Command Center: Aux Outputs and Monitor Points
- Matrix and Command Center tweaks

1.29

- Matrix: Return axis thumbnail resolutions to 320x240 (from CIF)
- Matrix: PTZ (Axis)

1.28

- Matrix: Alarms and Activity checkbox state was lost after saving from Muster Options
- Login: hash and salt passwords before transmit
- Updated manual

1.27

- Fixed logon failure when SMS muster was not configured

1.25

- Card Actions: Activate was disappearing
- UI tweaks
- Alarm count label shows only "New" alarms
- Hide page icons for which user has no view access
- Matrix: reverse position of Activity and Alarms to match SMS list order
- Matrix: only show cameras in dropdown that belong to the current company
- Matrix: only show views that contain at least 1 camera that belong to the current company
- Options link on main/card screen. Requires modify permissions to Client Preferences
- Options: disable search fields
- Options: disable sounds
- Matrix Options: Force JPEG mode (default)
- Matrix Options: Attempt Auto Authentication on IE
- Matrix: default to previous view/camera
- Command Center: send lock/unlock/grant access to readers. Get device status. Requires xml dev kit.

1.24

- Alarm clearing (requires AMAG XML Developer's Kit)
- "Add to Home Screen" popup on iOS
- Search card holder name as a single unit (FirstName LastName)

1.23

- Update checker

1.22

- Matrix: use DVCameraID instead of CameraNumber
- Matrix: IE support
- Matrix: select individual cameras
- IE8 button size fix

1.21

- Anticipate possible race conditions during high volume
- Muster Options: multiple site mustering and configure device identity
- Matrix: refresh jpgs on Android at 2fps
- Card Action: Card Watch
- Default alarm color to red
- Show reset required alarms in blue, acked alarms in green
- Card Actions: show card status

1.20

- Alarm colors
- Matrix: Alarms and Activity
- Matrix: Display cameras in a grid at 320x240, click to zoom to default camera size, click again to return to view
- Cards: show "more than 100 results returned" when applicable
- Card Action: Activate

1.19

- Matrix Views beta

1.18

- Only pass CardID to Card Actions
- Only Force Inactive and set Card Lost to cards in your current company
- Card Action: Expire
- Locator
- Card Action: Sign visitors in, out, close
- Search Visiting and Visitor Escort when dropdowns are used

1.17

- "Active" was appearing manual mustering inactive cards
- Card Action: Deactivate card (Force, Stop, Card Lost)

- Show "Lost" status on search
- Thread logging
- Log card creations

1.16

- Show option flags like Card Watch and Visitor Escort
- Change search results to table listing

1.15

- iOS Web App support
- Card Action: Access Check

1.14

- Increase visitor border size
- Multiple card statuses, not just active and inactive
- Show date along with "Last Seen At"
- Card Action: Manual Muster
- Fix Access Denied Star Field: Yes sound
- Move to scroll position after calendar click on New Card page

1.13

- Detect HSE installation
- Import Employee Reference
- Hide labels along with controls for disabled import fields
- Fix CAC barcode search
- Card Actions preview
- *Hidden* access to Card Number disables Card Actions
- Show correct PDF titles on search with multiple companies
- Change search box visibility determination to definition dialogs, not listing/reports