

The logo for United Medical Maintenance Services (UMMS) is located in the top left corner of a blue vertical bar. It features the letters "UMMS" in a white, sans-serif font, with a white swoosh underline that starts under the "U" and ends under the "S". A small white starburst is positioned above the "U".

United Medical Maintenance Services

Engineering Publications

DVT Testing of DICOM 3 Print

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DVT Testing of DICOM Print

I come across several cases of interfacing CT / MRI/ Nuclear Medicine system to laser cameras using DICOM print. While some are easy, others will require hours to resolve. The DVT program helps break down which system is at fault.

- The modality or
- The laser camera / print server

To emulate a system using the DVT tools there are several variables that need be placed in the configuration file of the DVT program.

- The Hosts Name configured in the camera
- The Hosts port number
- The Host IP address (which is configured in Windows Network file under TCP/IP)
- The Laser camera or print servers IP address
- The Laser camera or print servers Application entity title.
- The Laser camera or print servers listening port.

Once all of the variables are configured and after you run the program the results should match as below. This verbiage is an actual unit that test correct where there are no problems printing to the laser camera. Use this as a reference guide.

NOTE !

Under the results section of the file it will indicated RESULTS:FAILED Validation errors 1. This is normal error under this script file.

Print out of the details of the DVT program.

```
## SCU Print DICOMScript: 2.ds
##
## Pre-conditions:
## - no association
##
## Test Scenario:
## - send association for Basic Grayscale Print Management Meta
## Service Class
## - big endian explicit VR
## - little endian explicit VR
## - little endian implicit VR
## - expect association - Result/Reason = 0 - acceptance
## - big endian explicit VR
## - send N-GET-RQ Printer
## - expect N-GET-RSP - STATUS = 0000 - SUCCESS
## - send N-CREATE-RQ Basic Film Session
## - expect N-CREATE-RSP - STATUS = 0000 - SUCCESS
## - send N-CREATE-RQ Basic Film Box
## - expect N-CREATE-RSP - STATUS = 0000 - SUCCESS
```

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```
## - send N-SET-RQ Basic Image Box
## - expect N-SET-RSP - STATUS = 0000 - SUCCESS
## - send N-SET-RQ Basic Image Box
## - expect N-SET-RSP - STATUS = 0000 - SUCCESS
## - send N-ACTION-RQ Basic Film Box
## - expect N-ACTION-RSP - STATUS = 0000 - SUCCESS
## - send N-DELETE-RQ Basic Film Session
## - expect N-DELETE-RSP - STATUS = 0000 - SUCCESS
## - send release association request
## - expect release association response
##
## Expected Result:
## - SCP signals successful print
##
## Post-conditions:
## - no association - film being printed
##
TCP/IP - Connecting to remote host "192.168.1.6" using unsecure port number 7000 ...
SEND ASSOCIATE-RQ (10:54:37)
```

```
Send: A_ASSOCIATE_RQ Message
Protocol Version: 1
Called AE Title: PLNK_IN1
Calling AE Title: UMMSLT
Application Context: 1.2.840.10008.3.1.1.1
Presentation Context Item(s):
Presentation Context ID: ID: 1
  > Abstract Syntax: 1.2.840.10008.5.1.1.9
  > Transfer Syntax: 1.2.840.10008.1.2.2
  > Transfer Syntax: 1.2.840.10008.1.2.1
  > Transfer Syntax: 1.2.840.10008.1.2
User Information:
  > Maximum Length: 16384
  > Implementation Class UID: 100.118.116.2005.2.1
  > Implementation Version Name: dvt2.1
```

RECEIVE ASSOCIATE-AC (10:54:37)

```
Received: A_ASSOCIATE_AC Message
Protocol Version: 1
Called AE Title: PLNK_IN1
Calling AE Title: UMMSLT
Application Context: 1.2.840.10008.3.1.1.1
Presentation Context Item(s):
Presentation Context ID: ID: 1
  > Result: 0
  > Abstract Syntax: 1.2.840.10008.5.1.1.9
  > Transfer Syntax: 1.2.840.10008.1.2
User Information:
  > Maximum Length: 65535
  > Implementation Class UID: 1.2.392.200036.9107.500.510
  > Implementation Version Name: KC_PLNK2_1.00R06
```

```
VALIDATE ASSOCIATE-AC
Validate: A_ASSOCIATE_AC Message
Protocol Version: 1
```

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Called AE Title: PLNK_IN1
 Calling AE Title: UMMSLT
 Application Context: 1.2.840.10008.3.1.1.1
 Presentation Context Item(s):
 Presentation Context: ID: 1
 > Result: 0(acceptance)
 > Abstract Syntax: 1.2.840.10008.5.1.1.9(Basic Grayscale Print Management Meta SOP Class)
 > Transfer Syntax: 1.2.840.10008.1.2 (Implicit VR Little Endian)
 Error: Value of "1.2.840.10008.1.2" different from reference/session property value of "1.2.840.10008.1.2.2"

NOTE !**(Normal Error occurrence in script)**

Link to Summary Result

User Information:

- > Maximum Length: 65535
- > Implementation Class UID: 1.2.392.200036.9107.500.510
- > Implementation Version Name: KC_PLNK2_1.00R06

SEND N-GET-RQ (10:54:38)

Send:

N-GET-RQ

(0x00000000,UL,0x00000086) # Group 0000 Length
 (0x00000003,UI,"1.2.840.10008.5.1.1.16") # Requested SOP Class UID
 (0x00000100,US,0x0110) # Command Field
 (0x00000110,US,0x0001) # Message ID
 (0x00000800,US,0x0101) # Data Set Type
 (0x00001001,UI,"1.2.840.10008.5.1.1.17") # Requested SOP Instance UID
 (0x00001005,AT,0x00080070,0x00081090,0x00181000,0x00181020,0x00181200,0x00181201,0x21100010,0x21100020,0x21100030) # Attribute Identifier List

RECEIVE N-GET-RSP Printer (10:54:38)

Maximum length of Command DATA-TF PDU received (with pcId 1) is 0x76=118

Maximum length of Dataset DATA-TF PDU received (with pcId 1) is 0x7A=122

Media file C:\Program Files\DVT\example\scripts\print\scu\results\1100001.dcm created, click to open DCM file in viewer.

Received:

N-GET-RSP

(0x00000000,UL,0x00000064) # Group 0000 Length
 (0x00000002,UI,"1.2.840.10008.5.1.1.16") # Affected SOP Class UID
 (0x00000100,US,0x8110) # Command Field
 (0x00000120,US,0x0001) # Message ID Being Responded To
 (0x00000800,US,0x0001) # Data Set Type
 (0x00000900,US,0x0000) # Status
 (0x00001000,UI,"1.2.840.10008.5.1.1.17") # Affected SOP Instance UID

Printer

(0x00080070,LO,"KONICA") # Manufacturer
 (0x00081090,LO,"Printlink2") # Manufacturer's Model Name
 (0x00181000,LO,"16") # Device Serial Number
 (0x00181020,LO,"1.00R06 ") # Software Version(s)

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(0x00181200,DA,"") # Date of Last Calibration
 (0x00181201,TM,"") # Time of Last Calibration
 (0x21100010,CS,"NORMAL") # Printer Status
 (0x21100020,CS,"NORMAL") # Printer Status Info
 (0x21100030,LO,"DRYPRO") # Printer Name

VALIDATE N-GET-RSP Printer
 N-GET-RSP

Module: N-GET-RSP (M)

Attribute VR Type Pr Len Attribute Name Value(s) and Comments
 (0000,0000) UL 1 + 4 Group 0000 Length 0x00000064=100
 (0000,0002) UI 3 + 22 Affected SOP Class UID 1.2.840.10008.5.1.1.16
 (0000,0100) US 1 + 2 Command Field 0x8110=33040
 (0000,0120) US 1 + 2 Message ID Being Responded To 0x0001=1
 (0000,0800) US 1 + 2 Data Set Type 0x0001=1
 (0000,0900) US 1 + 2 Status 0x0000=0
 (0000,1000) UI 3 + 22 Affected SOP Instance UID 1.2.840.10008.5.1.1.17

Printer

Module: Printer Module (M)

Attribute VR Type Pr Len Attribute Name Value(s) and Comments
 (0008,0070) LO 3C + 6 Manufacturer KONICA
 INFO - Text Condition - "Present if the attribute is requested"
 (0008,1090) LO 3C + 10 Manufacturer's Model Name Printlink2
 INFO - Text Condition - "Present if the attribute is requested"
 (0018,1000) LO 3C + 2 Device Serial Number 16
 INFO - Text Condition - "Present if the attribute is requested"
 (0018,1020) LO 3C + 8 Software Version(s) 1.00R06
 INFO - Text Condition - "Present if the attribute is requested"
 (0018,1200) DA 3C + 0 Date of Last Calibration
 INFO - Text Condition - "Present if the attribute is requested"
 (0018,1201) TM 3C + 0 Time of Last Calibration
 INFO - Text Condition - "Present if the attribute is requested"
 (2110,0010) CS 1C + 6 Printer Status NORMAL
 INFO - Text Condition - "Present if the attribute is requested"
 (2110,0020) CS 1C + 6 Printer Status Info NORMAL
 INFO - Text Condition - "Present if the attribute is requested"
 (2110,0030) LO 3C + 6 Printer Name DRYPRO
 INFO - Text Condition - "Present if the attribute is requested"

Validate: Selected Dataset definition: "Printer". Using AE Name "DICOM" - AE Version "3.0"
 SEND N-CREATE-RQ Basic Film Session (10:54:38)
 Automatic Type 2 Attribute population from Definition applied to: Basic Film Session

Send:

N-CREATE-RQ
 (0x00000000,UL,0x00000050) # Group 0000 Length
 (0x00000002,UI,"1.2.840.10008.5.1.1.1") # Affected SOP Class UID
 (0x00000100,US,0x0140) # Command Field
 (0x00000110,US,0x0002) # Message ID
 (0x00000800,US,0x0000) # Data Set Type
 (0x00001000,UI,"1.2.3.4.5.6") # Affected SOP Instance UID

Basic Film Session

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(0x20000010,IS,"1") # Number of Copies
 (0x20000020,CS,"LOW") # Print Priority
 (0x20000030,CS,"BLUE FILM") # Medium Type
 (0x20000040,CS,"PROCESSOR") # Film Destination

RECEIVE N-CREATE-RSP (10:54:38)

Maximum length of Command DATA-TF PDU received (with pCId 1) is 0x6C=108

Received:

N-CREATE-RSP

(0x00000000,UL,0x0000005A) # Group 0000 Length
 (0x00000002,UI,"1.2.840.10008.5.1.1.1") # Affected SOP Class UID
 (0x00000100,US,0x8140) # Command Field
 (0x00000120,US,0x0002) # Message ID Being Responded To
 (0x00000800,US,0x0101) # Data Set Type
 (0x00000900,US,0x0000) # Status
 (0x00001000,UI,"1.2.3.4.5.6") # Affected SOP Instance UID

VALIDATE N-CREATE-RSP

N-CREATE-RSP

Module: N-CREATE-RSP (M)

Attribute VR Type Pr Len Attribute Name Value(s) and Comments

(0000,0000) UL 1 + 4 Group 0000 Length 0x0000005A=90
 (0000,0002) UI 3 + 22 Affected SOP Class UID 1.2.840.10008.5.1.1.1
 (0000,0100) US 1 + 2 Command Field 0x8140=33088
 (0000,0120) US 1 + 2 Message ID Being Responded To 0x0002=2
 (0000,0800) US 1 + 2 Data Set Type 0x0101=257
 (0000,0900) US 1 + 2 Status 0x0000=0
 (0000,1000) UI 3 + 12 Affected SOP Instance UID 1.2.3.4.5.6

SEND N-CREATE-RQ Basic Film Box (10:54:38)

Automatic Type 2 Attribute population from Definition applied to: Basic Film Box

Send:

N-CREATE-RQ

(0x00000000,UL,0x00000052) # Group 0000 Length
 (0x00000002,UI,"1.2.840.10008.5.1.1.2") # Affected SOP Class UID
 (0x00000100,US,0x0140) # Command Field
 (0x00000110,US,0x0003) # Message ID
 (0x00000800,US,0x0000) # Data Set Type
 (0x00001000,UI,"1.2.3.4.5.6.1") # Affected SOP Instance UID

Basic Film Box

(0x20100010,ST,"STANDARD\1,2") # Image Display Format
 (0x20100040,CS,"PORTRAIT") # Film Orientation
 (0x20100050,CS,"8INX10IN") # Film Size ID
 (0x20100060,CS,"CUBIC") # Magnification Type
 (0x20100100,CS,"BLACK") # Border Density
 (0x20100110,CS,"BLACK") # Empty Image Density
 (0x20100120,US,0x000A) # Min Density
 (0x20100130,US,0x015E) # Max Density
 (0x20100140,CS,"NO") # Trim
 (0x20100500,SQ,
 >(0x00081150,UI,"1.2.840.10008.5.1.1.1") # Referenced SOP Class UID
 >(0x00081155,UI,"1.2.3.4.5.6") # Referenced SOP Instance UID

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) # Referenced Film Session Sequence

RECEIVE N-CREATE-RSP Basic Film Box (10:54:38)

Maximum length of Command DATA-TF PDU received (with pCId 1) is 0x6E=110

Maximum length of Dataset DATA-TF PDU received (with pCId 1) is 0xF2=242

Media file C:\Program Files\DVT\example\scripts\print\scu\results\1100002.dcm created, click to open DCM file in viewer.

Received:

N-CREATE-RSP

(0x00000000,UL,0x0000005C) # Group 0000 Length

(0x00000002,UI,"1.2.840.10008.5.1.1.2") # Affected SOP Class UID

(0x00000100,US,0x8140) # Command Field

(0x00000120,US,0x0003) # Message ID Being Responded To

(0x00000800,US,0x0001) # Data Set Type

(0x00000900,US,0x0000) # Status

(0x00001000,UI,"1.2.3.4.5.6.1") # Affected SOP Instance UID

Basic Film Box

(0x20100510,SQ,

>(0x00081150,UI,"1.2.840.10008.5.1.1.4") # Referenced SOP Class UID

>(0x00081155,UI,"1.2.392.200036.9107.510.16.20070209.110133.200400000344") # Referenced SOP Instance UID

>(0x00081150,UI,"1.2.840.10008.5.1.1.4") # Referenced SOP Class UID

>(0x00081155,UI,"1.2.392.200036.9107.510.16.20070209.110133.200400000345") # Referenced SOP Instance UID

) # Referenced Image Box Sequence

VALIDATE N-CREATE-RSP Basic Film Box

Against reference Dataset: Basic Film Box

N-CREATE-RSP

Module: N-CREATE-RSP (M)

Attribute VR Type Pr Len Attribute Name Value(s) and Comments

(0000,0000) UL 1 + 4 Group 0000 Length 0x0000005C=92

(0000,0002) UI 3 + 22 Affected SOP Class UID 1.2.840.10008.5.1.1.2

(0000,0100) US 1 + 2 Command Field 0x8140=33088

(0000,0120) US 1 + 2 Message ID Being Responded To 0x0003=3

(0000,0800) US 1 + 2 Data Set Type 0x0001=1

(0000,0900) US 1 + 2 Status 0x0000=0

(0000,1000) UI 3 + 14 Affected SOP Instance UID 1.2.3.4.5.6.1

Basic Film Box

Module: Basic Film Box Presentation Module (M)

Attribute VR Type Pr Len Attribute Name Value(s) and Comments

(2010,0010) ST 3C - 0 Image Display Format

INFO - Text Condition - "Present if attribute is requested"

(2010,0030) CS 3C - 0 Annotation Display Format ID

INFO - Text Condition - "Present if attribute is requested"

(2010,0040) CS 3C - 0 Film Orientation

INFO - Text Condition - "Present if attribute is requested"

(2010,0050) CS 3C - 0 Film Size ID

INFO - Text Condition - "Present if attribute is requested"

(2010,0060) CS 3C - 0 Magnification Type

INFO - Text Condition - "Present if attribute is requested"

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(2010,0080) CS 3C - 0 Smoothing Type
 INFO - Text Condition - "Present if attribute is requested"
 (2010,0100) CS 3C - 0 Border Density
 INFO - Text Condition - "Present if attribute is requested"
 (2010,0110) CS 3C - 0 Empty Image Density
 INFO - Text Condition - "Present if attribute is requested"
 (2010,0120) US 3C - 0 Min Density
 INFO - Text Condition - "Present if attribute is requested"
 (2010,0130) US 3C - 0 Max Density
 INFO - Text Condition - "Present if attribute is requested"
 (2010,0140) CS 3C - 0 Trim
 INFO - Text Condition - "Present if attribute is requested"
 (2010,0150) ST 3C - 0 Configuration Information
 INFO - Text Condition - "Present if attribute is requested"
 (2010,015E) US 3C - 0 Illumination
 INFO - Text Condition - "Present if attribute is requested"
 (2010,0160) US 3C - 0 Reflected Ambient Light
 INFO - Text Condition - "Present if attribute is requested"
 (2020,0050) CS 3C - 0 Requested Resolution ID
 INFO - Text Condition - "Present if attribute is requested"

Module: Basic Film Box Relationship Module (M)

Attribute VR Type Pr Len Attribute Name Value(s) and Comments

(2010,0500) SQ 3C - 0 Referenced Film Session Sequence
 INFO - Text Condition - "Present if attribute is requested"
 (2010,0510) SQ 3C + UNDEFINED Referenced Image Box Sequence
 >(0008,1150) UI 3C + 22 Referenced SOP Class UID 1.2.840.10008.5.1.1.4
 INFO - Text Condition - "Present if attribute is requested"
 >(0008,1155) UI 3C + 56 Referenced SOP Instance UID 1.2.392.200036.9107.510.16.20070209.110133.200400000344
 INFO - Text Condition - "Present if attribute is requested"
 next Item
 >(0008,1150) UI 3C + 22 Referenced SOP Class UID 1.2.840.10008.5.1.1.4
 INFO - Text Condition - "Present if attribute is requested"
 >(0008,1155) UI 3C + 56 Referenced SOP Instance UID 1.2.392.200036.9107.510.16.20070209.110133.200400000345
 INFO - Text Condition - "Present if attribute is requested"
 INFO - Text Condition - "Present if attribute is requested"
 (2010,0520) SQ 3C - 0 Referenced Basic Annotation Box Sequence
 INFO - Text Condition - "Present if attribute is requested"
 (2050,0500) SQ 3C - 0 Referenced Presentation LUT Sequence
 INFO - Text Condition - "Present if attribute is requested"

Validate: Selected Dataset definition: "Basic Film Box". Using AE Name "DICOM" - AE Version "3.0"

SEND N-SET-RQ Basic Grayscale Image Box (10:54:39)

Automatic Type 2 Attribute population from Definition applied to: Basic Grayscale Image Box

Send:

N-SET-RQ

(0x00000000,UL,0x0000007C) # Group 0000 Length
 (0x00000003,UI,"1.2.840.10008.5.1.1.4") # Requested SOP Class UID
 (0x00000100,US,0x0120) # Command Field
 (0x00000110,US,0x0004) # Message ID
 (0x00000800,US,0x0000) # Data Set Type
 (0x00001001,UI,"1.2.392.200036.9107.510.16.20070209.110133.200400000344") # Requested SOP Instance UID

Basic Grayscale Image Box

(0x20100060,CS,"REPLICATE") # Magnification Type

(0x20200010,US,0x0001) # Image Position

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```

(0x20200020,CS,"NORMAL") # Polarity
(0x20200110,SQ,
  >(0x00280002,US,0x0001) # Samples per Pixel
  >(0x00280004,CS,"MONOCHROME1") # Photometric Interpretation
  >(0x00280010,US,0x0200) # Rows
  >(0x00280011,US,0x0200) # Columns
  >(0x00280100,US,0x0008) # Bits Allocated
  >(0x00280101,US,0x0008) # Bits Stored
  >(0x00280102,US,0x0007) # High Bit
  >(0x00280103,US,0x0000) # Pixel Representation
  >(0x7FE00010,OB,"") # Pixel Data
) # Basic Grayscale Image Sequence

```

RECEIVE N-SET-RSP (10:54:39)

Maximum length of Command DATA-TF PDU received (with pCld 1) is 0x98=152

Received:

N-SET-RSP

```

(0x00000000,UL,0x00000086) # Group 0000 Length
(0x00000002,UI,"1.2.840.10008.5.1.1.4") # Affected SOP Class UID
(0x00000100,US,0x8120) # Command Field
(0x00000120,US,0x0004) # Message ID Being Responded To
(0x00000800,US,0x0101) # Data Set Type
(0x00000900,US,0x0000) # Status
(0x00001000,UI,"1.2.392.200036.9107.510.16.20070209.110133.200400000344") # Affected SOP Instance UID

```

VALIDATE N-SET-RSP

N-SET-RSP

Module: N-SET-RSP (M)

Attribute VR Type Pr Len Attribute Name Value(s) and Comments

```

(0000,0000) UL 1 + 4 Group 0000 Length 0x00000086=134
(0000,0002) UI 1 + 22 Affected SOP Class UID 1.2.840.10008.5.1.1.4
(0000,0100) US 1 + 2 Command Field 0x8120=33056
(0000,0120) US 1 + 2 Message ID Being Responded To 0x0004=4
(0000,0800) US 1 + 2 Data Set Type 0x0101=257
(0000,0900) US 1 + 2 Status 0x0000=0
(0000,1000) UI 3 + 56 Affected SOP Instance UID 1.2.392.200036.9107.510.16.20070209.110133.200400000344

```

SEND N-SET-RQ Basic Grayscale Image Box (10:54:39)

Automatic Type 2 Attribute population from Definition applied to: Basic Grayscale Image Box

Send:

N-SET-RQ

```

(0x00000000,UL,0x0000007C) # Group 0000 Length
(0x00000003,UI,"1.2.840.10008.5.1.1.4") # Requested SOP Class UID
(0x00000100,US,0x0120) # Command Field
(0x00000110,US,0x0005) # Message ID
(0x00000800,US,0x0000) # Data Set Type
(0x00001001,UI,"1.2.392.200036.9107.510.16.20070209.110133.200400000345") # Requested SOP Instance UID

```

Basic Grayscale Image Box

```

(0x20100060,CS,"REPLICATE") # Magnification Type
(0x20200010,US,0x0002) # Image Position
(0x20200020,CS,"NORMAL") # Polarity
(0x20200110,SQ,

```

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```

>(0x00280002,US,0x0001) # Samples per Pixel
>(0x00280004,CS,"MONOCHROME1") # Photometric Interpretation
>(0x00280010,US,0x0200) # Rows
>(0x00280011,US,0x0200) # Columns
>(0x00280100,US,0x0008) # Bits Allocated
>(0x00280101,US,0x0008) # Bits Stored
>(0x00280102,US,0x0007) # High Bit
>(0x00280103,US,0x0000) # Pixel Representation
>(0x7FE00010,OB,"") # Pixel Data
) # Basic Grayscale Image Sequence

```

RECEIVE N-SET-RSP (10:54:39)

Maximum length of Command DATA-TF PDU received (with pcId 1) is 0x98=152

Received:

N-SET-RSP

```

(0x00000000,UL,0x00000086) # Group 0000 Length
(0x00000002,UI,"1.2.840.10008.5.1.1.4") # Affected SOP Class UID
(0x00000100,US,0x8120) # Command Field
(0x00000120,US,0x0005) # Message ID Being Responded To
(0x00000800,US,0x0101) # Data Set Type
(0x00000900,US,0x0000) # Status
(0x00001000,UI,"1.2.392.200036.9107.510.16.20070209.110133.200400000345") # Affected SOP Instance UID

```

VALIDATE N-SET-RSP

N-SET-RSP

Module: N-SET-RSP (M)

Attribute VR Type Pr Len Attribute Name Value(s) and Comments

```

(0000,0000) UL 1 + 4 Group 0000 Length 0x00000086=134
(0000,0002) UI 1 + 22 Affected SOP Class UID 1.2.840.10008.5.1.1.4
(0000,0100) US 1 + 2 Command Field 0x8120=33056
(0000,0120) US 1 + 2 Message ID Being Responded To 0x0005=5
(0000,0800) US 1 + 2 Data Set Type 0x0101=257
(0000,0900) US 1 + 2 Status 0x0000=0
(0000,1000) UI 3 + 56 Affected SOP Instance UID 1.2.392.200036.9107.510.16.20070209.110133.200400000345

```

SEND N-ACTION-RQ (10:54:39)

Send:

N-ACTION-RQ

```

(0x00000000,UL,0x0000005C) # Group 0000 Length
(0x00000003,UI,"1.2.840.10008.5.1.1.2") # Requested SOP Class UID
(0x00000100,US,0x0130) # Command Field
(0x00000110,US,0x0006) # Message ID
(0x00000800,US,0x0101) # Data Set Type
(0x00001001,UI,"1.2.3.4.5.6.1") # Requested SOP Instance UID
(0x00001008,US,0x0001) # Action Type ID

```

RECEIVE N-ACTION-RSP (10:54:39)

Maximum length of Command DATA-TF PDU received (with pcId 1) is 0x78=120

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Received:

N-ACTION-RSP
 (0x00000000,UL,0x00000066) # Group 0000 Length
 (0x00000002,UI,"1.2.840.10008.5.1.1.2") # Affected SOP Class UID
 (0x00000100,US,0x8130) # Command Field
 (0x00000120,US,0x0006) # Message ID Being Responded To
 (0x00000800,US,0x0101) # Data Set Type
 (0x00000900,US,0x0000) # Status
 (0x00001000,UI,"1.2.3.4.5.6.1") # Affected SOP Instance UID
 (0x00001008,US,0x0001) # Action Type ID

VALIDATE N-ACTION-RSP
 N-ACTION-RSP

Module: N-ACTION-RSP (M)

Attribute VR Type Pr Len Attribute Name Value(s) and Comments
 (0000,0000) UL 1 + 4 Group 0000 Length 0x00000066=102
 (0000,0002) UI 1 + 22 Affected SOP Class UID 1.2.840.10008.5.1.1.2
 (0000,0100) US 1 + 2 Command Field 0x8130=33072
 (0000,0120) US 1 + 2 Message ID Being Responded To 0x0006=6
 (0000,0800) US 1 + 2 Data Set Type 0x0101=257
 (0000,0900) US 1 + 2 Status 0x0000=0
 (0000,1000) UI 3 + 14 Affected SOP Instance UID 1.2.3.4.5.6.1
 (0000,1008) US 3 + 2 Action Type ID 0x0001=1

SEND N-DELETE-RQ (10:54:40)

Send:

N-DELETE-RQ
 (0x00000000,UL,0x00000052) # Group 0000 Length
 (0x00000003,UI,"1.2.840.10008.5.1.1.2") # Requested SOP Class UID
 (0x00000100,US,0x0150) # Command Field
 (0x00000110,US,0x0007) # Message ID
 (0x00000800,US,0x0101) # Data Set Type
 (0x00001001,UI,"1.2.3.4.5.6.1") # Requested SOP Instance UID

RECEIVE N-DELETE-RSP (10:54:40)

Maximum length of Command DATA-TF PDU received (with pCId 1) is 0x6E=110

Received:

N-DELETE-RSP
 (0x00000000,UL,0x0000005C) # Group 0000 Length
 (0x00000002,UI,"1.2.840.10008.5.1.1.2") # Affected SOP Class UID
 (0x00000100,US,0x8150) # Command Field
 (0x00000120,US,0x0007) # Message ID Being Responded To
 (0x00000800,US,0x0101) # Data Set Type
 (0x00000900,US,0x0000) # Status
 (0x00001000,UI,"1.2.3.4.5.6.1") # Affected SOP Instance UID

VALIDATE N-DELETE-RSP
 N-DELETE-RSP

Module: N-DELETE-RSP (M)

Attribute VR Type Pr Len Attribute Name Value(s) and Comments
 (0000,0000) UL 1 + 4 Group 0000 Length 0x0000005C=92

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(0000,0002) UI 1 + 22 Affected SOP Class UID 1.2.840.10008.5.1.1.2
(0000,0100) US 1 + 2 Command Field 0x8150=33104
(0000,0120) US 1 + 2 Message ID Being Responded To 0x0007=7
(0000,0800) US 1 + 2 Data Set Type 0x0101=257
(0000,0900) US 1 + 2 Status 0x0000=0
(0000,1000) UI 3 + 14 Affected SOP Instance UID 1.2.3.4.5.6.1

SEND RELEASE-RQ (10:54:40)

Send: A-RELEASE-RQ Message

RECEIVE RELEASE-RP (10:54:40)

Association open 3.25 seconds

Received: A-RELEASE-RP Message

VALIDATE RELEASE-RP

A-RELEASE-RP Message

RESULT: FAILED

Number of Validation Errors: 1 - Number of Validation Warnings: 0

Number of User Validation Errors: 0 - Number of User Validation Warnings: 0

Number of General Errors: 0 - Number of General Warnings: 0

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