# AutoScanNG 2015 Administrator GUIDE



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### Introduction

AutoScanNG is a complete image storage and retrieval system for distributed networks using file level operation.

There are two main components: AutoScanNG (the image storage program) and CReq (image retrieval).

This document is concerned with the configuration and deployment of the system.

### **System Components**

#### **Media Server**

The AutoScan Media Server (service) resides on a windows computer and accepts images from AutoScan Remote Scanner terminals via the SQL server. The images are copied onto the Primary Image Store (for retrieval by CReq clients) AND digitally signed for permanent storage on the Signed Media Store.

### **Peer Group Master**

For configurations where each of the scanning workstations have the same level of authority over the Database, one workstation is designated a "Peer Group Master." This server will perform the same functions as a Media Server except that there are no remote images to process.

### AutoScan Remote Scanners

Windows Workstations fitted with Scanners on which images are scanned, barcode decoded, copied to local Secondary Image stores and transmitted to the SQL server (as a binary object) for processing by the Media server.

### **Integrated System**

This is the general term for systems that integrate with Autoscan. This may be systems like Pathology Laboratory Information Systems (LIS) or Radiology (RIS) systems, or Billing systems (eg MediBILL).

### **SQL Server**

A single Instance of Microsoft SQL Server is used by all AutoScan Remote scanners and the Media server for longitudinal storage of Image Scanning, event and lookup information and for TEMPORARY storage of binary image objects in the queue for processing by the Media Server. It does NOT store the actual images. Typical the SQL server is a domain infrastructure resource and uses redundancy and fail-over technologies to prevent single point of failure scenario.

### Primary image store

A windows file store where images are stored (typically in TIF format) available for READ ONLY access by CREQ Clients. This store is populated by the Media Server or by the Scanning workstation in a Peer Group configuration.

### **Secondary Image stores**

A Windows file store within the same LAN as the scanning workstation used for fail over access to images in the case where the primary store is unavailable or where the Media Server process is unavailable. Secondary image store can also be configured as the PRIMARY source for CReq workstations on a LAN. For example, all CReq clients can be configured to go the closest Image store first rather than to the primary store if there is an advantage in network bandwidth to do so.

### Signed Media Store

This is a long term network storage resource that the AutoScan Media service uses as its permanent archive. This can be a DVD storage device, or removable or permanent network storage.

### **CReq Retrieval System**

The CReq Retrieval system is a way for a user to access images in the Primary and Secondary Image stores. Images are accessed using Windows file shares and security is implemented via Domain groups. With AutoScan 2011 and later, lookup information is sent to the SQL Server via the SQL Relay agent whenever a CReq user accesses an image (Windows and if possible the Integrated system User details).

### SQL Relay Agent

The facilitator that allows the integrated system and CReq to report

### **Image Storage Pathways**

The full pathway for an image as it goes through the system is detailed below:

- The image is scanned as part of a batch of images when either the SCAN or SCAN more button is clicked on the AutoScan Remote workstation.
- 2. The Batch is processed by taking each image in turn and attempting to locate an approved Barcode or Barcodes
- If insufficient barcode information is found, the image is transferred to the PROBLEMS Folder on the AutoScan Workstation for manual attention.
- If a single suitable barcode/barcode combination is found, excess waste space is stripped off and the image is copied to the DECODED folder on the AutoScan Workstation
- If more than 1 suitable barcode/barcode combination is found, depending on the setting, excess waste space is stripped and multiple copies or Aliases of the image are copied to the DECODED folder. Alternatively, the image can be sent to the PROBLEMS folder for manual attention.
- 6. If an Image is sent to the PROBLEMS folder, it must be examined by a person who can then either decide to split the image into multiple copies (if there are multiple barcodes) OR select the single appropriate barcode. Once the manual processing is performed, excess waste space is stripped from the image and it is sent to the DECODED folder.
- 7. Once Decoded, the SQL database is updated with the image information indicating that the image is SCANNED.
- Once the SQL Database is updated to SCANNED state, a copy of the image is sent to the LOCAL Image Store for that workstation (which might be the primary or a secondary store). From that point, the image is available to CREQ users to view.
- At this point, Integrated systems are be able to detect that an image has been scanned for that barcode number/combination via the SQL server "SENT TO SYSTEM" Flag

- 10. The image is MOVED from the DECODED folder to the BKPIMG folder on the local workstation.
- 11. Periodically, EACH AutoScan Remote Scanner reviews the status of Images in the SQL database that have NOT been transmitted to the Media Server/Peer Group Master. Each image is copied from the BKPIMG folder to the SQL server as a binary SQL object. The AutoScan Remote Scanner then considers its tasks complete.
- 12. On the MEDIA Server, images arriving as a binary Object type are selected for processing.
- 13. Each image in turn is converted back to file format and written to the MEDIA server's DECODED folder. When successfully written to the decoded folder, the binary SQL copy of the image is DELETED from SQL.
- 14. Images arriving in the Media servers DECODED folder follow the same key steps as the Remote workstation.
- 15. A copy of each image in the DECODED folder is sent to the PRIMARY Image store. From this point, the image is retrievable by CREQ clients from the Primary store OR the Secondary store
- 16. The database is updated to reflect that the image is now available on the Primary scanner.
- 17. The Media Server then copies the image to its BKPIMG folder.
- 18. MediPath should now detect that the image has changed state and update its scanning records for that Barcode number.
- 19. Periodically, the Media server selects for images that need to be allocated to a ZIP archive. Each image selected is digitally signed using the Installed certificate and added to the appropriate ZIP archive. If no suitable ZIP archive exists, a new ZIP archive is automatically created.
- 20. Once a zip archive reaches 100 images OR the Flush Media button is click on the Media Servers User interface, the ZIP archive is copied to the permanent storage device.

- 21. If the Permanent storage device is a DVD, the MEDIA NAME is used as the reference. If the permanent store is a network storage device, then name of the SUBFOLDER under which the zipfile is stored is used as the reference. For network storage devices, the AutoScan system can be configured to automatically create new subfolders as they are required (eg by week/month/year)
- 22. Integrated Systems will detect the change in status once the image is permanently archived and update its scanning records for that barcode number
- 23. Image storage is complete.

# **Image Retrieval Pathways**

There are two key considerations for the configuration of retrieval pathways. Network bandwidth followed by File server load balancing.

It is possible for CReq to be configured to retrieve images from a number of Image stores in specific order. In some network environments, there a differences in network access performance or cost depending on the physical location of the Image stores. In other environments, where there are shared server farms, there may be no speed or bandwidth advantages. In either case, we would usually still configure specific Image stores for specific tasks to distribute workload.

Whether bandwidth is an issue or not, it is preferable for CREQ to be configured to always access the image stores in "most likely to least likely" order.

### Scenario 1

Assuming the following Hypothetical configuration:

- Main Site Server farm (2 Image Stores)
  - Primary Image store for ALL sites
  - Secondary Main image store (for images scanned at the Main Pathology Lab)
- Satellite Site server farm (1 Image Store)
  - Secondary Satellite image store (for images scanned at the Satellite Pathology Lab).

In this scenario, Images scanned at the Satellite lab are most likely to be accessed by CReq Workstations in the Satellite site. Sometimes, it may be necessary to access images on scanned on workstations in the Main Site (presumably far less often than the former). The same applies for the Main site – the Main Site workstations will require access to images scanned at the Main site far more often than from the Satellite site.

Should it be the case that one of the image stores becomes unavailable, most likely the site will still have access to any image which should be present in an alternate store.

The best CREQ configuration at the Satellite Site in this scenario would be to set:

**Default Image Store**: Secondary Satellite Image store **Alternate 1**: Primary Image Store **Alternate 2**: Secondary Main Image store

This allows images scanned at the Satellite to be accessed at the Satellite site without traversing the WAN. Images scanned at the primary site can be accessed from primary image store. If the Satellite Image store goes down, the Satellite Images can be still be retrieved from the Primary store across the WAN. In the case of a primary image store failure or a Media processing failure, images scanned at either site, can still be located on either of the two secondaries.

At the Main Site the best CREQ configuration under this scenario would probably be:

**Default Image Store**: Primary Image Store **Alternate 1**: Secondary Main Image store **Alternate 2**: Secondary Satellite Image store

Although, might also be suitable depending on workloads and timing (remember secondary have the image up to a few minutes BEFORE the primary)

**Default Image Store**: Secondary Main Image store **Alternate 1**: Primary Image Store **Alternate 2**: Secondary Satellite Image store

### Scenario 2

Alternate scenario where the server farm is shared by both sites and there is no real network bandwidth advantage. IE:

- Central Server farm
  - Primary Image store
  - Secondary Main image store
  - Secondary Satellite image store

The best CREQ configuration at the Satellite would be to set:

**Default Image Store**: Secondary Satellite Image store **Alternate 1**: Primary Image Store **Alternate 2**: Secondary Main Image store

For the Main site:

**Default Image Store**: Secondary Main Image store **Alternate 1**: Primary Image Store **Alternate 2**: Secondary Satellite Image store

### Scenario 3

It is also possible to utilise just single secondary image store where there is no specific bandwidth or load balancing advantages. IE

- Central Server farm
  - Primary Image store
  - Secondary image store

Both sites would have the same CREQ configuration Default Image Store: Primary Image Store Alternate 1: Secondary Image store

The difference in this case is that there is a single point of failure at the secondary store.

### Installation

### **Configuring SQL Server**

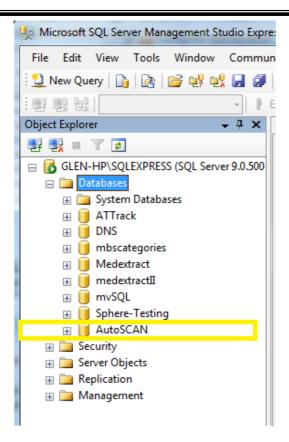
AutoScan Requires Microsoft SQL Server 2005 or later. An instance of SQL Server must be accessible on the network to any workstation that intends to act as a Scanning workstation.

The overhead on a SQL server for a AutoScan system is generally very low. Only the metadata, not the image files themselves, are stored within the database. Typically, systems containing millions of images would require less than 10MB of SQL Space.

In terms of traffic, the largest overhead is the exchange of Binary Image objects from the scanning workstations when running in . The images are uploaded by the workstations to the SQL server and downloaded again by the

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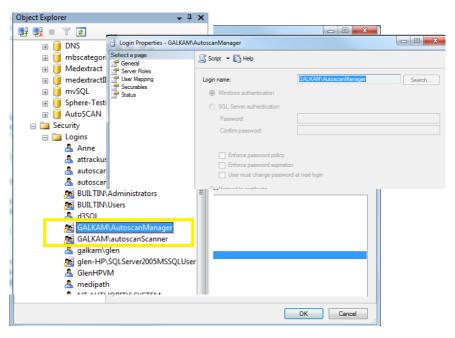
### **Database Security Settings**

#### Active Directory Domains

Configure Domain Groups in your Active Directory System

Active Directory Users and Computers			
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InstallAware Wizard X  The InstallAware Wizard is verifying the contents of this setup package. This may take a moment.  Cancel
Autoscan NG - InstallAware Wizard – – × Galkam PTY LTD Autoscan NG
Welcome to the InstallAware Wizard
It is strongly recommended that you exit all Windows programs before running this Setup Program. Click Cancel to quit Setup and close any programs you have running. Click Next to continue with the Setup program.
WARNING: This program is protected by copyright law and international treaties. Wauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.
InstallAware <u>Continue</u> <u>Cancel</u>

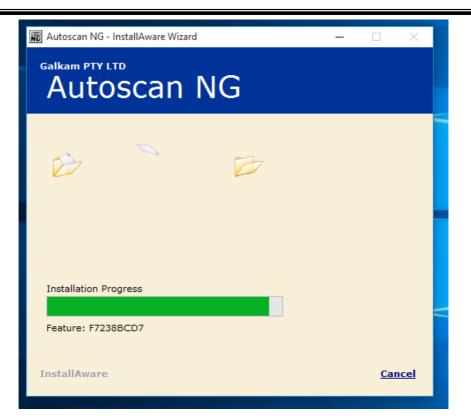
🕡 Autoscan NG - InstallAware Wizard 🦳 🗆 🖂
Galkam PTY LTD Autoscan NG
Galkam PTY LTD LICENSE AGREEMENT Licensed Product: Autoscan "NG" 2015 SUITE Do You Accept This Agreement? This is a legal agreement between You (individually or on behalf of your company) and Galkam PTY LTD ('Galkam') for the use of the Licensed Product described above. By signing this document below and proceeding with the installation, You confirm that (i) You have read this License Agreement, and (ii) You agree to be bound by its terms and conditions. If You disagree with or do not accept any of the terms of this License Agreement, You may cancel this transaction by notifying Galkam and returning the product media (if any) with your receip to the authorized supplier of accept the agreement
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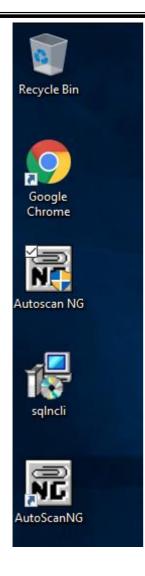
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Despite the Animated icon, the install will not proceed until you click "continue"



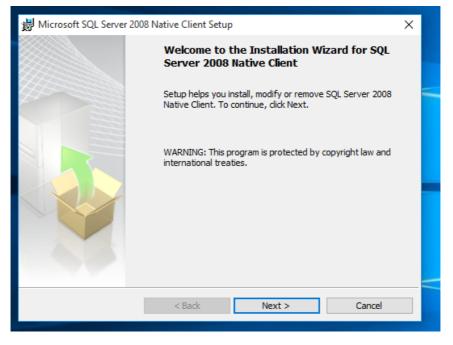
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	Autoscan NG		
	Setup is complete.		
	Run Autoscan NG now		
Т	nstallAware	Done	
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NOTE: On Windows 10 (with User Account control turned on, Autoscan will not autostart).



Autoscanng	×
Microsoft SQL CLIENT Driver not deter	ted. Autoscan will close.





闄 Microsoft SQL Server 2008 Native Client Setup	Х		
License Agreement Please read the following license agreement carefully.			
MICROSOFT SOFTWARE LICENSE TERMS			
MICROSOFT SQL SERVER 2008 NATIVE CLIENT			
These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft			
<ul> <li>I accept the terms in the license agreement</li> <li>I do not accept the terms in the license agreement</li> </ul>			
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劇 Microsoft SQL Server 2008 Native Client Setup	×		
Registration Information The following information will personalize your installation.			
Enter your name and the name of your organization in the fields below.			
Name:			
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Feature Selection Select the program features you would like to install.	
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谢 Microsoft SQL Server 2008 Native Client Setup X			
Ready to Install the Program			
Setup is ready to begin installation.			
Click Install to begin the installation.			
If you want to review or change any of your installation settings, dick Back. Click Cancel to exit Setup.			
< Back Install Cancel			
🗣 User Account Control X			
Do you want to allow this app to install software on your PC?			
Program name: SQL Server 2008 Verified publisher: <b>Microsoft Corporation</b> File origin: Hard drive on this computer			
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#### Install in the Wrong Native client? 64 Bit

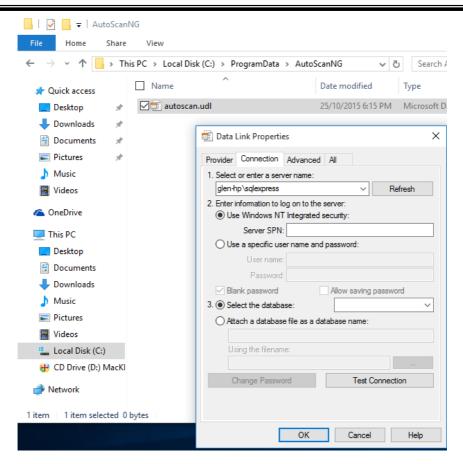


Autoscan Configuration

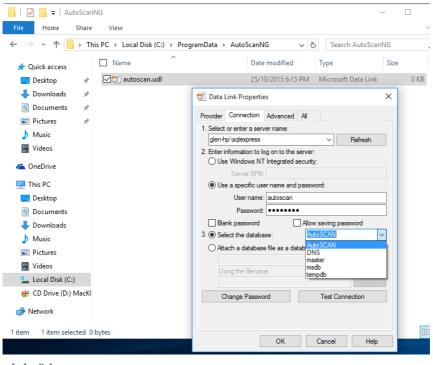
😌 User Account Control	×	
Do you want to allow this app to make changes to yo PC?	our	
Program name: AutoScanCfg.exe Verified publisher: Galkam PTY LTD File origin: Hard drive on this computer		
Show details Yes No		
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Microsoft Data Link	×	
Provider cannot be found. Ensure that the provider has been installed properly.		
OK		

This folder is empty.			
Folder Options X			
General View Search			
Folder views			
You can apply this view (such as Details or Icons) to all folders of this type.			
Apply to Folders Reset Folders			
Advanced settings:			
Always show icons, never thumbnails			
Always show menus			
Display file icon on thumbnails			
Display file size information in folder tips			
Display the full path in the title bar			
Hidden files and folders			
Don't show hidden files, folders, or drives Show hidden files, folders, and drives			
Hide empty drives			
Hide extensions for known file types			
✓ Hide folder merge conflicts			
✓ Hide protected operating system files (Recommended)			
Restore Defaults			
OK Cancel Apply			

Recycle	File Home Share	View		
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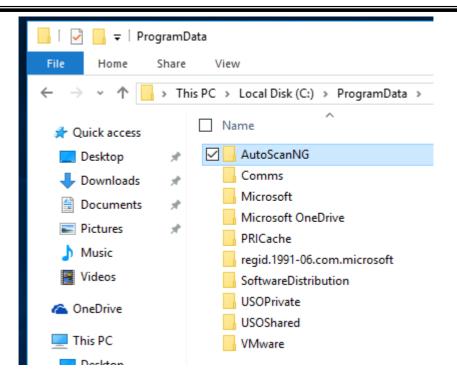
Non Domain User :



[oledb]

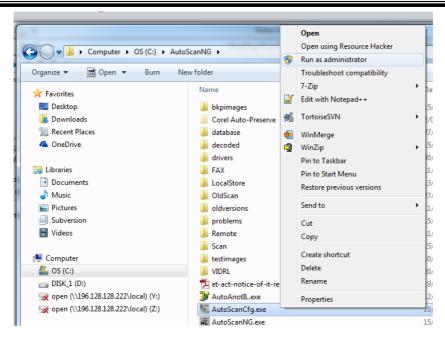
```
; Everything after this line is an OLE DB initstring
Provider=SQLOLEDB.1; Password=MySecrectPassword; Persist Security
Info=True;User ID=autoscan; Initial Catalog=AutoscanBedStay; Data
Source=W2K8VMSERVER\SQLEXPRESS
```

Note that the CASE is important – you must use "Password" ("password" will not work).



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Database Tables (Version 2015)			
AutoscanConfigs AutoscanUsersAndDomainGroups	Run Creation Scripts		
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DocumentDetection			
EventTypes ImageData			
ImageEvents LabelGroups RemoteImage			
Recommendation: Test Database Connection			

<table-of-contents> AutoScan Configuration</table-of-contents>	
File Settings	
Scanning   Barcode   Directories   Documents and Security	Database
Database Connection   Database Connection  NOT Connected	
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✓ TaskQueue ✓ TaskTypes	





### Scanning

Standard AutoScan Configuration		
Eile Settings		
Scanning Barcode Directories Documents and Security		
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Sign with (PKI) Certificate Image Signing My Certificate Common Name general.800362156668	CA UserDS TrustedPublisher Disallowed AuthRoot	http://ns.electronicheal
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3.3 1.10	Image Signing	
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	Certificate Common Name	Cheditenene Ceall SeaCT LeCANBERRA OeHLTest Site Certific
	Serial Numbe	CN=gien
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		C-AU, S-VIC, L-HUGHESDALE, O-LRS Health, OU-L -

### Barcode:

🖏 AutoScan Configuration	– 🗆 X					
File Settings						
Scanning Barcode Directories Documents and Securit	y Database					
Search For barcode sizes           Tiny 2 bar         Tiny 4 bar           Small 2 bar         Small 4 bar           Standard 2 bar         Standard 4 bar	Entity Barcode Validation Allowed Barcode Validation					
Large 2 bar     Large 4 bar       # of Digits in barcode     5     to	Search Options					
Barcode Formats CODABAR Codabar Check Digit Codabar Stat Char 'A' Codabar Stat Char 'B' Codabar Stat Char 'C' Codabar Stat Char 'C' Codabar Stat Char 'D'	Search Target Area only     Search Target Area then Whole Document     Always search whole document     Search Whole Document and crop  Other Options  Punctuation not valid					
CODE 39 Code39 Check Digit CODE 25 Code 25 Check Digit Code 25 Drop Leading 0 CODE 128 CODE	Scanner's Deskew mode leaves remnant     Automatically Invert     Stop searching after first barcode     Background is White     Auto Accept ALL Entity barcodes (Duplicate)     Auto Accept ALL Entity barcodes (Alias)     Auto Accept ALL Allowed barcodes (Alias)     Require Document Detection					
False Positive Threshold 3 -	Scan every Second 💌 line					
Friendly Entity Name Request Fo	orm <u>E</u> xport Config					
The number of digits in your barcodes. In most c	ases you should set the range to the same value (eg 7, 7)					

AutoScan Configuration	– 🗆 X
Scanning Barcode Directories Documents and S	Security Database
Search For barcode sizes	Entity Barcode Validation
Tiny 2 bar     Tiny 4 bar       Small 2 bar     Small 4 bar       Standard 2 bar     Standard 4 bar       Large 2 bar     Large 4 bar	Allowed Barcode Validation
	Search Ontions
AutoScan Directory information	t ramData\AutoScanNG\Scan does not exist.
CODE 25 Code 25 Check Digit Code 25 Drop Leading 0	Auto Accept ALL Entity barcodes (Duplicate)     Auto Accept ALL Entity barcodes (Alias)     Auto Accept ALL Allowed barcodes (Alias)     Require Document Detection
False Positive Threshold     3       Friendly Entity Name     Requirement	▼     Scan every     Second     ▼     Iine       uest Form     Export Config
The number of digits in your barcodes. In n	most cases you should set the range to the same value (eg 7, 7)

### **Directories**

S AutoScan Configuration	
<u>File</u> <u>Settings</u>	
Scanning Barcode Directories Documents and	Security Database
Scan Directory	C:\AutoScanNG\Scan
Problems Directory	C:\AutoScanNG\Problems\
Decoded Directory	C:\AutoScanNG\Decoded\
Remote Scanner Directory	C:\AutoScanNG\Remote\
View Image Destination	\\galkserv\images\
Image Pattern	XXXX
Backup Destination	C:\autoscanng\BKPImages\
CD-Writer/ScanServer drive	\\galkserv\images\MEDIA\1234567
Remote Fax/Scan TO Directory	C:\autoscanng\fax\
<u>1</u>	

# **Documents and security**

File Setting					1						
		Director	ies Do	cuments and Securit	у						
Security Setti	ngs	Doma	in								
✓ Enabled											
		GALKA	AM	•				am			
Documents						e0		GALKAM	•		
Reference	Tag	Size	TZone	Description		Gr	Tag	Size TZone	Description	Group	
A5	A	1480	14	Chandrad & E. Damas	st Form approximately A5 size.				Standard A5 Request Form approximately A5 size.		AM
	~						M 8		Medicare claim voucher A4 size requests.	Med	Delete A5
Medicare	м	900	100	Medicare claim vou	cher	M			A4 Doctor Pented With Tear of Patient Copy		Set Domain Group
A4	В	2900	33	A4 size requests.							
Tear Off	С	2400	33	A4 Deater Brinted )	Vith Tear off Patient Copy						
				dded to file name. He	Be index independent           The index independent index		1	fraction.			