

# 2 Networking

## 2.1 Implementation Model

The ECHOLOGIC ELS-200 System Modality exposes a single Application Entity (“Device AE”) that:

- Queries a Modality Worklist (SCU) using C-FIND to a configured Worklist SCP
- Verifies remote notes (SCU) using C-ECHO
- Stores instances (SCU) using C-STORE to a Storage SCP; this release stores Ultrasound Image and Ultrasound Multi-frame Image objects

See Figure 2-1 for the Application Data Flow Diagram:

### 2.1.1 Application Data Flow

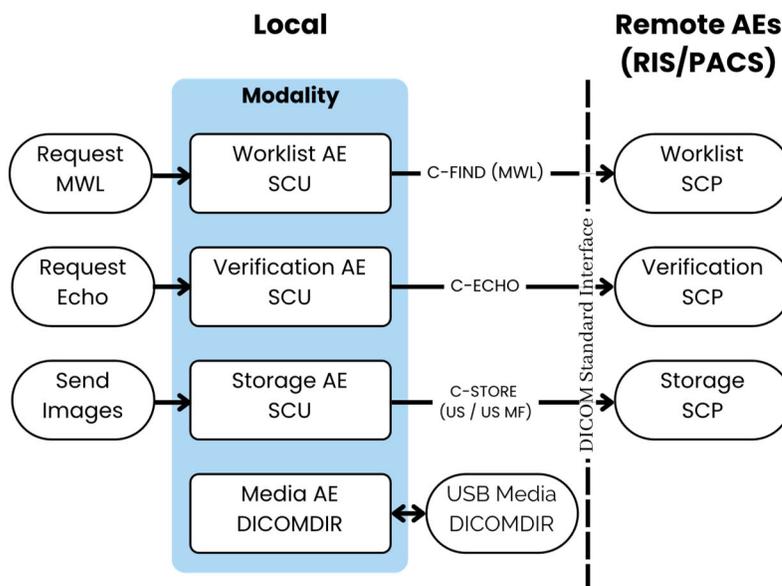


Figure 2-1: Application Data Flow Diagram

## 2.2 AE Specifications

### 2.2.1 AE Identification

Table 2-1: AE Identification

Field	Value
Application Entity (AE) Name	Acme Ultrasound
AE Title (Default)	ServerAE
AE Title (User-Configurable)	Yes
Network Roles	SCU Only (C-FIND, C-ECHO, C-STORE)
Implementation Class UID	Applied for
Implementation Version Name	ECHOLG_ELS_1.2.3

## 2.2.2

### Supported SOP Classes and Roles

Table 2-2: Supported SOP Classes and Roles

SOP Class	UID	SCU (Yes/No)	SCP (Yes/No)
Verification SOP Class	1.2.840.10008.1.1	Yes	No
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6.1	Yes	No
Ultrasound Multi-frame Image Storage	1.2.840.10008.5.1.4.1.1.3.1	Yes	No
Modality Worklist - FIND	1.2.840.10008.5.1.4.31	Yes	No

## 2.2.3 Proposed Presentation Contexts

Table 2-3: Proposed Presentation Contexts

Abstract Syntax	UID	Supported Transfer Syntax	UID	Role
Verification SOP Class	1.2.840.10008.1.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU
Modality Worklist – FIND	1.2.840.10008.5.1.4.31	Implicit VR Little Endian	1.2.840.10008.1.2	SCU
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6.1	Implicit VR Little Endian Explicit VR Little Endian Explicit VR Big Endian	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.2	SCU
Ultrasound Multi-frame Image Storage	1.2.840.10008.5.1.4.1.1.3.1	Implicit VR Little Endian Explicit VR Little Endian Explicit VR Big Endian	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.2	SCU

## 2.2.4 Association Limits & Behavior

For convenience, key association parameters are summarized below. See Section 2.3 for detailed association policy descriptions.

Table 2-4: Association Limits & Behavior (Quick Reference)

Item	Value
Max simultaneous associations	1
Asynchronous operations	No (synchronous only)
Association open/close policy	Open when service requested; release when complete
Max PDU Length	16,384 bytes
DIMSE response timeout	30s
Association request timeout	30s

## 2.3 Association Policies

The following policies apply to all DICOM associations initiated by the ECHOLOGIC ELS-200.

### 2.3.1 General