

**OPERATION MANUAL**  
**FOR**  
**CT PROTOCOL MANAGEMENT**  
**(2B515-016EN\*C)**

**IMPORTANT!**

Read and understand this manual before operating the equipment. After reading, keep this manual in an easily accessible place.

**TOSHIBA MEDICAL SYSTEMS CORPORATION**

# Introduction

This operation manual describes the operating procedures for the medical information management/analysis software CT Protocol Management for the Toshiba Packages (VSTP-001A, VSTV-001A).

To ensure safe and correct operation of the product, carefully read and understand this manual and the operation manual for Vitality XT Server before starting operation.

\* The displayed windows may differ, depending on the version of the application software.

## **IMPORTANT!**

1. No part of this manual may be copied or reprinted, in whole or in part, without prior written permission.
2. The contents of this manual are subject to change without prior notice and without legal obligation.
3. The contents of this manual are correct to the best of our knowledge. Please inform us of any ambiguous or erroneous descriptions, missing information, etc.

# Before Use

## 1. Indications for Use

This application allows the scan protocols created and edited in Toshiba X-ray CT systems to be reviewed and approved. This application also permits the approved scan protocols to be distributed to other Toshiba X-ray CT systems in the hospital/institution.

# Organization of the Operation Manuals

In this operation manual, the following word is used in addition to the signal words related to the safety precautions (refer to section 2 "General Safety Information"). Please read this operation manual before using the system.

<b>NOTE:</b> Indicates reference information that enables more efficient use of the equipment.
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# 1. Application

This operation manual applies to CT Protocol Management.

## 2. General Safety Information

### 2.1 Meaning of Signal Words


In this operation manual, the signal words **DANGER**, **WARNING**, and **CAUTION** are used to indicate safety and other important instructions. The signal words and their meanings are defined as follows. Please understand their meanings clearly before reading this manual.

Signal word	Meaning
 <b>DANGER</b>	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
 <b>WARNING</b>	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
 <b>CAUTION</b>	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
<b>CAUTION</b>	Indicates a potentially hazardous situation which, if not avoided, may result in property damage.

### 2.2 Safety Precautions

To ensure the safety of patients and operators, observe the following safety precautions.

When "Toshiba" is selected from the Help (Central) menu, safety precautions are displayed in Italian, French, Spanish, German, Dutch, or Portuguese (South America) according to the language environment of the system.

-  **CAUTION:**
1. In this software, the scan conditions set in the scan protocols are not confirmed automatically. Be sure to confirm the scan conditions set in the scan protocols and approve or reject scan protocols based on the clinical judgment of a healthcare professional.
  2. The approval information attached to scan protocols by this software does not ensure the safety of the scan protocols. Before scanning, confirm the scan conditions set in the scan protocols and use the scan protocols based on the clinical judgment of a healthcare professional.

## 3. About CT Protocol Management

### 3.1 Outline

CT Protocol Management (hereinafter referred to as "this software") is used to review and approve scan protocols that have been created or edited in Toshiba X-ray CT systems in order to distribute the approved scan protocols to other Toshiba X-ray CT systems at the hospital/institution.

### 3.2 Functions

The input/output data of this software are as follows.

#### (1) Input data

Scan protocols that have been created, edited, or deleted in the following Toshiba X-ray CT systems (hereinafter referred to as "Toshiba scanners").

- |                                     |               |
|-------------------------------------|---------------|
| • Aquilion ONE (TSX-301C, TSX-301A) | V7.0 or later |
| • Aquilion ONE (TSX-305A)           | V8.0 or later |
| • Aquilion PRIME (TSX-303A)         | V7.0 or later |
| • Aquilion Lightning (TSX-035A)     | V7.0 or later |

#### (2) Output data

Scan protocols with approval information attached by this software

This software has the following two main functions.

- Scan protocol approval management : The scan conditions set in the scan protocols are displayed and the scan protocols are approved.
- Scan protocol distribution/  
transfer history management : The distribution status of the scan protocols to other Toshiba scanners and the approval history of the scan protocols are confirmed and managed.  
When the function for distributing the scan protocols to other Toshiba scanner models (hereinafter referred to as "cross-model distribution") is enabled, the cross-model distribution status and history are also confirmed and managed.








### 3.2.1 Scan protocol approval management

This function collects the scan protocols that have been created, edited, or deleted in Toshiba scanners and approves the scan protocols after the scan conditions set in the scan protocols are confirmed.

The types of scan protocols that can be approved are as follows.

- eXam Plan
- SURE<sub>IQ</sub>
- SURE<sub>Exposure 3D</sub>
- Contrast Preset
- Voice Preset



The approval types attached to scan protocols by this software are as follows.

- Approve (  ) : The scan protocol is approved.  
An approved scan protocol is distributed to all Toshiba scanners with the same system model and software version as the Toshiba scanner where the scan protocol was created or edited so that it can be used in all applicable Toshiba scanners.
- Keep Locally (  ) : The scan protocol is "Keep Locally" approved.  
A "Keep Locally" approved scan protocol is distributed to all Toshiba scanners with the same system model and software version as the Toshiba scanner where the scan protocol was created or edited. However, a "Keep Locally" approved scan protocol can be used only in the Toshiba scanner where the scan protocol was created or edited. Note that only eXam Plans can be "Keep Locally" approved.
- Reject (for approval) (  ) : Approval of the scan protocol is rejected.  
A scan protocol for which approval is rejected is distributed only to the Toshiba scanner where the scan protocol was created or edited. The scan protocols saved in the Toshiba scanner are returned to the status before creation or editing of the protocol.
- Delete (  ) : Deletion of the scan protocol is approved.  
A scan protocol for which deletion is approved is distributed to all Toshiba scanners with the same system model and software version as the Toshiba scanner where the scan protocol was deleted. It is therefore deleted from all applicable Toshiba scanners.
- Reject (for deletion) (  ) : Deletion of the scan protocol is rejected.  
A scan protocol for which deletion is rejected is distributed only to the Toshiba scanner where the scan protocol was deleted. The scan protocols saved in the Toshiba scanner are returned to the status before deletion of the protocol.



### 3.2.2 Scan protocol distribution/transfer history management


This function confirms the distribution status of the scan protocols approved by this software to other Toshiba scanners and the approval history of the scan protocols.


The distribution statuses of the scan protocols to the other Toshiba scanners are defined as follows.

- Scan protocol to be distributed  
(not yet distributed) (  ) : Indicates the status in which the scan protocol has not yet been distributed to the applicable Toshiba scanners.
- Scan protocol to be distributed  
(already distributed) (  ) : Indicates the status in which the scan protocol has already been distributed to the applicable Toshiba scanners.
- Scan protocol not to be distributed (blank) : Indicates the status in which the scan protocol is not to be distributed.

The following approval types are provided for the scan protocols that have been approved or deleted by this software.

- Delete (  ) : Deletes an approved protocol or a "Keep Locally" approved scan protocol. The deleted scan protocol is also deleted from all applicable Toshiba scanners. Note that this function is available for eXam Plans only.
- Restore (  ) : Restores a deleted scan protocol to its original status. If the restored scan protocol is an approved scan protocol, it can be used in all applicable Toshiba scanners. If the restored scan protocol is a "Keep Locally" approved scan protocol, it can be used only in the Toshiba scanner where "Keep Locally" approval of the scan protocol was requested. Note that this function is available for eXam Plans only.

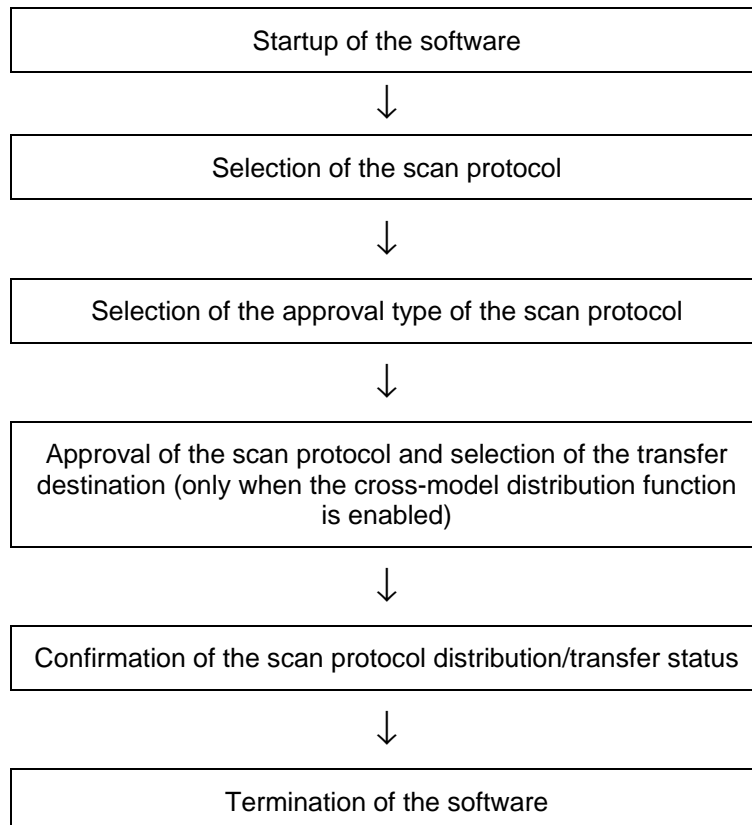
When the cross-model distribution function is enabled, the status of distribution/transfer of the scan protocols to Toshiba scanners and the transfer history of the scan protocols can also be confirmed. A scan protocol can be transferred when the scan protocol is approved or an approved scan protocol is selected and the [  Transfer] button is then selected.

- Transfer (  ) : Transfers an approved scan protocol to other Toshiba scanners that are different models than the Toshiba scanner where the scan protocol was created or edited. Whether the transferred scan protocol is applied is determined at each Toshiba scanner.

### 3.3 Operating Precautions

When X-ray CT scanners connected to this system (workstation or server in which this software is installed) are in operation, be sure to turn ON the power of this system to enable communication between the X-ray CT scanners and this system.

## 4. Flow of Operation





## 5.2 Selection of the Scan Protocol

- (1) When a scan protocol is selected, the scan conditions set in the selected scan protocol are displayed as shown in the figure below.

CT Protocol Management

Request List History List

Requests (14) Refresh Back

Protocol	Patient Type	Name	Version	Date	Scanner	User
ExamPlan	Adult	Routine Head	1.0	2015 May 27 10:10	CSW-13A-08	CSW-13A-08
ExamPlan	Adult	Routine Chest	1.0	2015 May 27 10:12	CSW-13A-08	CSW-13A-08
ExamPlan	Adult	Routine Abdomen	1.0	2015 May 27 10:13	CSW-13A-08	CSW-13A-08
ExamPlan	Adult	Liver Test	1.0	2015 May 27 10:14	CSW-13A-08	CSW-13A-08

Detail

**Routine Head**  
Aquilion ONE/Vision 320  
V7.0SP0000E  
V1.0 2015 May 27 10:10

Collapse All Show Differences Only

Comments(Protocol Creator) New Created

▼ ScanList

▼ Scanogram(Lat)

▼ Scan Parameter

Parameter	Value
ScanMode	Scanogram(Lat)
mA	50
StartMode	P
WaitTime	0.00
kV	120
Range	240.0
Direction	OUT
Display Filter	FL03 (FL03)
Protocol Comment	
Prescan Voice	OFF

Approve Keep Locally Reject

- (2) If a scan protocol is edited or a new scan protocol is created using another scan protocol as a template, the scan conditions set in the scan protocol before editing or the scan conditions set in the scan protocol used as a template are also displayed simultaneously. The parameters that differ between the two protocols are highlighted.

CT Protocol Management

Request List History List

Requests (14) Refresh Back

Protocol	Patient Type	Name	Version	Date	Scanner	User
ExamPlan	Adult	Head CBP	2.0	2015 May 27 10:19	CSW-13A-08	CSW-13A-08
SURE Exposure	Adult	Head High Quality	1.0	2015 May 27 10:20	CSW-13A-08	CSW-13A-08
SURE IQ	Adult	Soft Tissue Smooth	1.0	2015 May 29 10:48	CSW-13A-08	CSW-13A-08
SURE Exposure	Adult	All Low Dose	1.0	2015 May 29 10:48	CSW-13A-08	CSW-13A-08

Detail

**Head CBP**  
Aquilion ONE/Vision 320  
V7.0SP0000E  
V1.0 2015 May 27 10:10

**Head CBP**  
Aquilion ONE/Vision 320  
V7.0SP0000E  
V2.0 2015 May 27 10:19

Collapse All Show All

Comments(Protocol Creator) New Created Edited

▼ ScanList

▼ Helical

▼ Scan Parameter

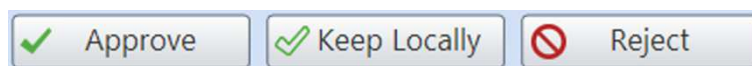
Parameter	New Created	Edited
mA	300	200
Eff mA	234	109
RotationTime	0.5	0.35
TotalScanTime	5.9	4.2
CTDI	48.3 (Head)	22.5 (Head)
DLP	1095.0 (Head)	513.8 (Head)
Max Scan Range	1905.0	1908.0
Recon Parameters		
▼ Axis1		
SliceInterval	5.00 mm	4.00 mm
Vari-Area	YES	NO


Approve Keep Locally Reject

## 5.3 Selection of the Approval Type of the Scan Protocol

When the target scan protocol is selected, the approval type selection buttons are displayed at the lower part of the window.

<For a scan protocol that was created or edited in a Toshiba scanner>



\* [  Keep Locally ] is displayed only when an eXam Plan approval request is selected.

<For a scan protocol that was deleted in a Toshiba scanner>





The approval type selection buttons are displayed only when the user is logged in to the system with an administrator account. If this software is used by the user without an administrator account, the approval type selection buttons are not displayed.

**NOTE:** The acceptable combinations of login user groups, expected users of each group, and CT Protocol Management functions are as follows.

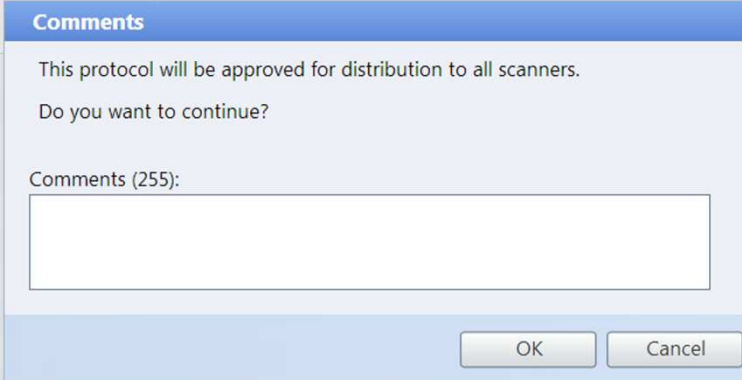
User group	Expected users	CT Protocol Management functions
Users	General users	Browsing of the protocols listed in the [Request List] tab Browsing of the protocols listed in the [History List] tab Browsing of the protocols listed in the [Transfer List] tab
Approvers	Administrator users	Browsing and approval of the protocols listed in the [Request List] tab Browsing and deletion/restoration/transfer of the protocols listed in the [History List] tab Browsing of the protocols listed in the [Transfer List] tab
Administrators	Toshiba service personnel	Browsing and approval of the protocols listed in the [Request List] tab Browsing and deletion/restoration/transfer of the protocols listed in the [History List] tab Browsing of the protocols listed in the [Transfer List] tab CT connection setting in the [App Settings] tab CT initial setting (master protocol creation) in the [App Settings] tab

## 5.4 Approval of the Scan Protocol



When one of the approval type selection buttons is clicked, the scan protocol approval confirmation dialog is displayed as shown in the figure below.

<When [  Approve] or [  Delete] is clicked>

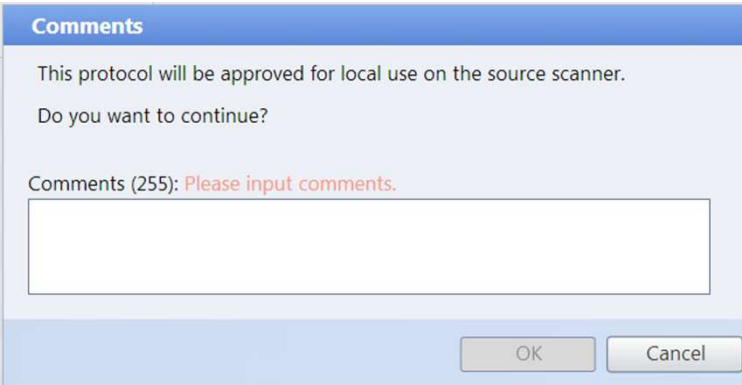
Optional comments regarding approval or deletion can be entered in the Comments field of the dialog if desired.




The dialog box has a blue title bar labeled "Comments". The main area contains the text "This protocol will be approved for distribution to all scanners." followed by "Do you want to continue?". Below this is a text input field labeled "Comments (255):". At the bottom right are "OK" and "Cancel" buttons.

<When [  Keep Locally] or [  Reject] is clicked>

It is mandatory to enter a comment for "Keep Locally" approval or rejection in the Comments field in the dialog. Up to 255 characters can be used when entering comments. [OK] in the dialog cannot be clicked unless a comment has been entered.



The dialog box has a blue title bar labeled "Comments". The main area contains the text "This protocol will be approved for local use on the source scanner." followed by "Do you want to continue?". Below this is a text input field labeled "Comments (255):" with the text "Please input comments." in red. At the bottom right are "OK" and "Cancel" buttons.

<If [  Approve] is clicked when the cross-model distribution function is enabled>

The transfer destination list is displayed in the dialog. Select the desired transfer destination by placing a check mark in the corresponding box.

**Confirm**

This protocol will be approved for distribution to all scanners.  
Do you want to continue?

**Transfer Destinations**

	Group	Model	Software Version
<input type="checkbox"/>	CTGroup02	AquilionPRIME	V7.0SP0300
<input type="checkbox"/>			
<input type="checkbox"/>			

Comments (255):

OK

Cancel



## 5.5 Confirmation of the Scan Protocol Distribution/Transfer Status

When [OK] in the dialog is clicked and the [History List] tab is then selected, the scan protocol distribution status can be confirmed.

CT Protocol Management

Request List History List

Histories (7) Refresh

Protocol	Patient Type	Name	Date	CTGroup01 AquilionONEVision V7.0SP0000 2 scanners
✓ SURE IQ		Head Brain	2015 May 29 10:44	✓ 2/2
✓ SURE Exposure	Child	Head Standard	2015 May 29 10:44	✓ 2/2
✓ ContrastPreset	Adult	Contrast agent 1	2015 May 29 10:44	✓ 2/2
✓ SURE IQ		Bone Standard	2015 May 29 10:43	✓ 2/2
✓ ExamPlan	Adult	Neck	2015 May 29 10:39	✓ 2/2
✓ ExamPlan	Adult	Lung Test	2015 May 27 10:10	✓ 2/2
✓ ExamPlan	Adult	Head CBP	2015 May 27 10:10	✓ 2/2

Show More

When the cross-model distribution function is enabled, select the [Transfer List] tab and confirm the scan protocol transfer status.

CT Protocol Management

Request List History List Transfer List

Transfers (1) Refresh

Protocol	Patient Type	Name	Date	Source Scanner	CTGroup01 AquilionONEVision V7.0SP0000 2 scanners	CTGroup02 AquilionPRIME V7.0SP0000 1 scanner
➔ ExamPlan	Adult	Head CBP	2016 Jul 27 16:12	CT01 (CTGroup01)		✓ 0/1

Protocol History (4)

Event	User	Date	Comment
! Create(Request)	CT01	2015 May 27 10:11	New Created.
✓ Approve	admin	2015 May 27 10:10	Approved.
➔ Transfer(Request)	admin	2016 Jul 27 16:12	
➔ Transfer	admin	2016 Jul 27 16:12	[System Generated Comment] Transfer request for protocol has been sent to CTGroup02...

Detail

Collapse All Show Differences Only

Head CBP  
Aquilion ONE/Vision 320  
V7.0SP0000E  
V1.0 2016 Jul 27 16:12

Comments(Protocol Creator)

Comments(Protocol Approver)

[System Generated Comment] Transfer request for protocol has been sent to CTGroup02.

▼ ScanList

▼ Scanogram(Lat)

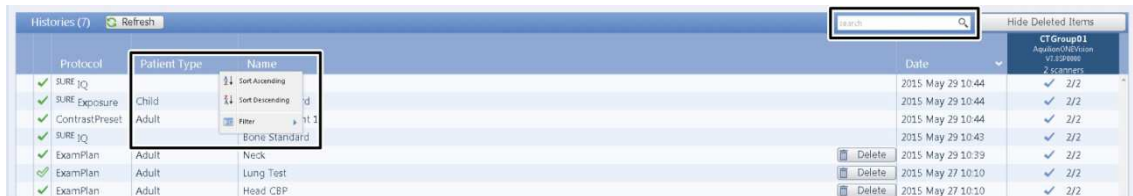
▼ Scan Parameter

ScanMode	Scanogram(Lat)
mA	50
StartMode	P
StartTime	0.00
WaitTime...	n.nn



In the [History List] and [Transfer List] tabs, the following processing can be performed.

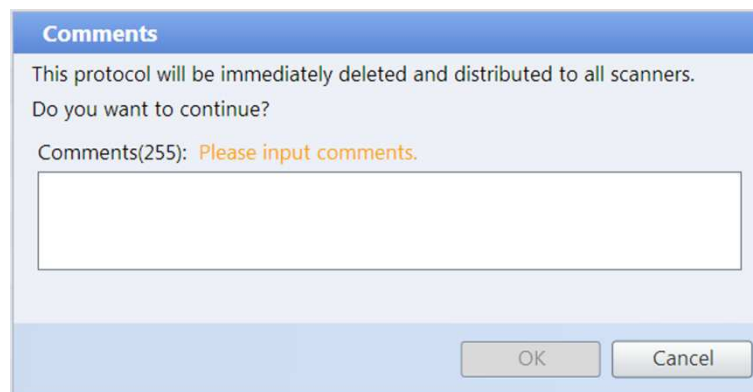
(1) Filtering of the Protocol list



Sorting and filtering can be performed for each column of the Protocol list.  
When a keyword is entered in the search box and the [Enter] key on the keyboard is pressed, the protocol names containing the keyword are searched to filter the Protocol list.



(2) Deletion and restoration of scan protocols (for the History list only)

When [  Delete] or [  Restore] displayed in the Name column is clicked, the corresponding scan protocol can be deleted or restored to the status before deletion.



[  Delete] and [  Restore] for deleting or restoring scan protocols are displayed only when the user is logged in to the system with an administrator account. If this software is used by the user without an administrator account, the deletion and restoration buttons are not displayed.

### (3) Transfer of scan protocols (History list only)

When the [ ➡ Transfer] button in the protocol name field is clicked, a scan protocol can be transferred to other Toshiba scanners that are different models than the Toshiba scanner where the scan protocol was created or edited.

Confirm

This protocol will be approved for distribution to all scanners.

Do you want to continue?

Transfer Destinations

	Group	Model	Software Version
<input type="checkbox"/>	CTGroup02	AquilionPRIME	V7.0SP0300

Comments (255):

OK

Cancel

### (4) Confirmation of the scan protocol approval/transfer history

When a scan protocol is selected in the Protocol list, the approval/transfer history of the selected scan protocol is displayed as a list. In addition, when an approval/transfer history is selected in the list, the scan conditions set when the selected scan protocol was approved/transferred are displayed.

Histories (7)

Refresh

Protocol

Patient Type

Name

Date

CTGroup01

ExamPlan

Adult

Head CBP

Delete

2015 May 27 10:10

2/2

Protocol History (2)

Hide

Event	User	Date	Comment
Create(Request)	CSW-13A-08	2015 May 27 10:11	New Created.
Approve	admin	2015 May 27 10:10	Approved.

Detail

Collapse All

Show Differences Only

Head CBP

Aquilion ONE Vision 320

V7.0SP0000E

V1.0 2015 May 27 10:10

Comments(Protocol Creator)

New Created.

Comments(Protocol Approver)

Approved.

ScanList

Scanogram(Lat)

Scan Parameter

ScanMode

mA

StartMode

StartTime

WaitTime

kV

Range

Direction

Scanogram(Lat)

50

P

0.00

0.00

120

240.0

OUT

## 5.6 Termination of the Software

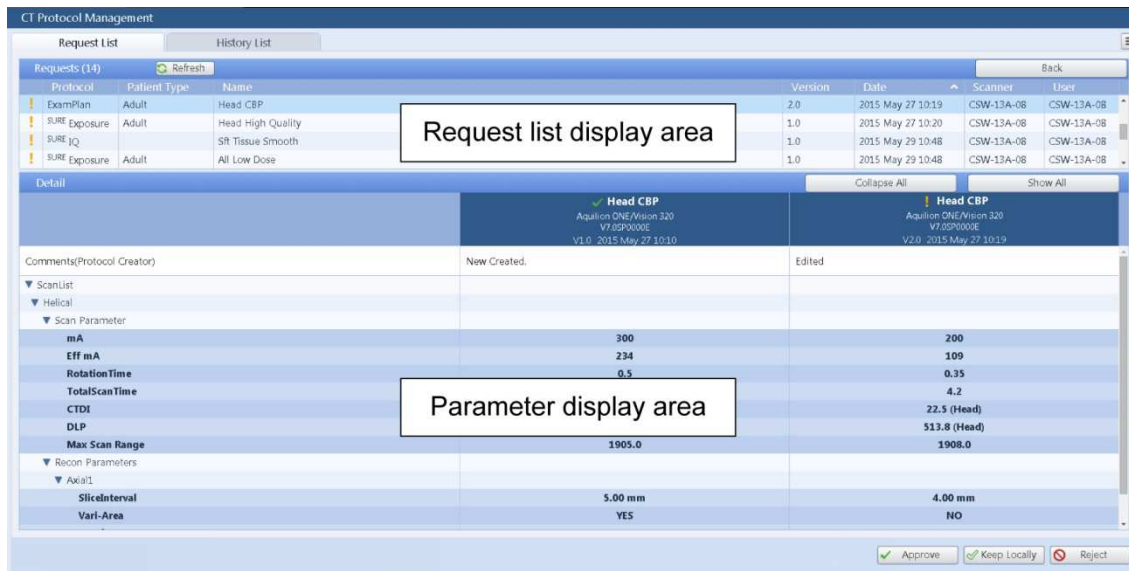
When [×] on the "CT Protocol Management" tab of this software is clicked, the software is terminated.



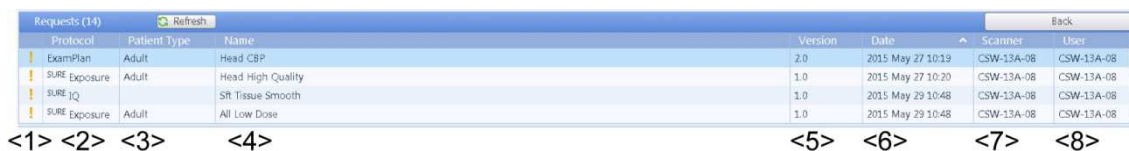
## 6. Descriptions of Windows and Buttons

### 6.1 Request List Window

This window is used to approve or delete protocols.



(1) Request list display area



<1> Protocol status

An icon indicating the protocol status is displayed.  
The status types are as follows.

- Approval requested
- Deletion requested

<2> Protocol Type

The protocol type is displayed.  
The protocol types are as follows.

- eXam Plan
- SURE<sub>IQ</sub>
- SURE<sub>Exposure 3D</sub>
- Contrast Preset
- Voice Preset

### <3> Patient Type

The patient type ("Adult", "Child", or "Trauma Adult (eXam Plans only)") of the protocol is displayed.

Note that the patient type for SUREIQ and Voice Preset are left blank.

### <4> Name

The protocol name is displayed. If the protocol name is too long to be displayed, it is truncated with "...".

### <5> Version

The protocol version is displayed. The protocol version is incremented in steps of 1 each time the protocol is updated.

### <6> Date

The date when the protocol was sent from the Toshiba scanner is displayed.

### <7> Scanner

The name of the Toshiba scanner from which the protocol was sent is displayed.

### <8> User

The name of the user who sent the protocol is displayed.

## (2) Parameter display area

Detail	Collapse All	Show All
	Head CBP Aquilion ONE Vision 320 V7.0SP0000E V1.0 2015 May 27 10:10	Head CBP Aquilion ONE Vision 320 V7.0SP0000E V2.0 2015 May 27 10:19
Comments(Protocol Creator)	New Created.	Edited
▼ Scan List		
▼ Helical		
▼ Scan Parameter		
mA	300	200
Eff mA	234	109
RotationTime	0.5	0.35
TotalScanTime	5.9	4.2
CTDI	48.3 (Head)	22.5 (Head)
DLP	1095.0 (Head)	513.8 (Head)
Max Scan Range	1905.0	1908.0
▼ Recon Parameters		
▼ Axial1		
SliceInterval	5.00 mm	4.00 mm
Vari-Area	YES	NO

<1> <2> <3>

### <1> Parameter names

The names of the parameters of the protocol are displayed.

### <2> Parameters of the protocol for comparison

The parameters of the protocol for comparison are displayed. As the default setting, these parameters are not displayed for a newly created protocol or a protocol for which deletion is requested.

### <3> Parameters of the protocol for which a request is made

The parameters of the protocol for which a request is made are displayed.

(3) [Approve] button

This button is used to approve the protocol.



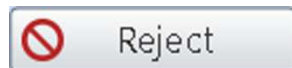
(4) [Keep Locally] button

This button is used to "Keep Locally" approve the protocol. This button is displayed only when an eXam Plan approval request is selected.



(5) [Reject] button

This button is used to reject approval or deletion of the protocol.



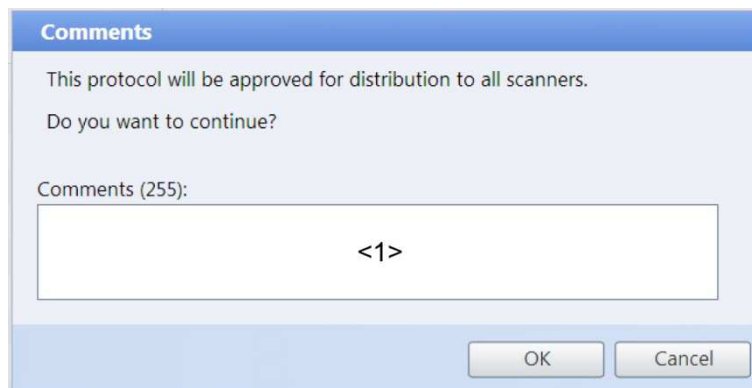
(6) [Delete] button


This button is used to approve deletion of the protocol.

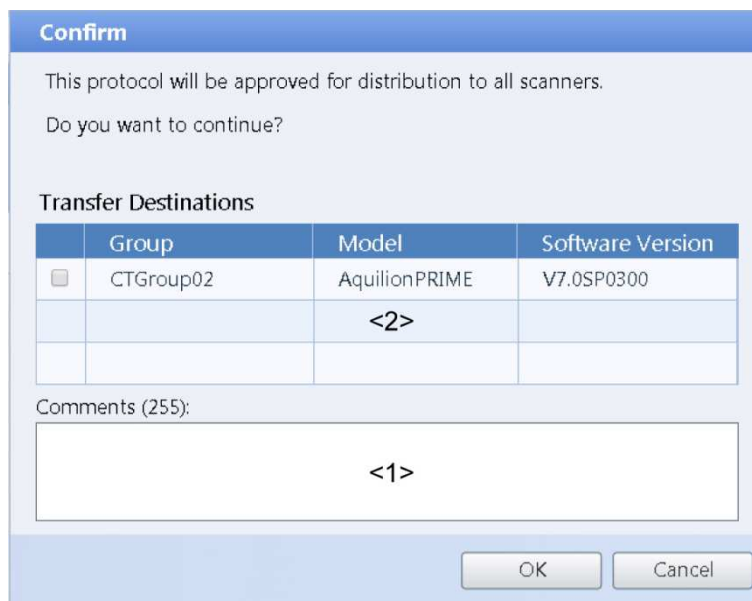


(7) Confirmation dialog

When any of the above buttons is clicked, the following confirmation dialog is displayed.



If [  Approve] is clicked when the cross-model distribution function is enabled, the following dialog is displayed.



**Confirm**

This protocol will be approved for distribution to all scanners.  
Do you want to continue?

**Transfer Destinations**

	Group	Model	Software Version
<input type="checkbox"/>	CTGroup02	AquilionPRIME	V7.0SP0300
		<2>	

Comments (255):

<1>

<1> Comments entry field

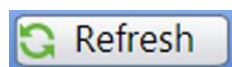
Comments can be entered in this field. Up to 255 characters can be used when entering comments.

<2> Transfer destination list display table (only when the cross-model distribution function is enabled)

Groups of Toshiba scanners to which the scan protocol can be transferred are displayed in this table. The scan protocol can be transferred to the transfer destinations selected by placing a check mark in the corresponding boxes.

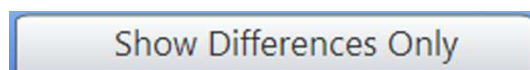
(8) [Refresh]

This button is used to update the window when a new request is received from a Toshiba scanner.



(9) [Show Differences Only]

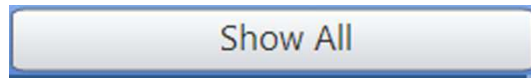
This button is used to display only parameters with differences when the comparison protocol is displayed. When [Show Differences Only] is clicked, it changes to [Show All].





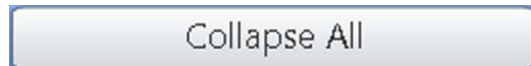
(10) [Show All]

This button is used to display all parameters when the comparison protocol is displayed. When [Show All] is clicked, it changes to [Show Differences Only].



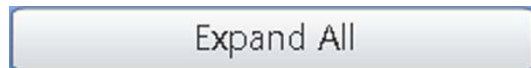
(11) [Collapse All]

This button is used to minimize display of the parameters below the scan mode when parameter display is maximized (all parameters are displayed). When this button is clicked, it changes to the [Expand All] button.



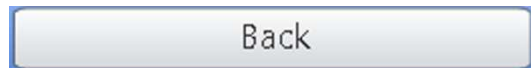
(12) [Expand All]

This button is used to expand (maximize) display of all parameters when parameter display is minimized. When this button is clicked, it changes to the [Collapse All] button.



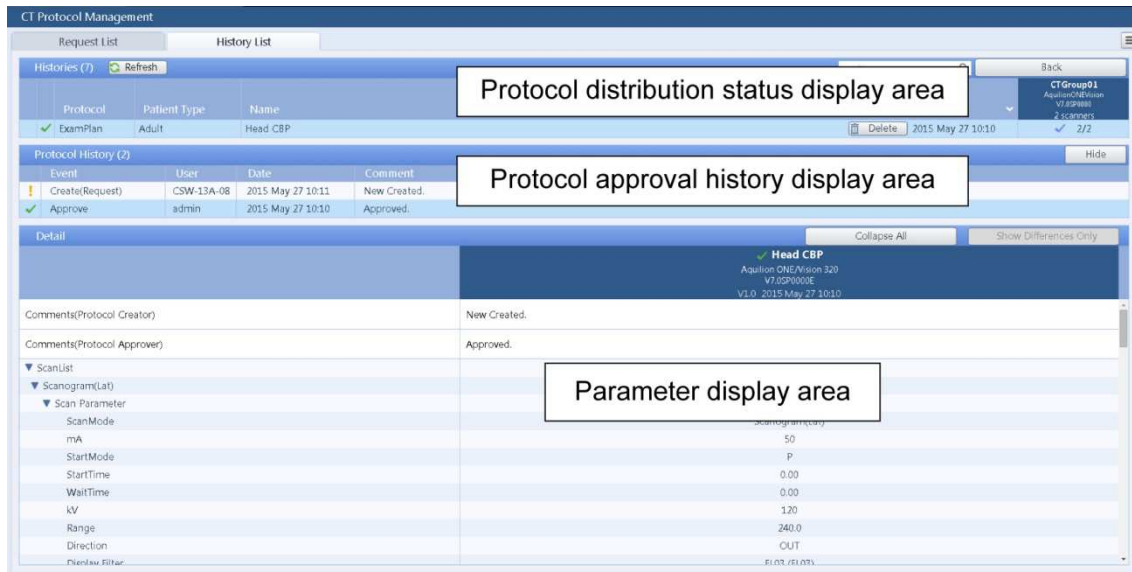
(13) [Back]

This button is used to return to the request list window when the parameters are currently displayed.



## 6.2 History Window

The history of the protocols that have been approved, deleted, and distributed can be confirmed.



(1) Protocol distribution status display area



### <1> Protocol status

An icon indicating the protocol status is displayed. The status types are as follows.

- Already approved
- "Keep Locally" approved
- Approval rejected
- Already deleted

### <2> Protocol Type

The protocol type is displayed. The protocol types are as follows.

- eXam Plan
- SURE<sub>IQ</sub>
- SURE<sub>Exposure 3D</sub>
- Contrast Preset
- Voice Preset

### <3> Patient Type

The patient type ("Adult", "Child", or "Trauma Adult (eXam Plans only)") of the protocol is displayed.

Note that the patient type for <sup>SURE</sup>IQ and Voice Preset are left blank.

### <4> Name



The protocol name is displayed. If the protocol name is too long to be displayed, it is truncated with "...".

### <5> Date

The date of approval of the protocol is displayed.

### <6> Distribution status display area

The distribution status for each Toshiba scanner is displayed.  
The status types are as follows.

- Scan protocol to be distributed (not yet distributed) 
- Scan protocol to be distributed (already distributed) 
- Scan protocol not to be distributed (blank)








## (2) Protocol approval history display area

Protocol History (2)				Hide
Event	User	Date	Comment	
 Create(Request)	CSW-13A-08	2015 May 27 10:11	New Created.	
 Approve	admin	2015 May 27 10:10	Approved	

<1>   <2>   <3>   <4>   <5>

### <1> Protocol status

An icon indicating the protocol status is displayed.  
The status types are as follows.

- Already approved 
- "Keep Locally" approved 
- Approval rejected 
- Already deleted/canceled 
- Deletion rejected 
- Restored 
- Already transferred 

### <2> Event

The operation history for the protocol is displayed.

### <3> User

The name of the user who sent an approval request from a Toshiba scanner or the name of the approver is displayed.

### <4> Date

The date when a protocol was sent from a Toshiba scanner or the date of approval of the protocol is displayed.

### <5> Comment

The comments left by the user who sent an approval request from a Toshiba scanner or the approver are displayed.

## (3) Parameter display area

Detail		Collapse All		Show All	
<div>Comments(Protocol Creator)</div> <div>▼ ScanList</div> <div>▼ Helical</div> <div>▼ Scan Parameter</div> <div>mA</div> <div>Eff mA</div> <div>RotationTime</div> <div>TotalScanTime</div> <div>CTDI</div> <div>DLP</div> <div>Max Scan Range</div> <div>▼ Recon Parameters</div> <div>▼ Axial1</div> <div>SliceInterval</div> <div>Vari-Area</div>	Head CBP		Head CBP		
	Aquilion ONE/Vision 320		Aquilion ONE/Vision 320		
	V7.0SP0000E		V7.0SP0000E		
	V1.0 2015 May 27 10:10		V2.0 2015 May 27 10:19		
	New Created.		Edited		

### <1> Parameter names

The names of the parameters of the protocol are displayed.

### <2> Parameters of the protocol for comparison

The parameters of the protocol for comparison are displayed. As the default setting, these parameters are not displayed for a newly created protocol or a protocol for which deletion is requested.

### <3> Parameters of the protocol for which a request is made

The parameters of the protocol for which a request is made are displayed.

## (4) [Hide Delete Items]

This button is used to hide the deleted protocols in the distribution history list. When [Hide Delete Items] is clicked, it changes to [Show Delete Items].

Hide Delete Items

(5) [Show Delete Items]

This button is used to display the deleted protocols in the distribution history list. When [Show Delete Items] is clicked, it changes to [Hide Delete Items].



(6) [Restore]

This button is used to restore a deleted protocol to the status before deletion.



(7) [Delete]

This button is used to delete an approved protocol or a "Keep Locally" approved protocol.



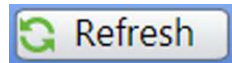
(8) Confirmation dialog

This dialog is displayed when [  Restore], [  Delete], or [  Transfer] is clicked.

This is the same as the confirmation dialog in (7) of subsection 6.1.

(9) [Refresh]

This button is used to update the window when a new request is received from a Toshiba scanner.



(10) [search] box

This text box is used to search a specific protocol by entering the protocol name as a keyword.



(11) [Show More]

This button is used to read the previously approved protocols. When this button is clicked, protocols for one month can be read.



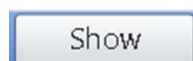
(12) [Hide]

This button is used to hide the protocol approval history display area. When [Hide] is clicked, it changes to [Show].



(13) [Show]

This button is used to display the protocol approval history display area. When [Show] is clicked, it changes to [Hide].



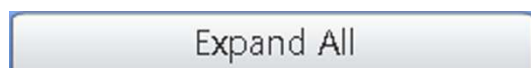
(14) [Collapse All]

This button is used to minimize display of the parameters below the scan mode when parameter display is maximized (all parameters are displayed). When this button is clicked, it changes to the [Expand All] button.



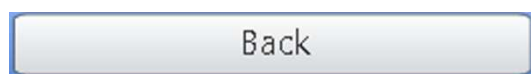
(15) [Expand All]

This button is used to expand (maximize) display of all parameters when parameter display is minimized. When this button is clicked, it changes to the [Collapse All] button.



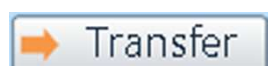
(16) [Back]

This button is used to close the protocol approval history display area and parameter display area and return to the distribution history list.



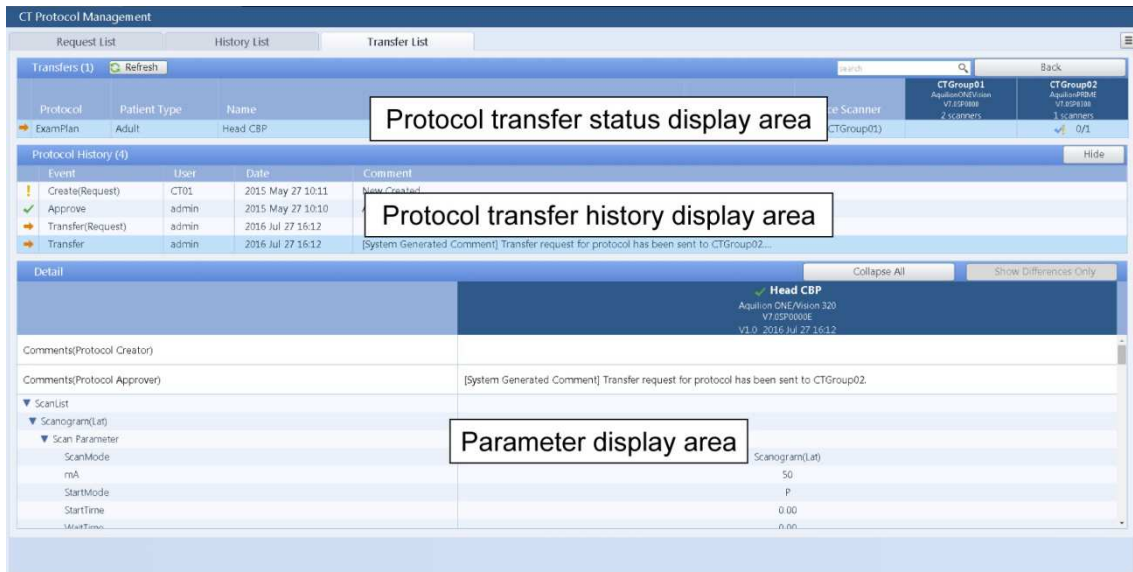
(17) [Transfer]

This button is used to transfer an approved scan protocol to other Toshiba scanners that are different models than the Toshiba scanner where the scan protocol was created or edited.



## 6.3 Transfer Window

The history of the protocols that have been distributed/transferred through cross-model distribution can be confirmed.



### (1) Protocol transfer status display area



#### <1> Protocol status

An icon indicating the protocol status (already transferred) is displayed.

- Already transferred →

#### <2> Protocol Type

The protocol type is displayed. The protocol types are as follows.

- eXam Plan
- SURE<sub>IQ</sub>
- SURE<sub>Exposure 3D</sub>
- Contrast Preset
- Voice Preset

#### <3> Patient Type

The patient type ("Adult", "Child", or "Trauma Adult (eXam Plans only)") of the protocol is displayed.

Note that the patient type for SURE<sub>IQ</sub> and Voice Preset are left blank.

#### <4> Name

The protocol name is displayed. If the protocol name is too long to be displayed, it is truncated with "...".

#### <5> Date



The date of approval of the protocol is displayed.

#### <6> Source Scanner


The Toshiba scanner from which the protocol is transferred is displayed.

#### <7> Distribution status display area

The distribution status for each Toshiba scanner is displayed.  
The status types are as follows.

- Scan protocol to be distributed (not yet distributed) 
- Scan protocol to be distributed (already distributed) 
- Scan protocol not to be distributed (blank)








### (2) Protocol transfer history display area

Protocol History (4)					Hide
Event	User	Date	Comment		
 Create(Request)	CT01	2015 May 27 10:11	New Created.		
 Approve	admin	2015 May 27 10:10	Approved.		
 Transfer(Request)	admin	2016 Jul 27 16:12	[System Generated Comment] Transfer request for protocol has been sent to CTGroup02...		
 Transfer	admin	2016 Jul 27 16:12			

<1>   <2>   <3>   <4>   <5>

#### <1> Protocol status

An icon indicating the protocol status is displayed.  
The status types are as follows.

- Already approved 
- "Keep Locally" approved 
- Approval rejected 
- Already deleted/canceled 
- Deletion rejected 
- Restored 
- Already transferred 

#### <2> Event

The operation history for the protocol is displayed.

#### <3> User

The name of the user who sent an approval request from a Toshiba scanner or the name of the approver is displayed.



#### <4> Date

The date when a protocol was sent from a Toshiba scanner or the date of approval of the protocol is displayed.

#### <5> Comment

The comments left by the user who sent an approval request from a Toshiba scanner or the approver are displayed.

### (3) Parameter display area

Detail	Collapse All	Show All
Comments(Protocol Creator)	New Created.	Edited
▼ Scan List		
▼ Helical		
▼ Scan Parameter		
mA	300	200
Eff mA	234	109
RotationTime	0.5	0.35
TotalScanTime	5.9	4.2
CTDI	48.3 (Head)	22.5 (Head)
DLP	1095.0 (Head)	513.8 (Head)
Max Scan Range	1905.0	1908.0
▼ Recon Parameters		
▼ Axial1		
SliceInterval	5.00 mm	4.00 mm
Vari-Area	YES	NO

<1> <2> <3>

#### <1> Parameter names

The names of the parameters of the protocol are displayed.

#### <2> Parameters of the protocol for comparison

The parameters of the protocol for comparison are displayed. As the default setting, these parameters are not displayed for a newly created protocol or a protocol for which deletion is requested.

#### <3> Parameters of the protocol for which a request is made

The parameters of the protocol for which a request is made are displayed.

### (4) [Hide Delete Items]

This button is used to hide the deleted protocols in the distribution history list. When [Hide Delete Items] is clicked, it changes to [Show Delete Items].

Hide Delete Items

### (5) [Show Delete Items]

This button is used to display the deleted protocols in the distribution history list. When [Show Delete Items] is clicked, it changes to [Hide Delete Items].

Show Delete Items

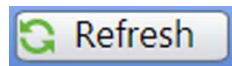
(6) Confirmation dialog

This dialog is displayed when [  Restore], [  Delete], or [  Transfer] is clicked.

This is the same as the confirmation dialog in (7) of subsection 6.1.

(7) [Refresh]

This button is used to update the window when a new request is received from a Toshiba scanner.



(8) [search] box

This text box is used to search a specific protocol by entering the protocol name as a keyword.



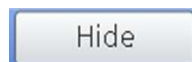
(9) [Show More]

This button is used to read the previously approved protocols. When this button is clicked, protocols for one month can be read.



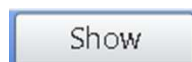
(10) [Hide]

This button is used to hide the protocol approval history display area. When [Hide] is clicked, it changes to [Show].



(11) [Show]

This button is used to display the protocol approval history display area. When [Show] is clicked, it changes to [Hide].



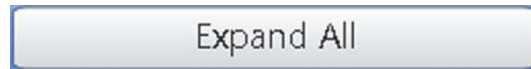
(12) [Collapse All]

This button is used to minimize display of the parameters below the scan mode when parameter display is maximized (all parameters are displayed). When this button is clicked, it changes to the [Expand All] button.



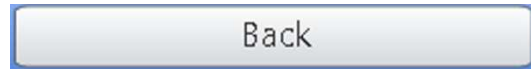
(13) [Expand All]

This button is used to expand (maximize) display of all parameters when parameter display is minimized. When this button is clicked, it changes to the [Collapse All] button.



(14) [Back]

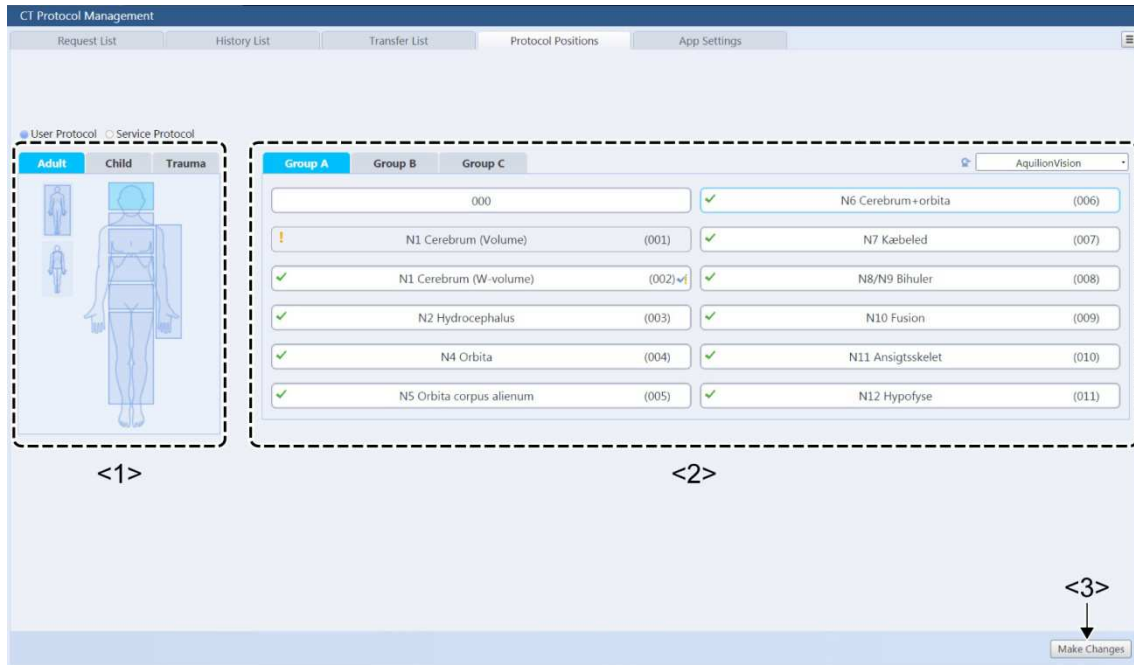
This button is used to close the protocol approval history display area and parameter display area and return to the distribution history list.



## 6.4 Protocol Position Setting Window

This window is used to set the position for the approved protocol (eXam Plan).

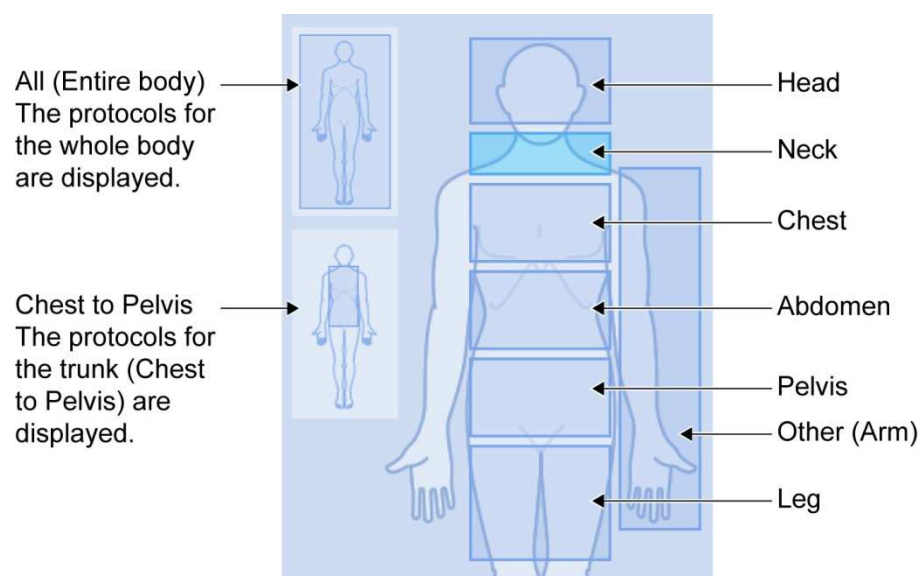
- NOTE:**
1. The protocol position setting window can be set to ON/OFF when the application is installed. The default setting is OFF. To set the protocol position setting window to ON, contact your service representative.
  2. During protocol position setting, in order to prevent data update conflicts, approval processes for other users or reception of scan protocols from the CT system is temporarily blocked. Such operation is enabled after protocol position setting is completed.



<1> Anatomical region selection area

A human body model for selecting the anatomical region for the protocol is displayed. If the anatomical region is selected, the corresponding protocol information is displayed in area <2>. When "User Protocol" is selected, the human body model is displayed for each patient type ("Adult", "Child", and "Trauma"). When "Service Protocol" is selected, the human body model is not displayed.

The parts of the human body model are defined as defined as follows.



#### <2> Protocol position selection area

Protocol position information is displayed.

The group of the displayed protocol can be changed from the drop-down list.

#### <3> [Make Changes] button

This button is used to change the protocol position setting.

When the [Make Changes] button is clicked, the [Activate Changes] and the [Undo Changes] buttons are displayed. The protocol position can be changed until either of these buttons is clicked. When the [Activate Changes] button is clicked, changes to the contents are applied. If the [Undo Changes] button is clicked, changes to the contents are canceled.

## 6.5 Comparison Protocol Selection Dialog

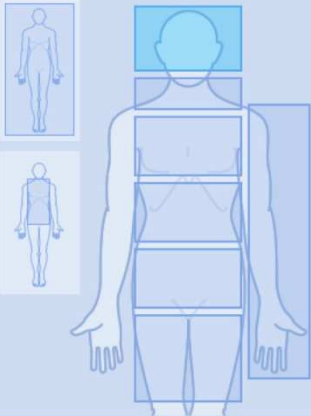
The comparison protocol selection dialog is a dialog for selecting the protocol for comparison.

The comparison protocol selection dialog can be opened only when the system is logged in by the user with an administrator account. If this software is used by the user without an administrator account, the comparison protocol selection dialog cannot be opened.

To open the comparison protocol selection dialog, move the mouse to the protocol header information area in the parameter display area (shown in subsection 6.1 (2) and subsection 6.2 (3)) and click the mouse button when the color of the header information changes.

**NOTE:** The protocols that have already been approved are displayed in the protocol list of the comparison protocol selection dialog. The protocols that are present in the request list are not displayed in the protocol list of the comparison protocol selection dialog. Note that if a changed version of the protocol for opening the corresponding comparison protocol is present in the request list, it is displayed in the protocol list of the comparison protocol selection dialog.

<b>✓ Head CBP</b> Aquilion ONE/Vision 320 V7.0SP0000E V1.0 2015 May 27 10:10	<b>! Head CBP</b> Aquilion ONE/Vision 320 V7.0SP0000E V2.0 2015 May 27 10:19
New Created.	Edited



Select Compared Protocol					
Aquilion ONE/Vision 320/V7...	Adult	Head CBP	2.0	2015 May 27 10:19	
Aquilion ONE/Vision 320/V7...	Adult	Head CBP	1.0	2015 May 27 10:10	

Protocol display area

Detail

Select Scan Mode

▼ ScanList

▼ Scanogram(Lat)

▼ Scan Parameter

ScanMode

mA

StartMode

StartTime

WaitTime

kV

Scanogram(Lat)

P

0.00

0.00

1.20

Parameter display area

OK

Cancel

Select Compared Scan Mode

Check Parameters

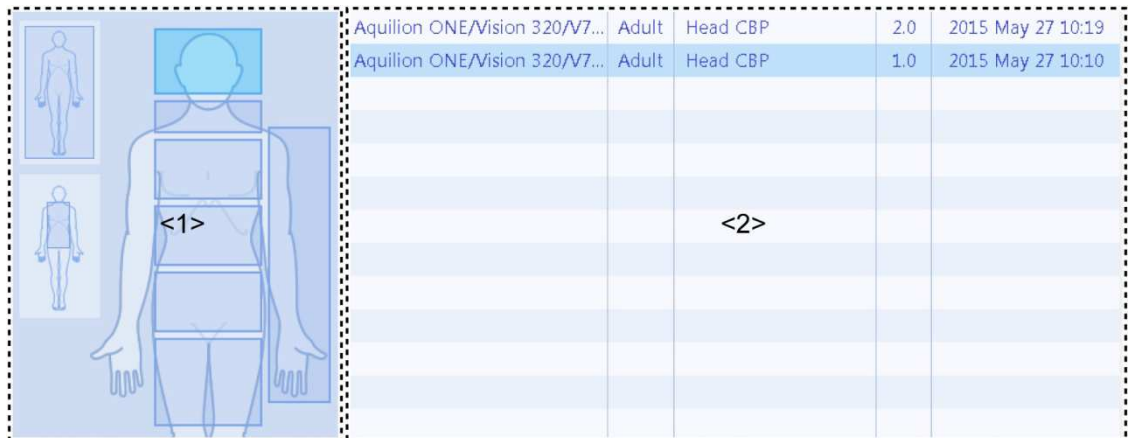
ExamPlan

☐ Scanogram(Lat)
 ☐ Scanogram(Lat)

☐ Helical
 ☐ Helical

Scan mode selection area

## (1) Protocol display area

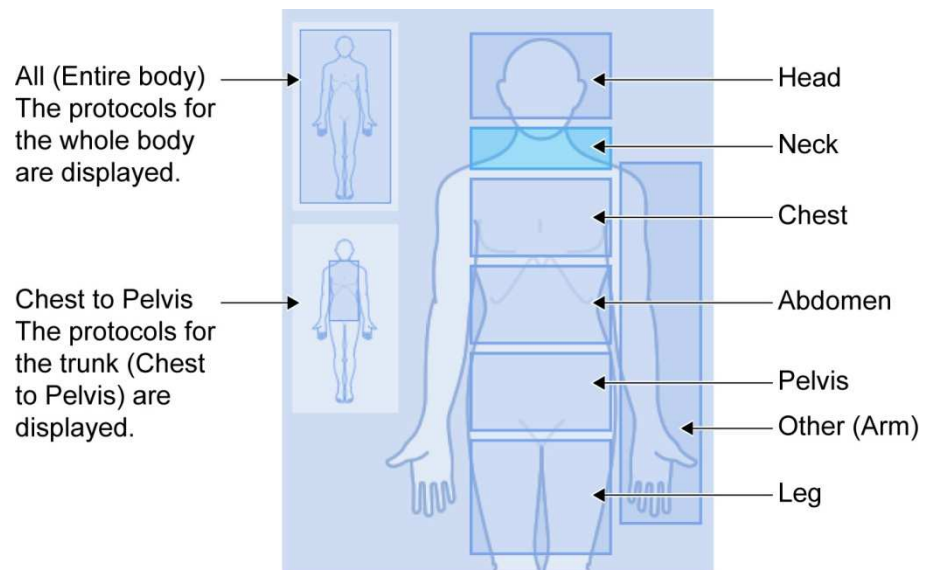


Aquilion ONE/Vision 320/V7...	Adult	Head CBP	2.0	2015 May 27 10:19
Aquilion ONE/Vision 320/V7...	Adult	Head CBP	1.0	2015 May 27 10:10

### <1> Anatomical region selection area

A human body model for selecting the anatomical region for the protocol for comparison is displayed in this area. When the target anatomical region is selected, the corresponding protocols for comparison are displayed as a list.

The parts of the human body model are defined as follows.



### <2> Protocol selection area

The selectable protocols for comparison are displayed in this area. The following information is displayed.

- System model and software version of a Toshiba scanner
- Patient type
- Protocol name
- Version
- Date of approval

## (2) Parameter display area

Detail		Select Scan Mode
▼ ScanList		
▼ Helical		
▼ Scan Parameter		
mA	200	<2>
NoOfScan	1	
StartTime	0	
WaitTime	0	
Collimation	0.5x64	
Pitch		

### <1> Parameter name

The name of the parameter of the protocol is displayed.

### <2> Protocol parameters

The parameter corresponding to each parameter name is displayed.

## (3) Scan mode selection area

Select Compared Scan Mode		Check Parameters
ExamPlan		
<input type="radio"/> Scanogram(Lat)		<input type="radio"/> Scanogram(Lat)
<input type="radio"/> Helical		<input type="radio"/> Helical

<1>

### <1> Scan mode selection area

The scan mode selection area is the area for selecting the scan mode for comparison.

- When scan modes are connected by a line : Compared.
- When scan modes are not connected by a line : Not compared.

(4) [Select Scan Mode]

This button is used to display the scan mode selection area for selecting the scan mode for comparison. When [Select Scan Mode] is clicked, it changes to [Check Parameters].



(5) [Check Parameters]

This button is used to display the parameters of the comparison protocol. When [Check Parameters] is clicked, it changes to [Select Scan Mode].





## 6.6 Setting Menu

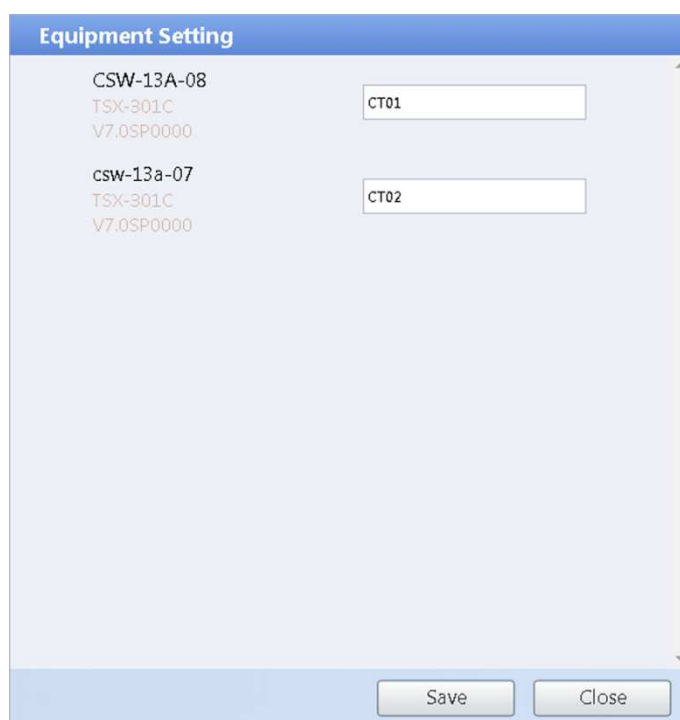
### (1) Equipment Setting dialog

This dialog is used to change the names of the X-ray CT systems (host names) displayed in the request list window and history window to names that can be easily identified by the user.

When the menu at the upper right of the request list window or history window is displayed, the Equipment Setting menu item can be selected.



When the [Equipment Setting] menu item is selected, the Equipment Setting dialog is displayed. The desired equipment names can be set, but the same name cannot be used more than once.

A screenshot of the 'Equipment Setting' dialog box. The dialog has a blue title bar with the text 'Equipment Setting'. Inside, there is a list of equipment entries. Each entry consists of a host name, a model name, and a version number, followed by a text input field for a custom name. The first entry is 'CSW-13A-08', 'TSX-301C', 'V7.0SP0000' with the custom name 'CT01'. The second entry is 'csw-13a-07', 'TSX-301C', 'V7.0SP0000' with the custom name 'CT02'. At the bottom right, there are two buttons: 'Save' and 'Close'.

When [Save] is clicked, the names of the X-ray CT systems (host names) displayed in the request list window and history window are changed to the names registered in the Equipment Setting dialog.

Version	Date	Scanner	User
1.0	2015 May 27 10:10	CT01	CSW-13A-08
1.0	2015 May 27 10:12	CT01	CSW-13A-08
1.0	2015 May 27 10:13	CT01	CSW-13A-08
1.0	2015 May 27 10:14	CT01	CSW-13A-08

## (2) Backup Protocols dialog

This dialog is used to back up the CT protocols currently saved in the specified local folder.

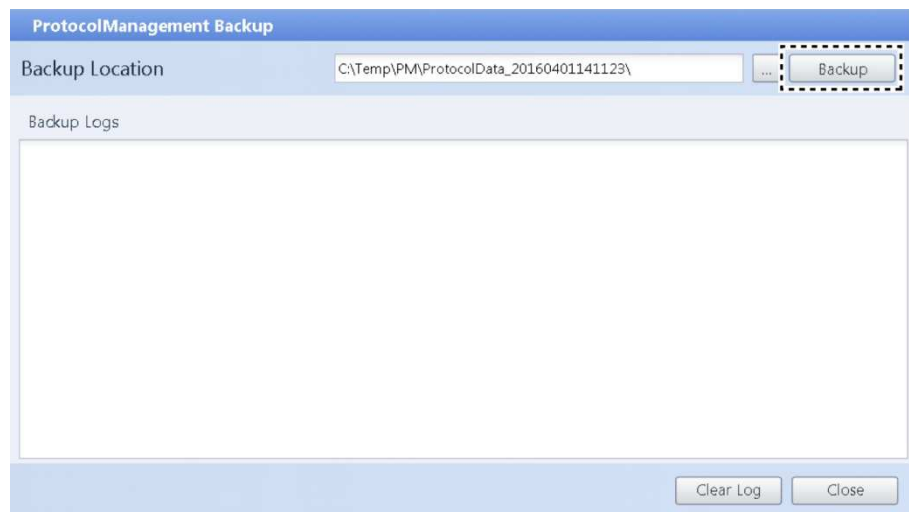
When the menu at the upper right of the request list window or history window is displayed, the Backup Protocols menu item can be selected.

**NOTE:** The Backup Protocols function can be set to ON/OFF when this application is installed. The default setting is OFF. To set the Backup Protocols function to ON, contact your service representative. If this application is installed in the Vitrea Enterprise environment, the Backup Protocols function cannot be used.



When the [Backup Protocols] menu item is selected, the ProtocolManagement Backup dialog is displayed. Click [...] to select the local folder to be backed up and then click [Backup] to back up the CT protocols in the selected folder.

**NOTE:** To restore the CT protocols that were backed up, the dedicated service tool is required. If it is necessary to restore the CT protocols, contact your Toshiba service representative.





# TOSHIBA



LEGAL MANUFACTURER

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