Acceptance Testing

Overview

🔧 **Fix Me!** Details here on WHAT will be done

The Testing Process

🔧 **Fix Me!** Details here on HOW to run the testing

Test Data

🔧 **Fix Me!** Explain how to get the data to run these tests and how to process the data to show corrections

Verifying Data Transfer Accuracy

The user shall verify the accuracy and completeness of data transferred between the eRT software and external systems prior to clinical use. This procedure confirms correct configuration of data exchange interfaces and helps ensure treatment information integrity.

Scope

This verification applies to all supported data exchange interfaces, including but not limited to:

- DICOM image import
- structure set import/export
- treatment plan data transfer
- dose data transfer

Verification Procedure

1. Import representative datasets from each connected external system, that include a CT image set with corresponding structure set

2. Confirm the following after import:
    1. patient identifiers match the source system
    2. image orientation and spatial alignment are correct
    3. structure geometry and labeling are preserved
    4. referenced coordinate systems are consistent
3. Export data generated by the eRT software to the receiving system
4. Verify in the receiving system that:
    1. geometry and positioning remain unchanged
    2. dose distributions align with source images
    3. plan parameters are transferred without unintended modification

Recommended Checks

Verification should include (at a minimum):

- visual overlay comparison
- coordinate consistency checks
- confirmation of Frame of Reference alignment
- verification of referenced object relationships

Acceptance & Documentation

Acceptance criteria shall be defined by the clinical institution based on applicable professional guidelines and institutional procedures.

The user shall document successful verification for each connected system prior to clinical deployment.

Reverification

Data transfer verification should be repeated following:

- Software upgrades affecting interoperability
- configuration changes
- addition or replacement of connected systems

Acceptance Testing Sign-Off

After completion of acceptance testing, the Qualified Medical Physicist will sign off on the

Acceptance Test Form

indicating that this step has been satisfactorily completed.

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