

Diagnostic Ultrasound System  
DICOM Quick Guide FAQ Manual

# Intellectual Property Statement

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'.'     Common 8ail0re; M0lti4rame transmission is 4ailed, <0t sin!le 4rame is s0cceded.....	' ,
'.,     Common 8ail0re; =et9or* disconnected 6sho9n <y net9or* icon7 d0rin! transmission ....	' ,
'.(     Common 4ail0re; ) or*list >Oery s0cceded, <0t no 5atient is sho9n .....	' ,
'..     Common 4ail0re; &rintin! s0cceded <0t the 4ilm is <lan* .....	' ,
'..+    Common 8ail0re; 3eri4ication o4 connectin! #%M 5rinter is s0cced <0t 5rintin! is 4ailed	' (
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(ote) Be4ore 0sin! #C%M, 5lease read the electronic 4ile #C%M

# Preset

## DICOM Preset

To open the DICOM Preset screen;

1. Press BSet05C key to show the Set05 menu.
2. Move the cursor onto D#%M12L+ &reset to open the screen, you can set 05 the Localhost #%M Service &erty, Server Setting and #%M Services, as shown in figure 1 #%M &resetScreen;

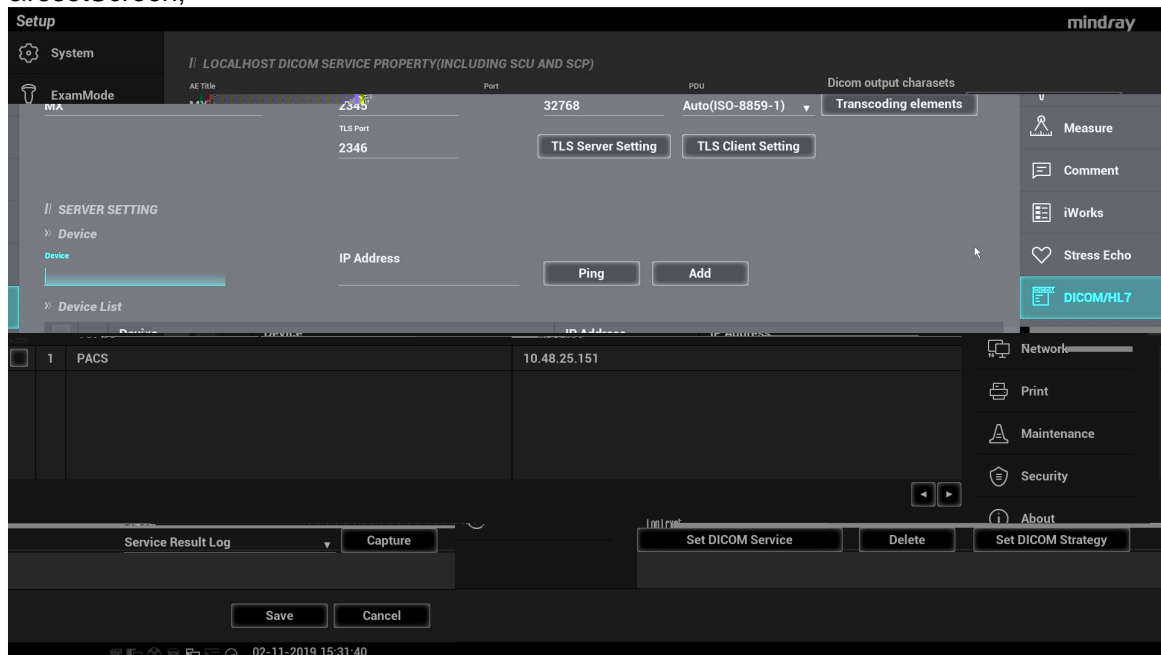


Figure DICOM Preset Screen

The main 5 parameters of localhost #%M Preset are described as follows;

Parameter	Description
AE Title	Application Entity title.
Port	#%M communication port, 2', ( is default.
Port	#%M :LS communication port, 2', . is default.
Max Data Element Size	Maximum data element size, range from 1 - , to ( ' . If the value is less than 1 - , or greater than ( ' , the system automatically sets it to the value '2+ . - .
Dicom output charsets	Transcoding the files and messages of dicom service exported

	<y the #o55ler.
:ranscodin! elements	#ate elements listed are transcoded <y dicom character set <e4ore e?5ort.
:LS Ser"er Settlin!	Se"er-side certi4icate mana!ement.
:LS Client Settlin!	*eri+y Certi+icate; :he 5recondition o4 the #C%M :LS ser"ices. :he #icom ser"ices chec*ed :LS 9ill 3eri4y Certi4icate in term o4 selected G3eri4y Certi4icateH. Import &o5 G5m5ort :LS certi4icatesH dialo!0e the :y5e com<o? "al0e ha"e &EM and CE . Delete #elete the im5orted :LS certi4icates.
#e"ice	=ame o4 the de"ice s055ortin! #C%M ser"ices.
\$& Address	\$& address o4 the ser"er.
&in!	Chec* 9hether \$& Address can connect normally or not.
Add	Clic* to add ser"er 6s7 to the #e"ice List.
Set #C%M Ser"ice	Set the attri<0tes o4 #C%M Stora!e, &rint, ) or*list, M&&S, Stora!e Commitment and /1 .
#elete	Clic* to delete the selected ser"er 6s7 in the de"ice list.
Set #C%M Strate!y	Set #C%M strate!y 4or do55ler to <e com5ati<le 9ith other "endorsl &ACS
Lo! Le"el	Sets the lo! le"el.
Ca5t0re	Ca5t0re the dicom net9or* 5ac*et.

\$n the a<o"e screen, 5lease enter AE :itle, &ort, and &#@ accordin! to the act0al sit0ation, and then clic\* !Sa"eE to e?it the screen.

:i5;

- AE :itle sho0ld <e the same 9ith the SC@ AE :itle 5reset in the ser"er 6&ACS! \$S12\$S7, 4or e?am5le, i4 the AE :itle o4 the ser"er 5reset in the 5rint ser"er is &rinter, and the AE :itle o4 the acce5ted SC@ is 5reset as Machine, then in the 4i!0re a<o"e, the AE :itle o4 Local sho0ld <e Machine, and the AE :itle o4 5rint ser"er sho0ld <e &rinter.
- :he de"ice name can <e entered to yo0r 5re4erence. \$4 the c0rrently entered name has already e?isted, the system 9ill sho9 a ti5; G:he ser"er name e?istsJH Clic\* D%KE to enter another name.
- &ort m0st not <e set as ,001, .000, '001, .(((.
- \$& address m0st <e the act0al \$& address o4 the ser"er.
- Set #C%M Strate!y
  - a. :he #C%M strate!y m0st <e con4i!0red <y >0ali4ied 5ersonnel 9ith !ood \*no9led!e o4 #C%M standards.
  - <. :he >0ali4ied 5ersonnel m0st ens0re the "alidity o4 the #C%M strate!y.
  - c. #icom strate!y s055orts e?5ort and im5ort.
- Ca5t0re Mainly 0sed 4or en!ineer 5ositionin! 5ro<lem.

## 2.1 DICOM Service Preset

To open the DICOM Service screen;

1. Press B/Set key to show the Set menu. Move the cursor onto the DICOM M2L+ & reset item to open the screen.
2. Click the DICOM Service to set the attributes of services.

After DICOM is installed and DICOM ) or list, M&S, and Query retrieve are optionally configured, there will be related screen for resetting.

## 2.2 DICOM Storage Preset

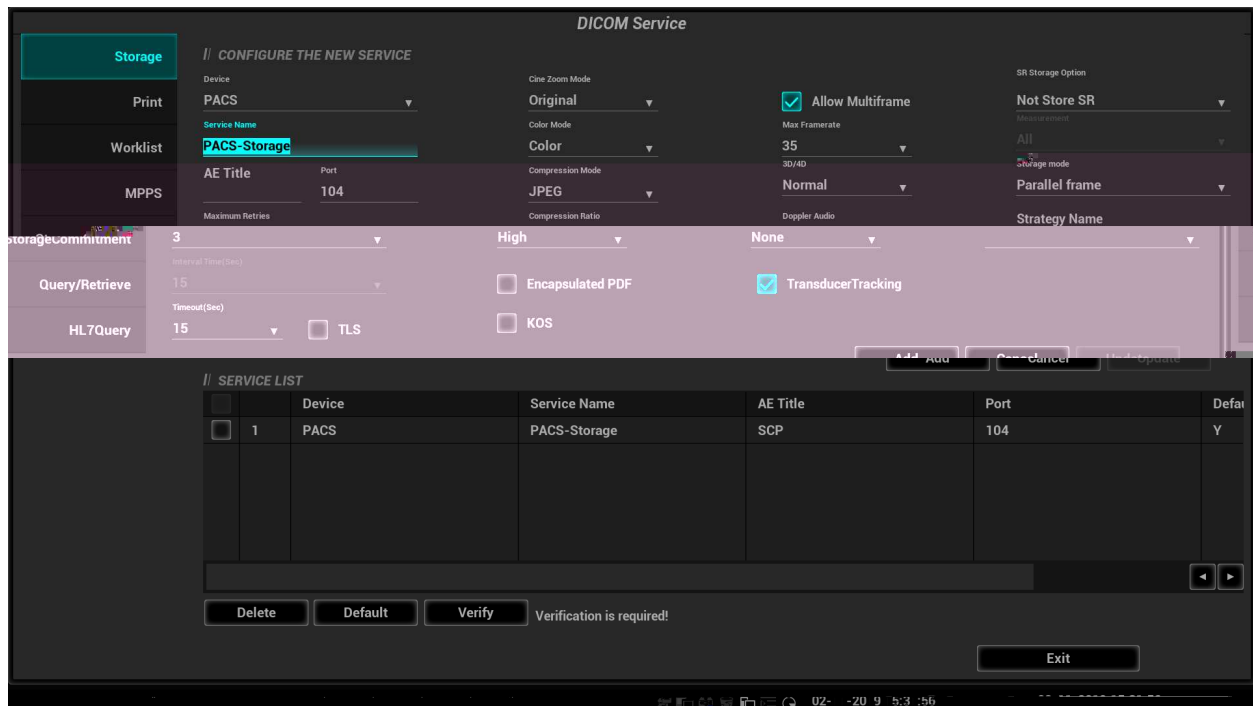


Figure 2-1 DICOM Storage & reset Screen

The main 5 parameters of DICOM Storage are described as follows;

Parameter	Description
Service name	After you set the service list in the DICOM Service screen, the name list will appear in the dropdown list, select the name of the storage service.
Service name	Default is ???-Storage, User-changed.
AE Title	Application Entity title, here, it should be consistent with that of the storage service.
Port	DICOM communication port, 10, is default. Here, the port should be consistent with that of the storage service port.
Maximum retries	0-9 times are optional, the default is 1, if the DICOM storage task that is sent to this service is failed, the task will be retried automatically, the retry times is set here.
Interval Time Sec	(0-100 seconds, 10 seconds is default. 60 seconds)

: imeo0t Sec	e4ers to the amo0nt o4 time a4ter 9hich the system 9ill sto5 tryin! to esta<lish a connection to the ser"ice. 3al0e; (-.0s, in increments o4 (s, and 1 ( is de4a0lt.
: LS	:ransmission encry5tion 9hen it is selected.
Cine Loom Mode	%ri!inal, -, 0M, -0, 10, -M.00, 1, 00M+. - are o5tional, the de4a0lt is %ri!inal.
Com5ression Mode	@ncom5ressed6:he ima!e is Oncom5ressed7 LE6:he ima!e is lossless com5ressed7 N&EO6&lease re4er to the in4ormation o4 5ro"ider to con4irm 9hether SC& can s055ort N&OE com5ression. \$4 not, 5lease do not select it7 are o5tional, the de4a0lt is N&EO.
Com5ression atio	LossLess, 2i!h, Middle and Lo9, three *inds o4 Com5ression atio are o5tional. Com5ression atio is in in"erse 5ro5ortion to ima!e >0ality.
Color Mode	: hree o5tions are a"aila<le, Color means the ima!es sent 4rom system to ser"er 9ill <e coded <y 2, <it, Mi?ed means the ima!es sent 4rom system to ser"er 9ill <e coded <y -<it or 2, <it de5ends on 9hether the ima!es themsel"es are ca5tored in color ima!in! mode or colorize s9itch is in GonH state or not, i4 they do so, 9ill <e coded <y 2, <it, else -<it. Oray means the ima!es sent 4rom system to ser"er 9ill <e coded <y -<it. :he de4a0lt is Color.
Allo9 M0lti4rame	\$4 SC& s055orts this 4onction, then select it.
Ma? 8ramerate	2(, '0, ' (, 80ll are a"aila<le, 0ser-chan!ea<le
' #P, #	=ormal, a9data, 3o!0me are o5tional 9hen sendin! the '#P, # ima!e 4iles, the de4a0lt is =ormal.
S Stora!e %5tion	: hree o5tions are a"aila<le 9hen Str0ctored e5ortin! is needed to send. Qo0 can select GAttach S ) hen Store \$ma!esh, G%only Store S H, or G=ot Store S R.
Meas0rement	: hree o5tions a<o0t meas0rement dis5layin! are a"aila<le 9hen Str0ctored e5ortin! is needed to send " Sin!le" and " All" .
Enca5s0lated &#8	Enca5s0late a &#8 doc0ment 9ithin the #CM 4ile. \$4 SC& s055orts this 4onction, then select it, the de4a0lt is Onselected.
#o55ler A0dio	=one, M&EOSM& T ML are o5tional. =one means the a0dio 9ill <e not sent and M&EOSM& T ML means the a0dio and ima!e 9ill <e coded 9ith M&EO2 Main Le"el
Stora!e Mode	&arallel 4ile, &arallel 4rame are o5tional, &arallel 4ile is de4a0lt. &lease re4er to the in4ormation o4 SC& to con4irm 9hether SC& can s055ort em5ty Basic %44set :a<le 6zero len!th7 o4 enca5s0lated M0lti-8rame ima!e. \$4 not, 5lease do not select it
:ransd0cer :rac*in!	ecord the 5ro<e S! = n0m<er in the dcm 4iles sent to the ser"er
K%S	Send the in4ormation o4 *ey ima!e to the ser"er.
Strate!y =ame	Set dicom Strate!y 4or chosen dicom ser"ices.
Add	Add the #C%M ser"ice to the ser"ice list.
Cancel	Clic* to cancel 5arameter 5reset.

@5date	Select an item in the ser"ice list, chan!e the 5parameters in the a<o"e area, and clic* D@5dateE to O5date the item in the ser"ice list.
#elete	Clic* to delete the selected ser"ice in the ser"ice list.
3eri4y	Clic* to "eri4y i4 the t9o #C%M a55lication entities are normally connected.
#e4a0lt	Select an item in the ser"ice list, clic* D#e4a0ltE and yo0 can see GQH in the #e4a0lt col0mn.
E?it	Clic* to e?it the screen.

:i5;

- N&EO is one o4 the stora!e ty5es, <ot not all SC&s can s055ort it. &lease refer to the electronic file #C%M C%=8% MA=CE S:A:EME=: to chec\* 9hether SC& s055orts this 40nction.
- AE :itle and &ort m0st <e consistent 9ith those o4 ser"er.
- Clic\* the item in Ser"ice List to modi4y the 5parameters and clic\* D@5dateE to O5date them.
- Qo0 can clic\* D#eleteE to delete the item in Ser"ice List.

## !!! DICOM Print Preset

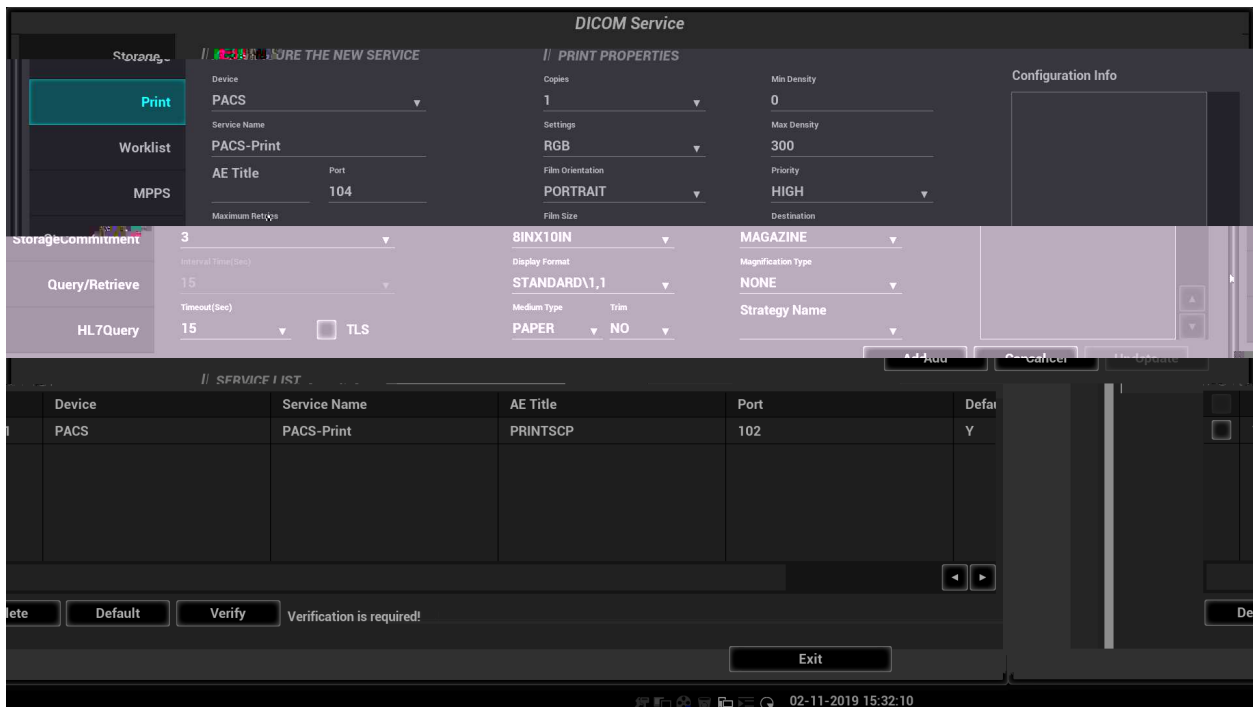


Figure \$ #C%M &rint &reset Screen

: he main 5parameters o4 #C%M &rint are descri<ed as <elo9;

(ame	Description
#e"ices	A4ter yo0 set the ser"er 6s7 in #C%M Ser"er screen, the name 6s7 9ill a55ear in the dro5-do9n list, select the name o4 the 5rint ser"er.
Ser"ice name	#e4a0lt is ???-&rint, 0ser-chan!ea<le.
AE :itle	A55lication Entity title, here, it sho0ld <e consistent 9ith that o4 the 5rint ser"er.
&ort	#C%M comm0nication 5ort, 10, is de4a0lt. 2ere, the 5ort sho0ld <e



## Monet Series Diagnostic Ultrasound System

	consistent with that of the printer server port.
Maximum retries	0-9 times are optional, the default is 3. If the DICOM storage task that is sent to this server is failed, the task will be retried automatically, the retry times is set here.
Interval Time Sec	(1-100 seconds, 10 seconds is default. 6 reserved)
Timeout Sec	Refers to timeout during association establishment. 3-100; (-10s, in increments of 5s, and 10 is default.
LS	Transmission encryption when it is selected.
Strategy name	Set DICOM Strategy for chosen DICOM services.

Co5ies

#e4a0lt	Select an item in the ser"ice list, clic* D#e4a0ltE and yo0 can see GQH in the #e4a0lt col0mn.
E?it	Clic* to e?it the screen.

%ips)

: he 5parameters 5reset sho0ld <e meet the re>0irements o4 5rinter, 4or instances;

1. \$4 the 5rinter cannot s055ort the D8ilm SizeE o4 -\$=M10\$, 5lease modi4y it that the 5rinter can s055ort.
2. \$t 9ill im5lement color 5rintin! 9hen DSettin!sE is set as OB, <lac\* and 9hite 5rintin! 9hen it is set as M%=%C2 %ME2.
3. 8or DMedia :y5eE, select BI0e 8ilm or Clear 8ilm 4or <lac\* and 9hite 5rintin!F select &a5er 4or color 5rintin!.
4. ,. %ther 5parameters can 0se de4a0lted "al0es. \$4 there are s5ecial re>0irements 4or 5rinter, 5lease modi4y it.

## !. \$ , orklist Preset



Figure # #C%M ) or\*list &reset Screen

: he main 5parameters o4 #C%M ) or\*list are descried as <elo9;

(ame	Description
#e"ices	A4ter yo0 set the ser"er 6s7 in #C%M Ser"er screen, the name 6s7 9ill a55ear in the dro5-do9n list, select the name o4 the ) or*list ser"er.
Ser"ice name	#e4a0lt is ???- ) or*list, 0ser-chan!ea<le.
AE :itle	A55lication Entity title, here, it sho0ld <e consistent 9ith that o4 the ) or*list ser"er.
&ort	#C%M comm0nication 5ort, 10, is de4a0lt. 2ere, the 5ort sho0ld <e consistent 9ith that o4 the ) or*list ser"er 5ort.

Maximum Retries	0-9 times are optional, the default is 3. 6 is reserved
Interval Time Sec	(1-100 seconds, 10 seconds is default. 6 is reserved)
Timeout Sec	(1-100s, in increments of 10s, and 10 is default. Timeout is the connect time of Association.
SSL	Transmission encryption when it is selected.
Strategy Name	Set dicom Strategy for chosen dicom services.
Remove Attribute	Manually delete the data elements within the service list message, unchecked elements in the list will not be sent.
Add	Click it to add the selected service to the service list.
Cancel	Click to cancel parameter reset.
Modify	Select an item in the service list, change the parameters in the attribute area, and click Modify to modify the item in the service list.
Delete	Click to delete the selected service in the service list.
Verify	Click to verify if the two DICOM application entities are normally connected.
Default	Select an item in the service list, click Default and you can see the default value in the Default column.
Exit	Click to exit the set screen.

## 1.1.3 MPPS Preset

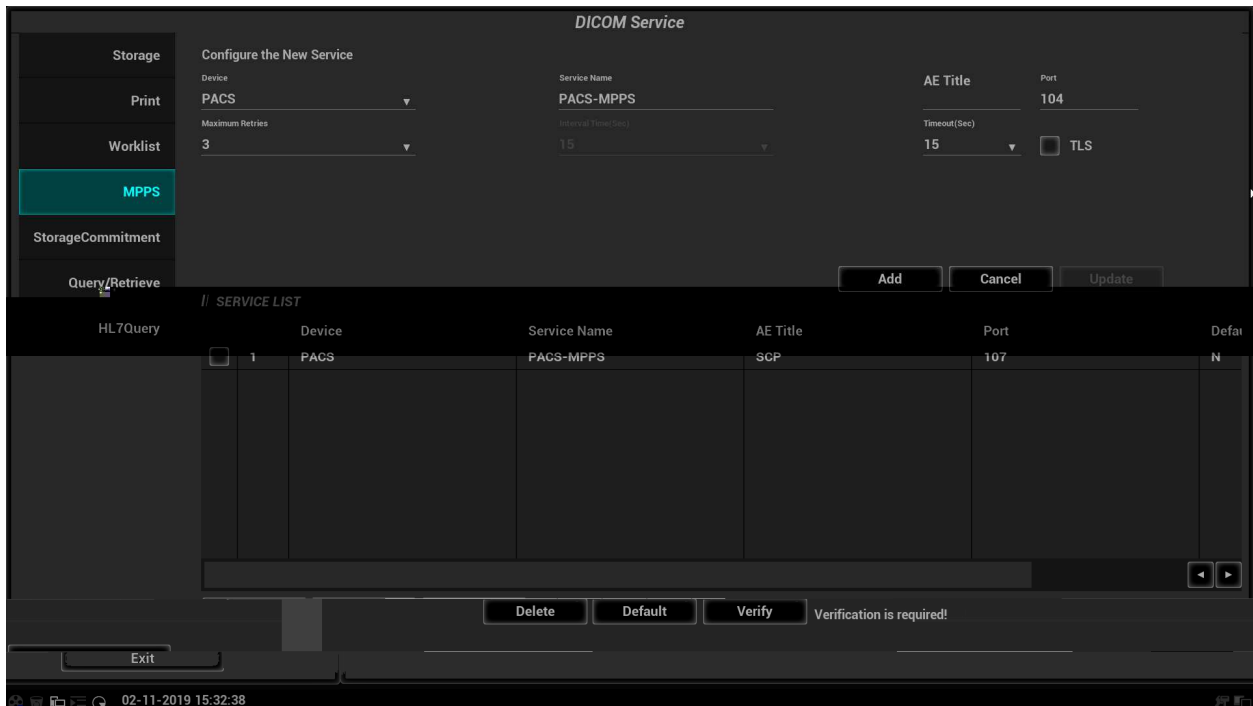


Figure - DICOM M&S &reset Screen

The main parameters of DICOM M&S are described as follows;

Parameter	Description
Server name	After you set the server name in the #C%M Server screen, the name will appear in the drop-down list, select the name of the M&S server.
Server name	#e4a0lt is ???- ) or *list, 0ser-chan! ea<le.
AE title	Application Entity title, here, it should be consistent with that of the M&S server.
Port	#C%M communication port, 10, is default. Here, the port should be consistent with that of the M&S server port.
Maximum retries	0-9 times are optional, the default is 1. In the #C%M storage task that is sent to this server is failed, the task will be retried automatically, the retry times is set here.
Interval Time Sec	( 1-00 seconds, 1( seconds is default. 6 reset
LS	Transmission encryption when it is selected.
Timeout Sec	(-10s, in increments of 1s, and 1( is default. After user sends M&S for 1( seconds, the connection will be closed.
Add	Add the #C%M server to the server list.
Cancel	Click to cancel parameter reset.
@5date	Select an item in the server list, change the parameters in the above area, and click @5date to update the item in the server list.
Delete	Click to delete the selected server in the server list.
Verify	Click to verify if the two #C%M application entities are normally connected.
#e4a0lt	Select an item in the server list, click #e4a0lt and you can see GQH in the #e4a0lt column.
Exit	Click to exit the reset screen.

Tip) You should set M&S as default server when you use it.

## 1.1. Storage Commitment Preset

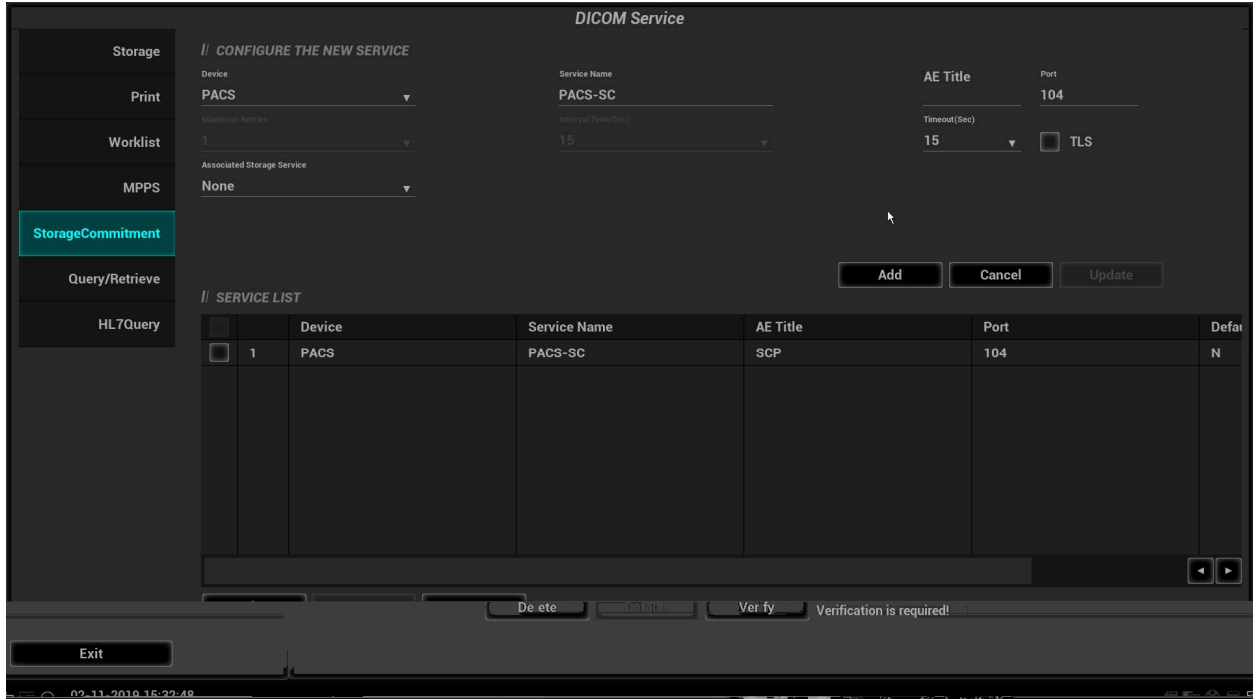


Figure 1. DICOM Commitment & reset Screen

The main 5 parameters of storage commitment are described as follows;

Parameter	Description
Service name	After you set the server list in DICOM Server & reset screen, the name list will appear in the dropdown list, select the name of the server.
AE title	Application Entity title, here, it should be consistent with that of the storage commitment server.
Port	DICOM communication port, 10, is default. Here, the port should be consistent with that of the storage commitment server port.
Maximum retries	0-9 times are optional, the default is 1. 0 is reserved.
Interval time	(1-60 seconds, 1 second is default. 0 is reserved)
TLS	Transmission encryption when it is selected.
Timeout	300s; (1-60s, in increments of 5s, and 1 is default. After user sends storage commitment for 1 second, the connection is closed.
Associated Storage Service	The associated storage server is reset before storage commitment, only after the exam is sent out, can storage commitment be created.
Add	Add the DICOM service to the service list.
Cancel	Click to cancel parameter reset.

@5date	Select an item in the ser"ice list, chan!e the 5parameters in the a<o"e area, and clic* 0@5date to 05date the item in the ser"ice list.
#elete	Clic* to delete the selected ser"ice in the ser"ice list.
3eri4y	Clic* to "eri4y i4 the t9o #C%M a55lication entities are normally connected.
#e4a0lt	@na"aila<le
E?it	Clic* to e?it the set05 screen.

**Tips:**

1. Set stora!e ser"er relatin! to stora!e commitment.
2. Set the 5ort 4or messa!e ret0rn and \$& at ser"er end, 9hich are res5ecti"ely corres5ondin! to the 5ort in #C%M Local and \$& in : C&1\$& 5reset.

### .!.. Query/0etrie"e Preset

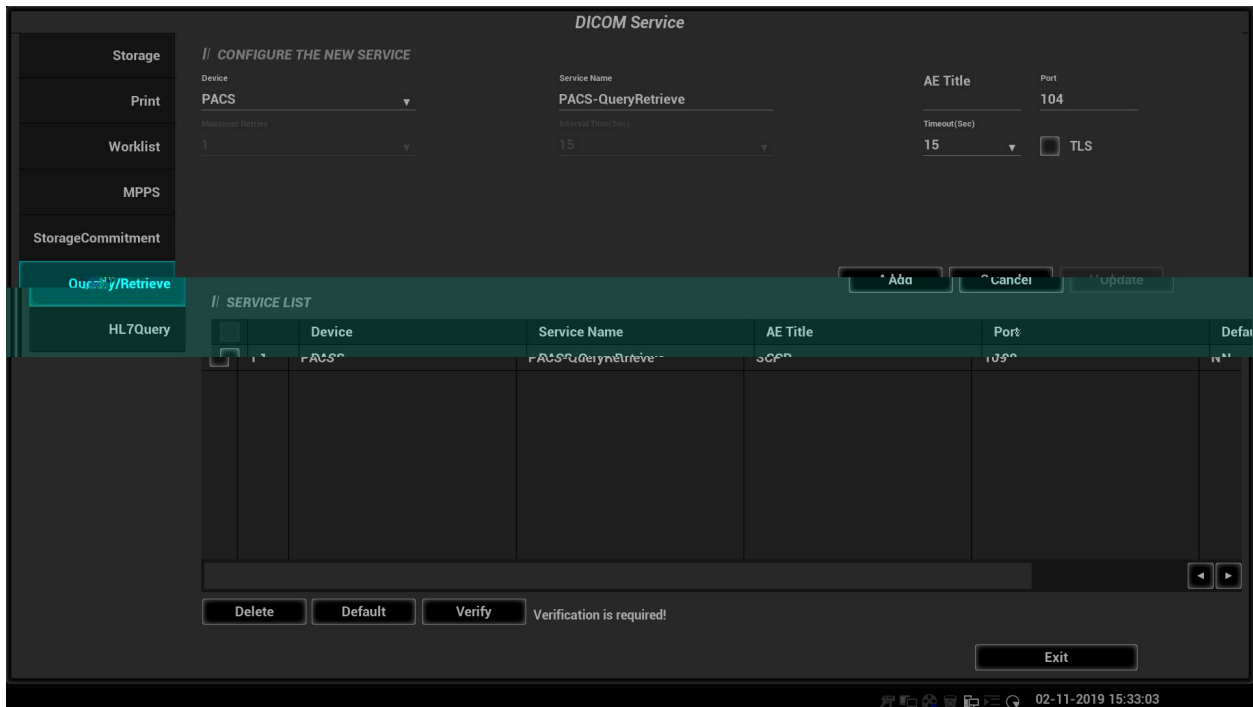


Figure 1 #C%M /0eryl etrie"e &reset Screen

:he main 5parameters o4 /0eryl etrie"e are descri<ed as <elo9;

(ame	Description
#e"ices	A4ter yo0 set the ser"er 6s7 in #C%M Ser"er &reset screen, the name 6s7 9ill a55ear in the dro5-do9n list, select the name o4 the stora!e commitment ser"er.
Ser"ice name	#e4a0lt is ???- /0ery etrie"e, 0ser-chan!ea<le.
AE :itle	A55lication Entity title, here, it sho0ld <e consistent 9ith that o4 the stora!e commitment ser"er.
&ort	#C%M comm0nication 5ort, 10, is de4a0lt. 2ere, the 5ort sho0ld <e consistent 9ith that o4 the stora!e commitment ser"er 5ort.

Maximum Retries	0-9 times are optional, the default is 1. 6-9 is reserved.
Interval Time (Sec)	(1-100 seconds, 10 seconds is default. 6-9 is reserved.
Timeout (Sec)	3-60s; (-.0s, in increments of 0.5s, and 10s is default. After 60s sendin! storage commitment for 10 seconds, the connection is closed.
Listen Mode	Transmission encryption when it is selected.
Add	Add the #C%M service to the service list.
Cancel	Click* to cancel parameter reset.
OK	Select an item in the service list, change the parameters in the above area, and click* OK to update the item in the service list.
Delete	Click* to delete the selected service in the service list.
Verify	Click* to verify if the two #C%M application entities are normally connected.
Refresh	Select an item in the service list, click* Refresh and you can see GQH in the Refresh column.
Exit	Click* to exit the reset screen.

## 2.1.1 231Query Preset

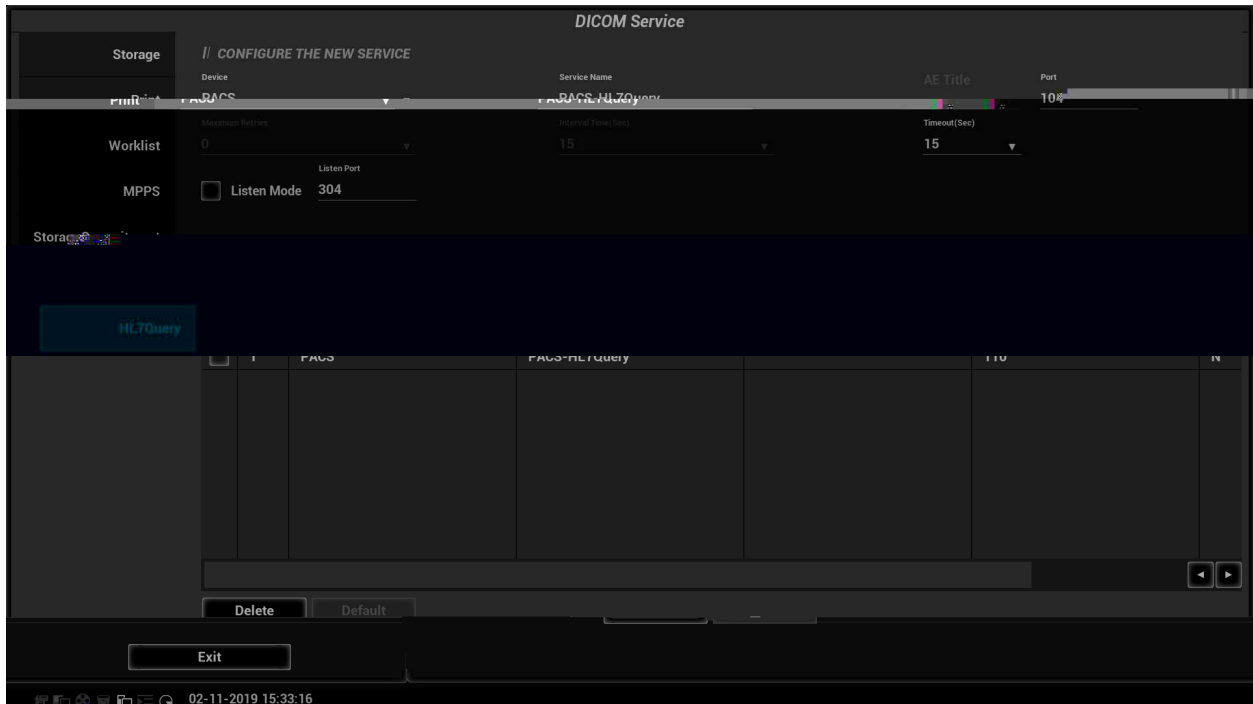


Figure 4 2L+ / Query &reset Screen

The main parameters of 2L+ / Query are described as follows;

Name	Description
Refresh	After you set the server list in #C%M Server screen, the name list will appear in the dropdown list, select the name of the 2L+ server.

Service name	#e4a0lt is ???-2L+ / Oery, Oser-chan!ea<le.
AE :itle	@na"aila<le
&ort	2L+ commOnication 5ort, 10, <y de4a0lt. :he 5ort sho0ld <e consistent 9ith that o4 the 2L+ ser"er 5ort.
Ma?im0m etries	0 9 times, and the de4a0lt is '. 6 eser"ed7
\$nter"al :ime Sec	( 1-00 seconds, and 1( seconds is de4a0lt. 6 eser"ed7
:imeo0t Sec	(-.0s, in increments o4 (s, and 1( is de4a0lt. :imeo0t is the o"ertime o4 connectin! Association, a4ter the set time, #C-.0 9ill disconnect the :C& connection.

# ! Services

## !. \*eriy Connecti"ity

For you want to "eriy connecti"ity bit is not a most, you can click "eriy Connecti"ity on Storage, & print or ) or \*list, M&S, Storage Commitment and / Oeryl etrie"e 5a! es res5ecti"ely. For the "eriy connecti"ity succeeded, the system prompts "eriy Connecti"ity Succeeded. Otherwise, it prompts "eriy Connecti"ity Failed, which means the connection is broken. Please reconfirm it.

:i5;

Not all the SC&s can support "eriy connecti"ity. Please consult SC& consultant to confirm whether SC& can support this service. For not, the "eriy connecti"ity only pass.

## !! DICOM Storage

#C%M Storage is used to send images and S 7 to #C%M storage server for remote storage. The entrances of storage include;

- ◆ Patient information management station
- ◆ e"ie9 statOs 6 e"ie97
- ◆ Real time freeze statOs 6a0to 9or\*4lo97
- ◆ :h0m<nail area

#C%M storage supports;

- ◆ Single file transfer
- ◆ Exam transfer
- ◆ Batch transfer
- ◆ Static image and Cine file

Batch transfer means multiple exam records can be selected and sent for storage with one #C%M task for each exam. Multiple files in one exam will be sent in one #C%M connection.

The auto send function can be tried <y;

- ◆ End of the exam send to default storage server
- ◆ Save in an image <y 5ressin! the user-defined save key image is sent to the default #C%M storage server as well as saved.

## !!! Storage Operation

The system supports automatic and manual storage.

The operations for manual storage service are described <elo9;

After send to #C%M storage in iStation 5a!e as an exam file, the operations are;

1. Confirm the storage server according to the above descriptions after service reset.

2. Press BiStationC on the control panel to enter the patient information management page.
  1. Select one or more exam records that contain images. If not, the system will prompt you in the exam list, or select one or more images in an exam, as shown in the following screenshot.

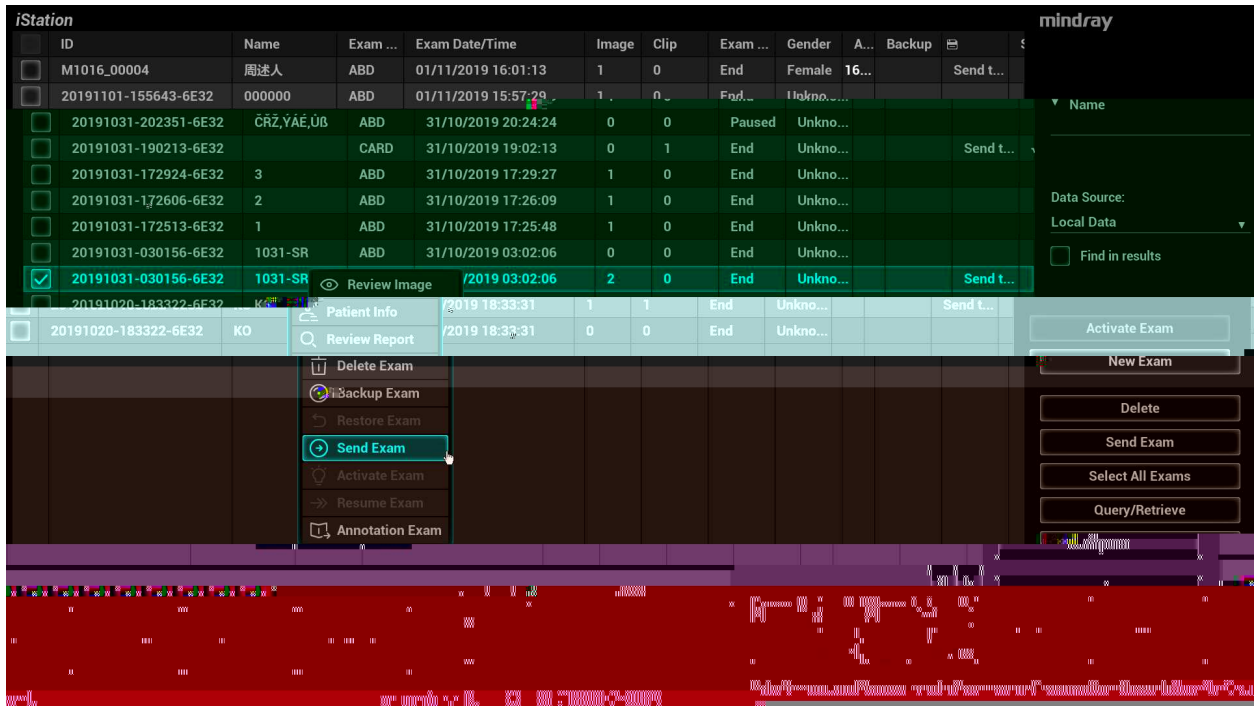


Figure 5 iStation Screen

1. Click 'Send Exam' to open the 'Send' dialog box.
  1. Select the remote server to send, as shown in the following screenshot.

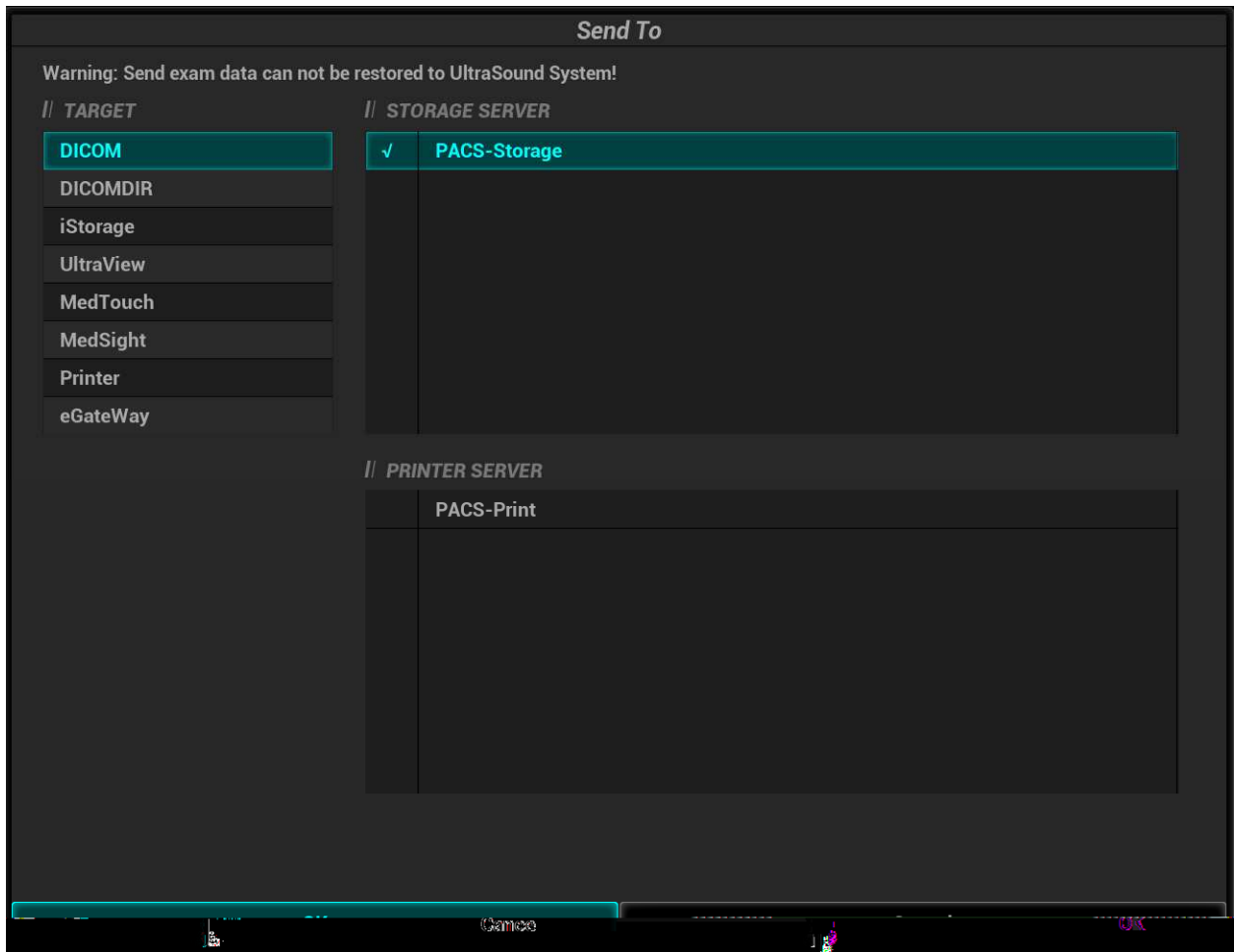



Figure 6 #C%M Send :o Screen

- .. Clic\*  in the ri!ht corner o4 the screen to o5en Mana!ement, in 9hich, yo0 can re"ie9 sendin! stat0s. Select one record, and there is sendin! res0lt in 5rom5t dialo! <o?, as sho9n in 8i!0re 11 :as\* Mana!ement.


Task Management							
Storage Task							
ID	Name	Destination	Progress	Type	Status	Content	
20101021_030156_6522	1021-SP	PACS-Storage	100.0%	DICOM S			

Figure 1: Task Management  
80nction 5aths o4 sendin! ima!e to #C%M stora!e an

2. When Set05 -C #C%M12L+ -C #C%M Ser"ice -C Stora!e, set the de4a0lt stora!e ser"er 6one or more7.
  1. When 5ressin! BEnd E?amC 9ith the c0rrent e?am <ein! acti"e, all ima!es 6and S 7 o4 the c0rrent e?am are sent to the de4a0lt #C%M stora!e ser"er.
- B. Send to #C%M Stora!e <y 0ser-de4ined shortc0t \*ey
1. When Set05 -C System -C Key Con4i!, the =@LL \*ey can <e set as 0Send \$ma!e to #C%M stora!eh, as sho9n in 8i!0re 1' Send to #C%M Stora!e <y @ser-de4ined Key.



Figure 1 Send to #C%M Stora!e <y @ser-de4ined Key

2. When Set05 -C #C%M12L+ -C #C%M Ser"ice -C Stora!e, set the de4a0lt stora!e ser"er 6one or more7.
1. When c0rrent e?am, 5ress B8, C 6accordin! to the 0ser 5reset7, the system 9ill send a sin!le-4rame ima!e to remote #C%M stora!e a0tomatically. When 5ressin! B8(C, the system 9ill send a m0lti-4rame ima!e to remote #C%M stora!e

## !!! Structured 0eport 7S08

The system 5ro"ides S 5s in !ynecolo!y, o<stetric, cardiac, "asc0lar, and <reast e?ams that s5eci4ied in the #C%M standard. The S can not only <e sent alone to a #C%M ser"er 0t also <e sent alon! 9ith an e?am record that has ima!e6s7 sa"ed. The ty5e o4 S to <e sent is determined <y the a55lication re!ion o4 the e?am;

- Send o<stetric S ; !ynecolo!y and o<stetrics e?amF
- Send cardiac S ; cardiac e?amf
- Send 3asc0lar S ; "asc0lar, a<domen and 0rolo!y e?am. 6:he "asc0lar S contains the s05er4icial, a<dominal and \*idney "asc0lar, a55lication re!ion o4 9hich corres5onds to the "asc0lar, a<domen and 0rolo!y e?am res5ecti"ely.7
- Send <reast S ; <reast e?amf
- Send A<dmen S a<domen e?am 6:he a<dmen S contains the a<dmen meas0rements, a<dominal and \*idney "asc0lar

The S only co0ld <e sent in the circ0mstance as <elo9;



## Monet Series Diagnostic Ultrasound System

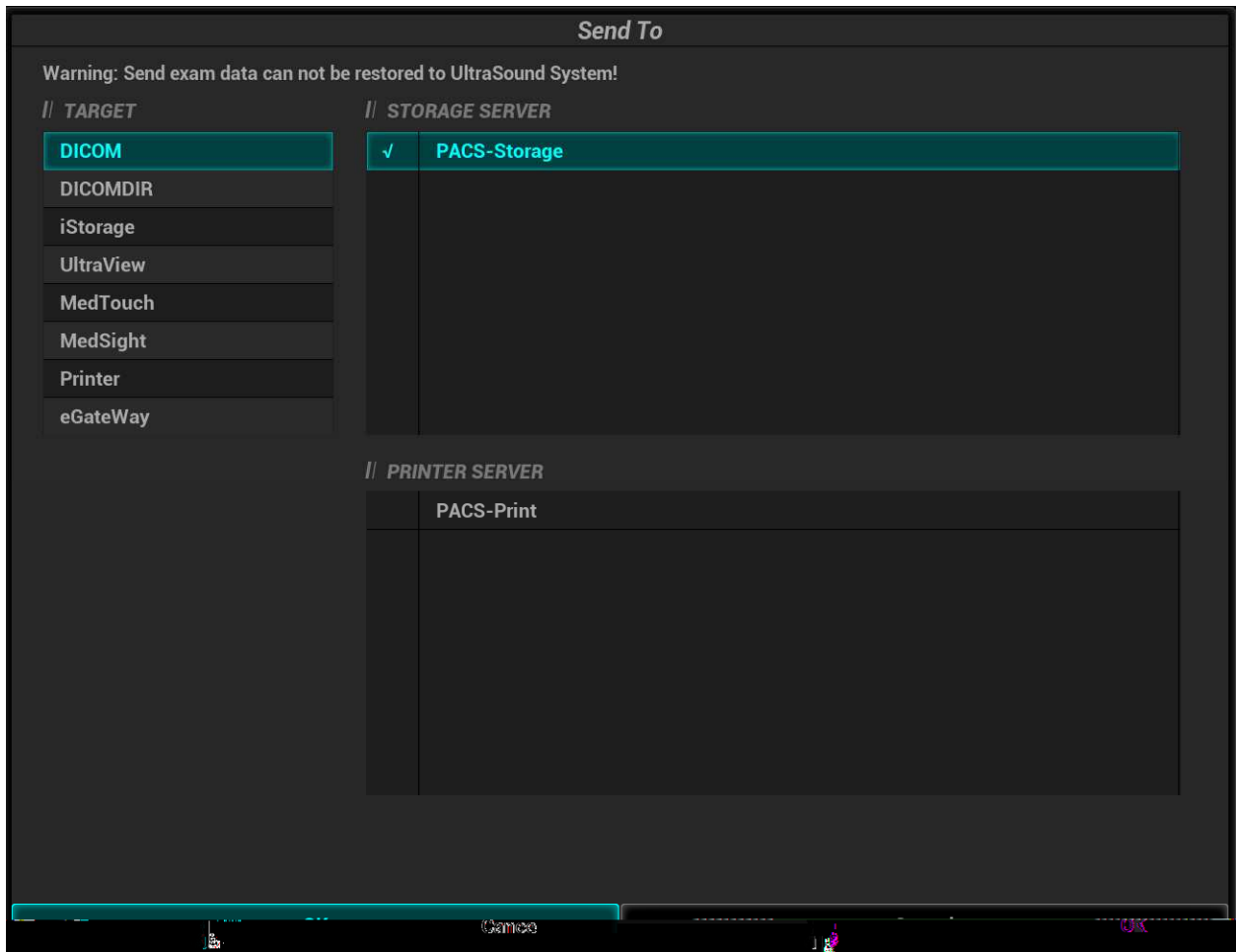


Figure # Send :o

+. Select #C%M in the D:ar! etE listf select a ser"er in the DStora! e Ser"erE list.

-. Clic\* D%KE, the statOs o4 sendin! tas\* can <e "ie9ed in #C%M tas\* mana!ement.

=% : E; 8or sendin! S aOtomatically, the same 5rocedOres are 4ollo9ed as in 2.2.1 Stora! e %5eration.

B. %nly Stora! e S

Select G%nly Store S H in #C%M Stora! e &reset -C S Store %5tion 6See 1.2.17. : he 5rocedOres are as the same as GAttach S 9hen Store \$ma!esH.

## !.\$ 9ncapsulated PDF

Enca5s0lated &#8 is a &#8 doc0ment that has <een enca5s0lated 9ithin a #C%M in4ormation o<lect, 9hich is 0sed to enca5s0late the re5ort doc0ment in this system.

: he Enca5s0lated &#8 only co0ld <e sent in the circ0mstance as <elo9;

ee 991e7(e) !( ( ) 4.9(1) .27005(e7(e) !( ( ) 4.9(4.5054881(e) 1.59525(5) er5952589927(27 -1882035(9)459873(10) -089922(33) (-0) 1988927(-0) 998925(0) 299893(is) -

## !.!.# \$D/#D

' #1, # ima!es co0ld send as 5re-con4i!0ration 4orm;

- =ormal; send as the same as 2# ima!es.
- 3o0me; send as ' # "o0me dataset enca5s0lated 9ithin Enhanced @S 3o0me Stora!e \$%#
- a9 data; 5ri"ate 4orm. :rans4er 9ith a9 data 4orm is mainly 0sed 4or , #3ie9er to !et the ra9 data o4 the ' # or , # ima!es. :he ' # or , # ima!es are enca5s0lated 9ithin a9 #ata Stora!e \$%# to send to , #3ie9er and , #3ie9er co0ld re"ie9 them

:he G' #1, #H o5tion is only e44ecti"e 4or ' # and , # ima!es, <0t isnlt 4or 2# ima!es. :he o5eration to send ' #1, # ima!es; A4ter the D' #1, #E o5tion is set correctly in 5reset, select ' # or , # ima!es to send as 2.2.1.

## !.!.- Send DCM File

System allo9s sa"in! ima!es as #CM 4ormat to e?ternal media or de"ice. :he o5erations are descri<ed <elo9;

### A. Send to E?ternal Media

) hen the system is connected to e?ternal stora!e media, it allo9s sa"in! the ima!e as #CM 4ormat. :he detailed o5erations are as 4ollo9s;

1. Select one or more e?ams 69ith ima!e7 in iStation, clic\* DSendE.
2. \$n the dialo! <o? 5o55ed 05, select the D#estinationE as connected e?ternal media.
3. Select the E?5ort \$ma!e G#CMHF a4ter con4irmin!, clic\* D%KE, the selected e?am or the ima!e6s7P#o55ler A0dioPS o4 the e?am can <e sent to the s5eci4ied e?ternal media 9ith the 4ormat o4 #CM, as sho9n in 8i!0re 1 ( Sa"e as #CM 8ormat.

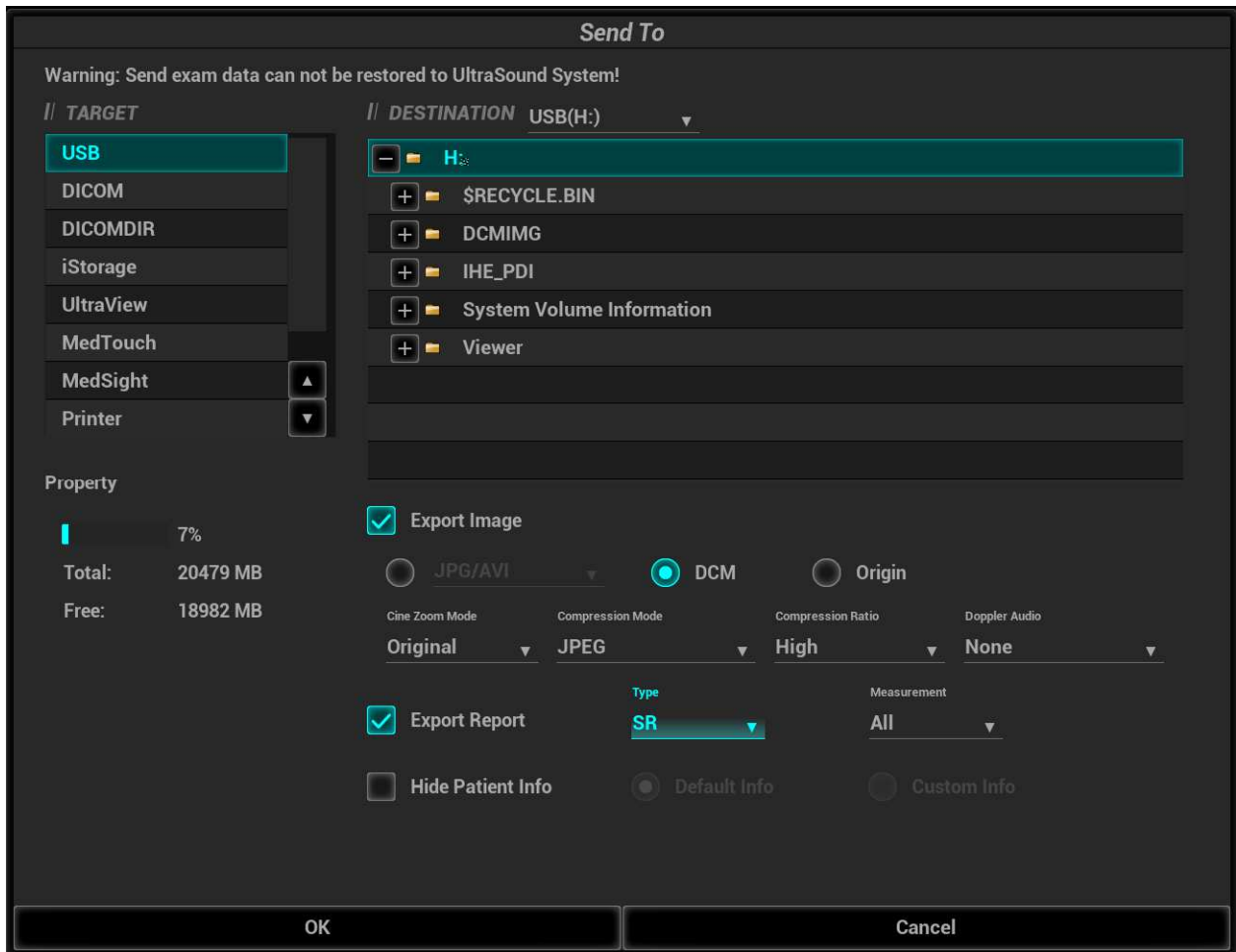


Figure - Save as #CM 8 format

B. Send to iStorage

When the system is connected to iStorage, it also allows sending files as #CM 4 format. The detailed operations are as follows;

1. Confirm the iStorage server in Set05 - Connect to iStorage.
2. Select one or more exams with images in iStation, click [Send].
3. In the dialog box, select the iStorage server.
4. Select the Export format as #CMHF after confirmation, click [OK], the selected exam or the images of the exam can be sent to the specified iStorage server with the format of #CM, as shown in Figure 1. Send to iStorage.



Batch transfer means multiple exam records can be selected and sent for printing. With one #C%M task for each exam. Multiple files in one exam will be sent in one #C%M connection.

The auto send function can be triggered by the reset button;

- End the exam to send to default printer
- When an image is pressed, the user-defined save key image is sent to the default #C%M printer as well as saved

## !.\$ Send to DICOM Print Manually

When send to #C%M printer in iStation screen as an exam, the operation steps are:

1. Confirm the printer according to the user descriptions of printer reset.
2. Press BiStationC on the control panel to enter the patient information management screen.
3. Select one or more exam records that contain images in exam list, or select one or more images in an exam.
4. Click Send Exam to show the Send dialog box, select the printer Server, click OK to print.

## !.\$! Send to DICOM Print Automatically

8 functions ways of sending to #C%M printer automatically;

- Send to #C%M printer when end the exam
  - Steps;
    1. In Set05 -C System -C General, select Send to printer immediately after End Exam.
    2. In Set05 -C #C%M M12L+ -C #C%M Service -C Print Service, set the default printer.
    3. When pressed BEnd Exam with the current exam being active, all images and S 7 of the current exam are sent to the default #C%M printer.
- Send to #C%M printer when pressed user-defined key
  1. In Set05 -C System -C Key Confirm, the =@LL key can be set as Save Image, and press Add H to combine this key with function of Send Image to #C%M printer.
  2. As shown in figure 1+ Send to #C%M printer when pressed user-defined key.

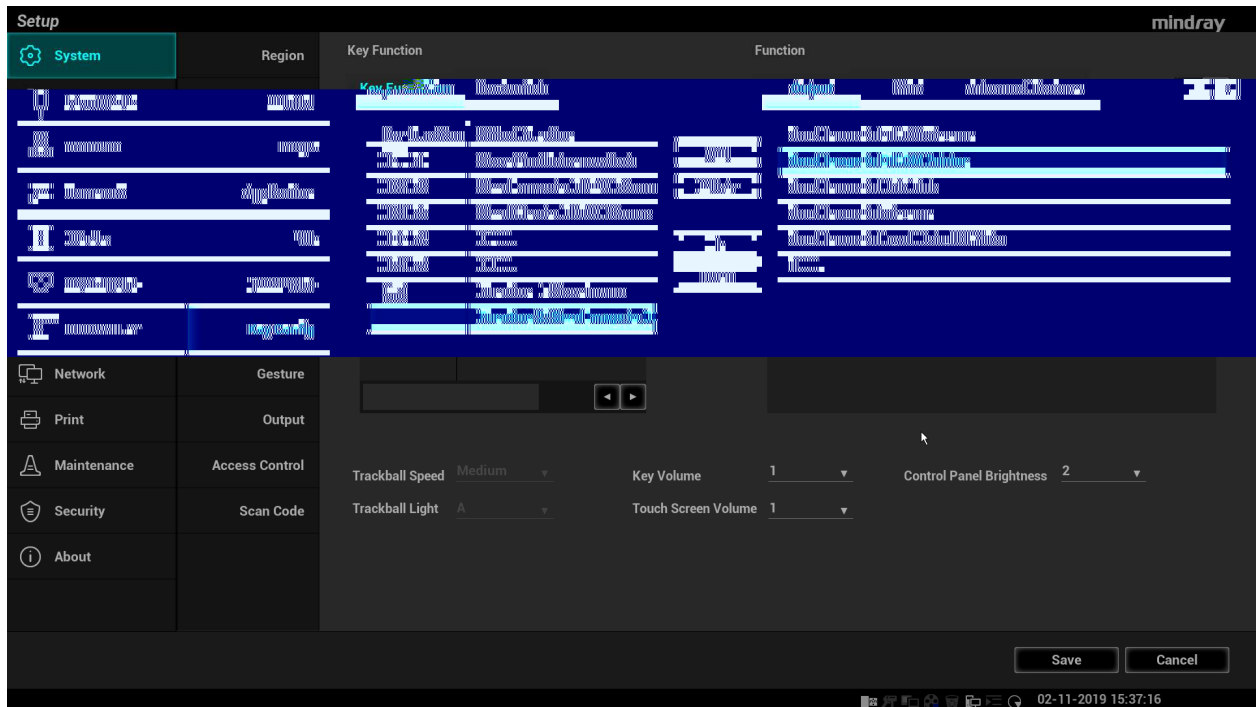


Figure 1 Send to #C%M 5rint 9hen 5ressin! 0ser-de4ined \*ey

- 1. \$n #C%M &reset -C &rint Ser"ice, set the de4a0lt 5rint ser"er.
- 2. \$n c0rrent e?am, 5ress B8 (C 6accordin! to the 0ser 5reset7, the system 9ill sa"e and send a sin!le-4rame ima!e to remote #C%M 5rinter a0tomatically.
- 3. 3ie9 the 5rint stat0s in the #C%M :as\* Mana!ement, chec\* the #C%M 5reset and net9or\* connection i4 a 5rint error occ0rs.

## !.# DICOM , ork3ist

: he 0ser can set >0ery conditions 9hen 4indin! e?am record6s7 4rom the \$S or other ) or\*list ser"er, and im5ort the 5atient in4ormation selected in the >0ery res0lt.

Ste5s;

1. &ress B\$n4oC to o5en the &atient \$n4o screen.
2. Clic\* 0 ) or\*ListE to enter the ) or\*List screen.
3. / 0ery the 5atient in4ormation <y settin! conditions s0ch as &atient \$#, =ame, and Key 9ords, E?am #ate, Modality, ) or\*List Ser"er, and Sched0led Station AE :itle. : he de4a0lt E?am #ate is 6todayH o4 the system time. &atient records 9ill <e listed a4ter clic\*in! 0 / 0eryE.



- The user can set query conditions when finding the patient records from the Patient Monitors or other 2L+ server, and import the patient information selected in the query result.

Check the #C%M 5reset and net9or\* connection if a query error occurs.

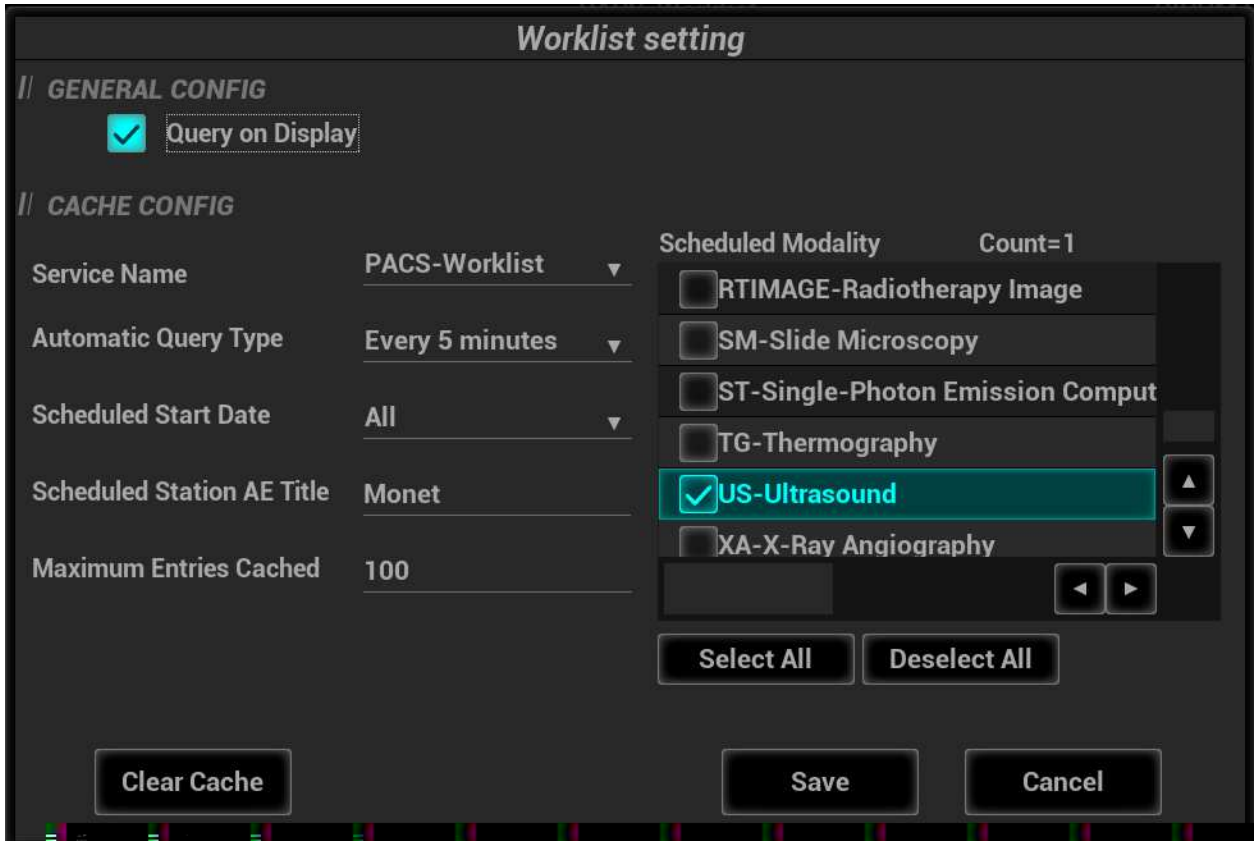


Figure 1-231 Query Worklist setting

## 1.- 231Query

The user can set query conditions when finding the patient records from the Patient Monitors or other 2L+ server, and import the patient information selected in the query result.

Steps:

1. Press B/C to open the Patient screen.
2. Click the Query Worklist to enter the Query Worklist screen.
3. Select the Server type to the 2L+ Server, / Query the patient information query setting conditions such as patient #, name or combination of them. Patient records will be listed after clicking the Query.

**Worklist** mindray

// QUERY

Patient ID: \_\_\_\_\_ Scheduled Station AE Title: \_\_\_\_\_ Modality Type: US

Patient Name: \_\_\_\_\_ Accession #: \_\_\_\_\_ HL7 Server: PACS-HL7Query Server Type: HL7 Server

First Name: \_\_\_\_\_ Station Name: \_\_\_\_\_ Search Key: \_\_\_\_\_

System Location: \_\_\_\_\_ Exam Date: Today From: 02/11/2019 To: 02/11/2019 M.I.: \_\_\_\_\_

Unit: \_\_\_\_\_ Admit Date: DD/MM/YY

Query Clear Setting

1 records are listed.

Patient ID	Patient Name	Accession #	Exam Description	Exam Date	Gender	DOB
PDQNEW113XX01*NEWHL...	111	FillerOrderIden	UniSrvText		Male	23/02/1988

Charset option: Original Character set

Status: Showing HL7 results

Start Exam Transfer Show Detail

02-11-2019 15:37:41

Figure !! 2L+ / 0ery

, . After the first >0ery is finished, yo0 can 5er4orm the second >0ery 9ithin the ran ! e o4 the

# 1.1 Storage Commitment

Storage commitment is to ensure that the image data will be stored into the server correctly. Therefore, a Storage Commitment server is needed, and a relative storage server must be set. Steps:

1. A default storage commitment server is reset and a relative storage server is set.
2. Send image and S 7 to the storage server, the storage commitments are sent to the commitment server automatically.

1. The state of the committed service will be returned with the column in iStation screen marked with a tick if the commitment is succeeded. Otherwise the column will not be marked.

# 1.4 Query/Retrieve

The query/retrieve function is to query and let the patient exam record from a specified server. Steps:

1. A query/retrieve server is reset.
2. Press BiStation-C / Query Retrieve.
3. Press BiStation-C BiStation-C / Query Retrieve.
4. Select the Source server, enter Search Key words, choose the Level "Study" or "Series" and click / Query. As shown in Figure 2-10.

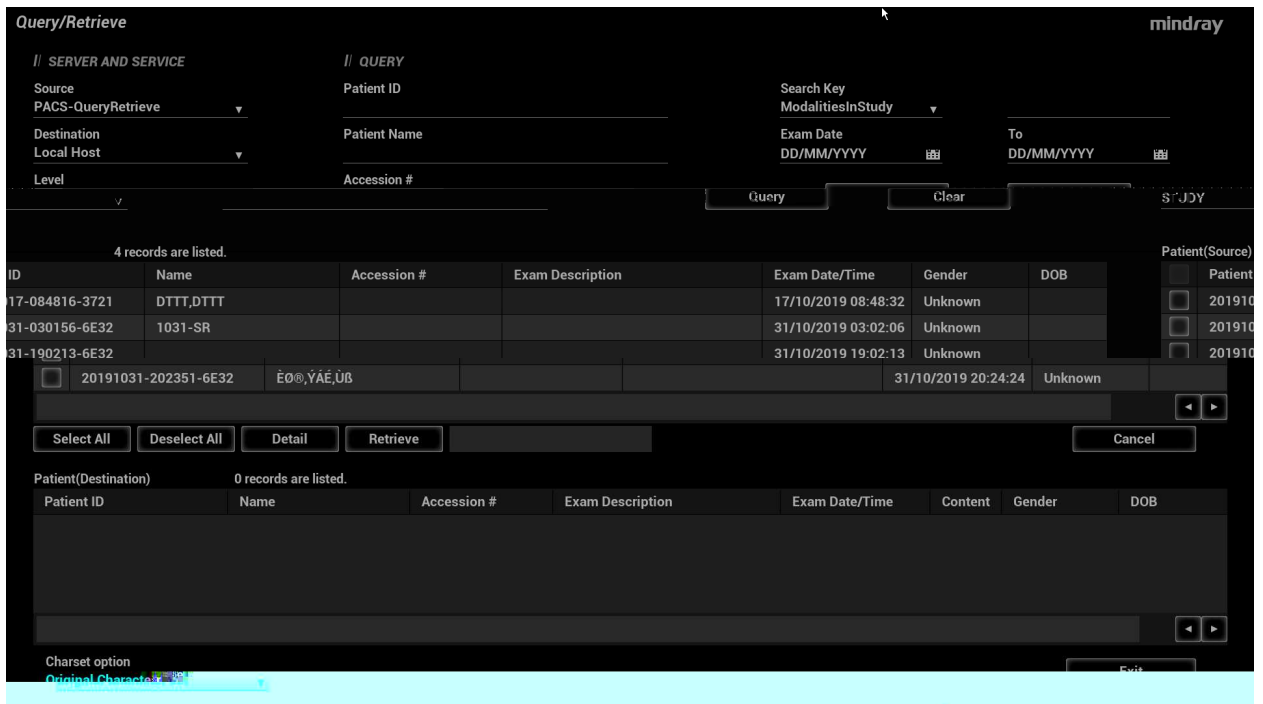


Figure 1.4-10 Query/Retrieve

4. Select one or more records and click Retrieve to let the records down to local system, as shown in Figure 2-11, Retrieve.



# Monet Series Diagnostic Ultrasound System

Query/Retrieve

SERVER AND SERVICE // QUERY

Source: PACS-QueryRetrieve Patient ID: \_\_\_\_\_ Search Key: \_\_\_\_\_ ModalitiesInStudy: \_\_\_\_\_

DD/MM/YYYY Local Host: \_\_\_\_\_ Level: \_\_\_\_\_ Accession #: \_\_\_\_\_ DD/MM/YYYY

Accession #	Exam Description	Exam Date/Time	Gender	DOB	Patient ID	Name
		17/10/2019 08:48:32	Unknown		<input type="checkbox"/> 20191017-084816-3721	DTTT,DTTT
		17/10/2019 10:00:10	Unknown		<input type="checkbox"/> 20191017-100010-3721	DTTT,DTTT
		30/10/2019 10:24:04	Unknown		<input type="checkbox"/> 20191030-102404-3721	DTTT,DTTT

Select All Deselect All **Detail** Retrieve Cancel

Patient(Destination) 1 records are listed.

Patient ID	Name	Accession #	Exam Description	Exam Date/Time	Content	Gender	DOB
20191031-030156-6E32	1031-SR			31/10/2019 03:02:06	2	Unknown	

Charset option: Original Character set

Exit

02-11-2019 15:39:26

- Select the target destination, and select the destination as shown in Figure 2 ( #CM Media Storage).

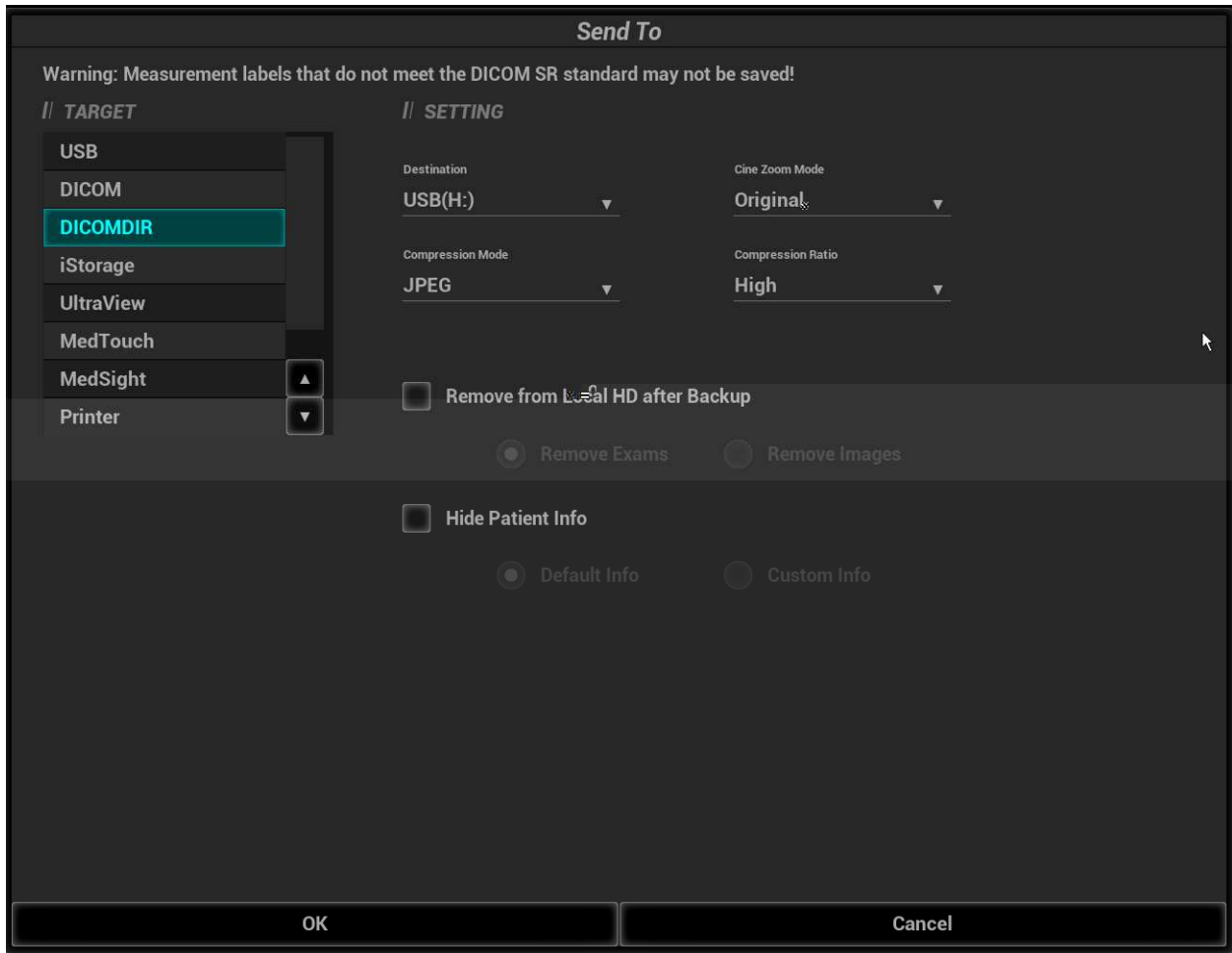


Figure 1 - #CM Media Storage

- Click OK, to export the image in current exam to the external media in #CM format
- If the export is successful, Backup in the iStation screen will be marked with otherise no is marked

NOTE 1; make sure enough space on the media; otherwise the media storage process will be failed due to insufficient space.

NOTE 2; if the #CM files sent to external media or iStorage can be used as teaching files in G2ide & patient information. If patient information is selected, patient information will not be included in these #CM files.


## 1.5.1 DICOMDIR File:

Steps;




- Press BiStationC on the control panel to enter the patient information screen
- Select the external media from Data Source
- If the exams and images will display in the iStation screen if the media is read successfully.

## 1. 6 Task Management

The task management is a platform for the user to manage, view, delete or restart the **Task**, including **Task**.

Click  icon in the lower right corner of the screen to open the **Task** Management dialog box, as shown in Figure 10 **Task** Send to Screen.

Task progress and status of storage task, print task and media storage task can be viewed in this dialog box. The task management icon indicates the status of the task;

1. Task in progress, the icon indicates in green. 
2. Task is in progress with failed tasks exists, the icon indicates in yellow. 
3. Task is in progress without failed tasks, the icon is .

# \$ Troubleshooting Common Failures and

## \$. Common Failure) Ser"ice \*erification Failed

Potential reasons;

- Failed network connect, please check the network cable and connection
- Serification service is not sorted by the server
- The "erification is sorted but not activated on the server check the server setting if the "erification service is activated.

Troubleshooting;

- Check the network cable and connection.
- Check the #C%M Conformance Statement if the SC& is sorted
- Enable the SC& service reffer to the Server Manual or #C%M Conformance Statement.
- If the "erification is still failed after all above steps and the operating system is Windows, please add the server port to the Windows Firewall rules:
  - Control Panel -> Windows Firewall -> Advanced settings -> Windows Firewall
  - Click "Inbound rules", select "New rule" in the "New rule" dialog and then click "Custom ports"
  - Select "Ports" which the role applies and "Specify the server port in hexadecimal local port" edit box, then click "OK"
  - Select "Allow the connection" and click "OK"
  - Specify the profiles for which the rule applies and click "OK"
  - Name the rule and click "Finish".

## \$.! Common Failure) Ser"er disconnects the ultrasound system during implementing storage

Potential reasons;

- The N&O compression is enabled on local device but is not sorted on the server
- Wrong AE :\$ :LE settings on local device and the server.

Troubleshooting;

- Select "Compressed" in #C%M Ser"ice -C Storage
- Set the correct local AE :\$ :LE and server AE :\$ :LE on local device according to the #C%M Conformance Statement or settings of the server.

## \$. \$ Common Failure) Multi-frame transmission is failed; but single frame is succeeded.

Potential reasons;

- RALlo9 M0lti4rameR is not selected in the dialo! <o? o4 Stora! e 5reset.

:ro0<leshootin!;

- Select R Allo9 M0lti4rame R in the dialo! <o? o4 Stora! e 5reset.

## \$. # Common Failure) ( et : ork disconnected 7s ' o : n &y net : ork icon8 during transmission

Potential reasons;

- : he net9or\* ca<le or 9ireless net9or\* is disconnected d0rin! transmissionF
- : he connected s9itch, ro0ter or h0< is do9n or in 4ail0re.

:ro0<leshootin!;

- Connect the net9or\*F
- eset the s9itch, ro0ter or h0<, or re5lace a net9or\* de"ice 9ith hi!her 5er4ormance.

## \$. - Common Failure) , orklist <uery succeeded; but no patient is s ' o : n

Potential reasons;

- Sched0led Station AE :itle in the 5reset is not consistent 9ith the settin! on ser"erF
- econds on the ser"er data<ase are not accordant 9ith the >0ery conditions on local Oltraso0nd system

:ro0<leshootin!;

- &reset the ri!ht Sched0led Station AE :itle on ) or\*list screen accordin! to the ser"er settin!s.
- : he Oltraso0nd system is de4a0ltd only to in>0ire the 5atient in4ormation that the Modality is @S, and the 5atient needs the ser"er to 5ro"ide @S attri<0te. Chan!e the >0ery conditions 6e!. date or 5atient name7 to ma\*e the ser"er 4ind the record accordin!ly. Based on #C%M standard, &atient \$# cannot s055ort 40zzy in>0iry, only can s055ort the 9hole 9ord match. &lease con4irm the entered &atient \$# is ri!ht or not.

## \$. . Common Failure) Printing succeeded but t ' e film is blank

Potential reasons;

- : he 5rinter doesn't s055ort color 5rintin! 9hich is 5er4ormed <y the Oltraso0nd systemF
- : he 4ilm or 5a5er o4 the 5rinter doesn't s055ort color 5rintin!.

:ro0<leshootin!;

- Check the printer conformance statement if the printer can support color printing! If not, modify the GSetting in &print &reset Screen -C &print to B1 ) type M%=%C2 %ME27F
- Generally, the RMdiOm :y5eH is set to GBl0e 8ileH 4or B1 ) 5rintin! 9hile G&a5erH or GClear 8ilmH 4or color 5rintin!

## \$ .1 Common Failure) \*eritication o+ connecting DICOM printer is succeed &ut printing is +ailed

Potential reasons;

- ) ron! AES: \$: LE settin! s on local de"ice and the ser"er.
- : he 5parameters set in # \$C%M Ser"ice -C &print are not s055orted.
- \$& address o4 5rinter ser"er is the same 9ith the system \$&.

:ro0<leshootin!;

- Set the correct local AES: \$: LE and ser"er AES: \$: LE on local de"ice accordin! to the # \$C%M Conformance Statement or settin! s o4 the 5rinter.
- e4er to the 5rinter conformance statement 4or the 5rintin! 5parameters 68ormat, 8ilm Size7 "al0e that s055orted. Chec\* 4ilm size and ty5e, and then correctly set 8ilm Size, 8ormat, Medi0m :y5e etc. in 5rint ser"ice 5reset in 0ltraso0nd system.
- Set the correct \$& address o4 the 5rinter ser"er.

## \$ .4 Common Failure) Printed image is too small

Potential reasons;

: he Ma!ni4ication :y5e o4 local 0ltraso0nd system is set to =%=E 9hile this 5parameter on 5rinter is set to same 9ith the local 0ltraso0nd system.

:ro0<leshootin!;

- Set the ri!ht Ma!ni4ication :y5e in local 0ltraso0nd # \$C%M Ser"ice 5reset accordin! to the Ma!ni4ication :y5e s5eci4ied in the 5rinter conformance statement. \$4 there is no 5rinter conformance statement 4or re4erence, set the Ma!ni4ication :y5e as Bilinear, C@B\$C or E&L\$CA: E.

## \$ .5 Common Failure) MPPS message is not



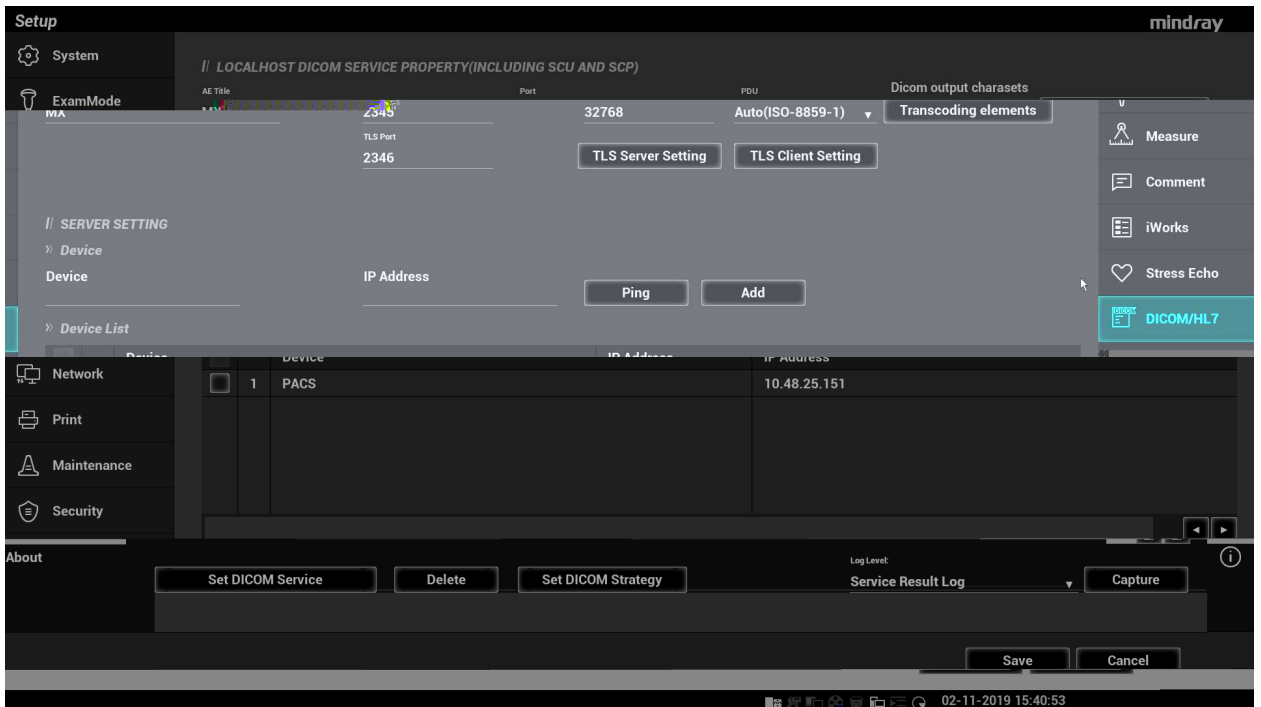


Figure 1. Local & reset

## \$. ! Common Failure) 9 rror messages in DICOM %ask Management

### \$. !. Association a&orts

&otential easons; ; he association is denied <y the SC& d0e to incorrec settin! o4 AE :\$:LE on the SC@. See 8i!0re 2( Association a<orts.

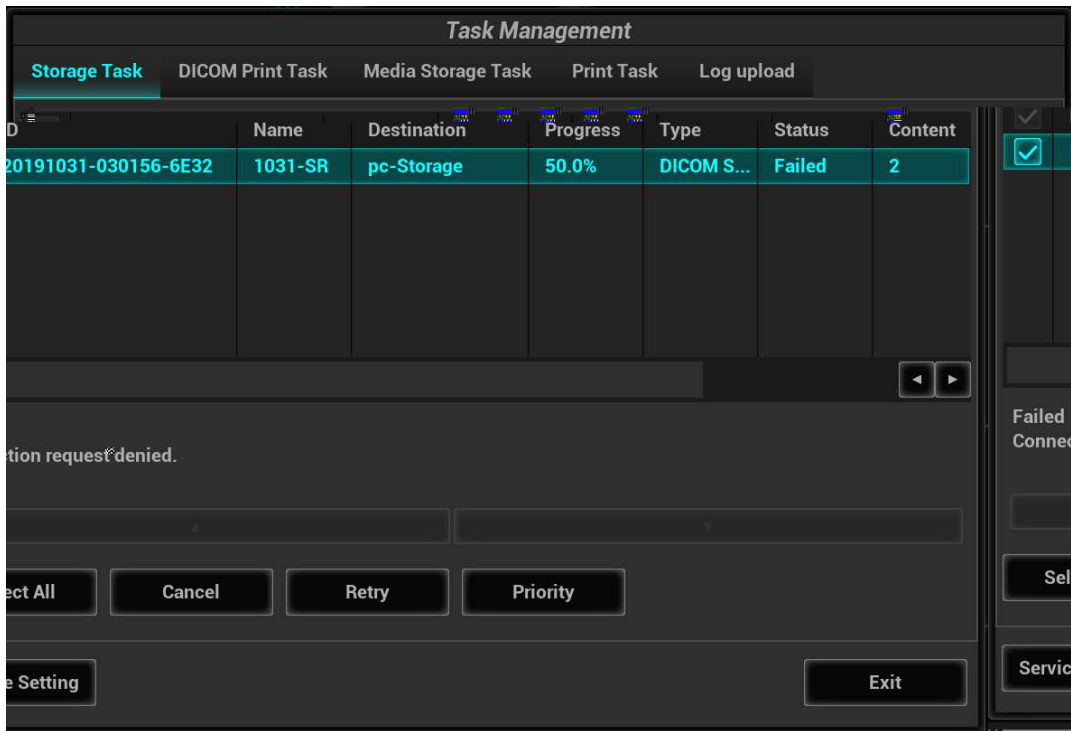
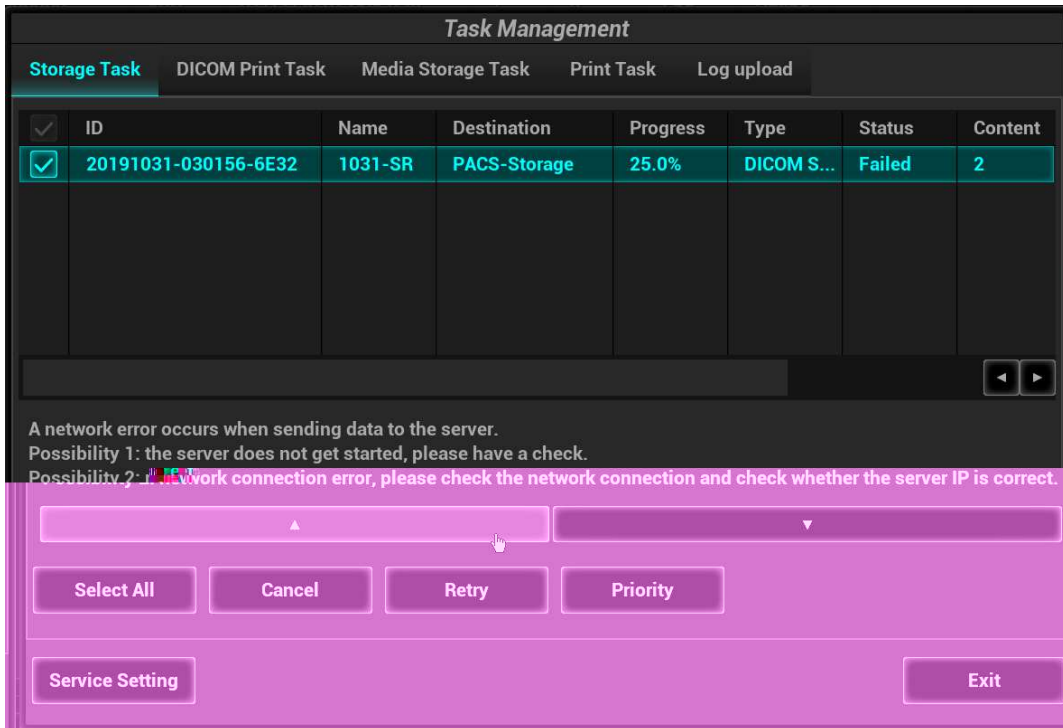


Figure !1 Association a<orts



Task Management							
Storage Task							
DICOM Print Task    Media Storage Task    Print Task    Log upload							
✓	ID	Name	Destination	Progress	Type	Status	Content
<input checked="" type="checkbox"/>	20191031-030156-6E32	1031-SR	PACS-Storage	25.0%	DICOM S...	Failed	2

Figure 14 =et9or\* error

### \$. !.! (et : ork error) Socket sending error

&otential easons; =et9or\* ca<le On5l0!!ed or net9or\* e>0i5ment is 4ailed d0rin! data transmission. See 8i!0re 2. =et9or\* error.

: Q&E	E&L\$CA: E B\$L\$=EA C@B\$C BICUBIC MITCHELL LANCZOS SHARP1 SHARP2 SHARP3
-------	---

AE :\$: LE settin!s that s5eci4ied in 2orizon C\$ #C%M 5rinter con4ormance statement are listed in ta<le <elo9;

System No< Settin!s 8ile	Corres5ondin! @se
&rintSSC&	@sed 4or #C%M. #oes not contain any 5rint 5arameter settin!s. \$4 the media ty5e or size is not incl0ded in the #C%M attri<0tes sent to the ima!er, the ima!er detects the ima!e ty5e and selects the media ty5e and size as 4ollo9s; 8or !rayscale ima!es, 0ses the media set 4or Orayscale in the #e4a0lt Media men0 at the control 5anel. 8or color ima!es, 0ses the media set 4or Color in the #e4a0lt Media men0 at the control 5anel.
#e4a0lt Orayscale	\$ma!er 0ses the media set 4or Orayscale in the #e4a0lt Media men0 at the control 5anel
#e4a0lt Color	\$ma!er 0ses the media set 4or Color in the #e4a0lt Media men0 at the control 5anel
-?10-d"4	-?10 #irect3ista 4ilm 6<l0e7
-?10-d"4<	-?10 #irect3ista 4ilm 6<l0e7
-?10-d"4c	-?10 #irect3ista 4ilm 6clear7
-?10-d"5	-?10 #irect3ista 5a5er
-?10-c"4	-?10 Chroma3ista 4ilm
-?10-c"t	-?10 Chroma3ista 4ilm
11?1, -d"4	11?1, #irect3ista 4ilm 6<l0e7
11?1, -d"4<	11?1, #irect3ista 4ilm 6<l0e7
11?1, -d"4c	11?1, #irect3ista 4ilm 6clear7
11?1, -d"5	11?1, #irect3ista 5a5er
11?1, -d"5	11?1, #irect3ista 5a5er
1, ?1+-d"4	1, ?1+ #irect3ista 4ilm 6<l0e7
1, ?1+-d"4<	1, ?1+ #irect3ista 4ilm 6<l0e7
1, ?1+-d"4c	1, ?1+ #irect3ista 4ilm 6clear7

1, ?1+ -d"5	1, ?1+ #irect3ista 5a5er
a-d"5	A-size #irect3ista 5a5er
a-c"4	A-size Chroma3ista 4ilm
a-c"t	A-size Chroma3ista 4ilm
a, -d"5	A, -size #irect3ista 5a5er
a, -c"5	A, -size Chroma3ista 5a5er
a, -c"4	A, -size Chroma3ista 4ilm
a, -c"t	A, -size Chroma3ista 4ilm
5riority-hi!h	Sets 5rint lo< 5riority to hi!h
5riority-medi0m	Sets 5rint lo< 5riority to medi0m
5riority-lo9	Sets 5rint lo< 5riority to lo9
recei"e-1	8orces sheet o0t50t to recei"e tray 1
recei"e-2	8orces sheet o0t50t to recei"e tray 2
recei"e-'	8orces sheet o0t50t to recei"e tray '
syn!o4ilm	S5ecial %EM-s5eci4ic lo< settin!s

: he 2orizon C\$ # \$C%M 5rinter screen dis5lays;

A, C3 &A&E

-U10 #3 BI0e

1, U1+ #3 BI0e

● %'e +ollo : ing are t' e correct settings o+ t' e ultrasound system DICOM print preset)

■ Color 5rintin!;

617 Settin!s; OB

627 Medi0m :y5e; &a5er

6'7 8ilm Size; A,

6,7 MAO=\$8\$CA:\$%= :Q&E;=%=E1C@B\$C1 E&L\$CA:E1B\$L\$=EA

6(7 AE :itle; &rintSSc5 6 ecommended7

■ B1) 5rintin!

1. Method 1

617 Settin!s; M%=%C2 %ME2

627 Medi0m :y5e; BI0e 8ilm

6'7 8ilm Size; -U10

6,7 MAO=\$8\$CA:\$%= :Q&E;=%=E1C@B\$C1 E&L\$CA:E1B\$L\$=EA

6(7 AE :itle; &rintSSc5 6 recommended7

2. Method 2

617 Settin!s; M%=%C2 %ME2

627 Medi0m :y5e; BI0e 8ilm

6'7 8ilm Size; 1, U1+



Reasons;

Settings of film orientation along with the 8% MA: that is sorted <y 8@N\$ film dry5i?, 000 printer are specified in the conformance statement. The print setting of 1, U1+ Landscape S:A=#A #P', ( is On a scale.

According to the printer conformance statement, film orientation and 8% MA: table sorted <y 8@N\$ film dry5i?, 000 are listed in table below

Film Size and Orientation	8% MA:
1, R-1+R & Portrait	S:A=#A #P1,1
	S:A=#A #P1,2
	S:A=#A #P1,'
	S:A=#A #P2,1
	S:A=#A #P2,2
	S:A=#A #P2,'
	S:A=#A #P2,,
	S:A=#A #P','
	S:A=#A #P',,,
	S:A=#A #P',,(
	S:A=#A #P',..
	S:A=#A #P',,,
	S:A=#A #P',,(
	S:A=#A #P',..
	S:A=#A #P',,+
	S:A=#A #P',,-
	S:A=#A #P',,(
	S:A=#A #P',..
	S:A=#A #P',,+
	S:A=#A #P',,-
	S:A=#A #P',,9
	S:A=#A #P',,10
	S:A=#A #P+,+
	S:A=#A #P+,-
	S:A=#A #P+,9
	S:A=#A #P+,10
	S:A=#A #P-,-
	S:A=#A #P-,9
	S:A=#A #P-,10

<p>1, R-1+R Landscas5e</p>	<p>S:A=#A #P1,1  S:A=#A #P2,1  S:A=#A #P',1  S:A=#A #P1,2  S:A=#A #P2,2  S:A=#A #P',2  S:A=#A #P',,2  S:A=#A #P', '  S:A=#A #P',, '  S:A=#A #P(, '  S:A=#A #P., '  S:A=#A #P,,, '  S:A=#A #P(, , '  S:A=#A #P., , '  S:A=#A #P+, , '  S:A=#A #P-, , '  S:A=#A #P(, ( '  S:A=#A #P., ( '  S:A=#A #P+, ( '  S:A=#A #P-, ( '  S:A=#A #P., . '  S:A=#A #P+, . '  S:A=#A #P-, . '  S:A=#A #P9, . '  S:A=#A #P10, . '  S:A=#A #P+, + '  S:A=#A #P-, + '  S:A=#A #P9, + '  S:A=#A #P10, + '  S:A=#A #P-, - '  S:A=#A #P9, - '  S:A=#A #P10, - '</p>
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