DICOM Change Proposal

STATUS	Final Text
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Change Number CP-2500
Log Summary: Correct inconsistent Final State Requirement
Name of Standard PS3.4
Rationale for Change: The note in PS3.4, Section CC.2.5.1.3.2 says that the Unified Procedure Step Performed Procedure Sequence has a Final State requirement of X, while Table CC.2.5-3 preceding this note shows a Final State requirement of P for this attribute. The note is wrong in its conclusion.
Change Wording:

Applicable text from the Table and Section highlighted below

CC.2.5.1.1 UPS Final State Requirements

COMPLETED and CANCELED are Final States for a UPS instance. The Attributes and values of the UPS instance must meet certain requirements before it may be placed in either of the Final States.

Note

A UPS instance is in the SCHEDULED state when created. See Section CC.1.1 for rules governing state transitions.

Attributes shall be valued as indicated by the Final State Codes in the Final State Column of Table CC.2.5-3 before the Procedure Step State (0074,1000) may be set to COMPLETED or CANCELED (i.e., Final State).

Performing systems are encouraged to ensure that the values for all Attributes reasonably reflect what was done and the Final State of the UPS. This may include blanking Attributes that are permitted to be empty and for which no reasonable value can be determined. The UPS contents should make it clear whether the step was completed, what work was done, what results were produced and whether the results are usable. See Section GGG.3.1 “What Was Scheduled Vs. What Was Performed” in PS3.17 for a discussion of methods to convey things like partial completion.

Note

The SCU may choose not to distribute, or otherwise make available, some or all instances created during the procedure step and referenced in the Output Information Sequence (0040,4033).

Table CC.2.5-1. Final State Codes

Final State Code	Meaning
R	The UPS State shall not be set to COMPLETED or CANCELED if this Attribute does not have a value.

Final State Code	Meaning
RC	The UPS State shall not be set to COMPLETED or CANCELED if the condition is met and this Attribute does not have a value.
P	The UPS State shall not be set to COMPLETED if this Attribute does not have a value, but may be set to CANCELED.
X	The UPS State shall not be set to CANCELED if this Attribute does not have a value, but may be set to COMPLETED.
O	The UPS State may be set to either COMPLETED or CANCELED if this Attribute does not have a value.

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CC.2.5.1.3 UPS Attribute Service Requirements

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Table CC.2.5-3. UPS SOP Class N-CREATE/N-SET/N-GET/C-FIND Attributes

Attribute Name	Tag	Usage N-CREATE (SCU/SCP)	Usage N-SET (SCU/SCP)	Final State	Usage N-GET (SCU/SCP)	Matching Key Type	Return Key Type	Remark/Matching Type
...								
Unified Procedure Step Performed Procedure Sequence	(0074,1216)	2/2 Shall be created empty	3/2	P	3/2	-	-	See CC.2.5.1.3.2.
…								

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CC.2.5.1.3.2 Unified Procedure Step Performed Procedure Sequence

The Attributes of the Unified Procedure Step Performed Procedure Sequence (0074,1216) shall only be retrieved with Sequence Matching.

~~**Note**~~

~~**Since this Attribute may be created empty and has a Final State requirement of X, a UPS in the SCHEDULED state may be canceled with two N-ACTION requests (IN PROGRESS then CANCELED) and no N-SET request.**~~