

**Kvarkki tekninen määrittely Liite 1**  
DICOM-validoinnin kansallisten lisätarkistuksien  
virhekoodit ja toipumisohjeet C-STORE:n yhteydessä

**Kvarkki technical specification Appendix 1**  
Kvarkki DICOM C-STORE custom error codes and recovery guide

**V1.21 Changes:** CFFB (only error code description specified, no new functionality implemented: CDA study document which contains the Study Instance UID must also be archived in the National Patient Archive before DICOM study can be archived)

**V1.2 Changes:** CFF9 (DICOM tag 0008,0030 StudyTime shall be given at least with an accuracy to the hour)

**V1.1 Changes:** CFFE (a short description of the study code is allowed in the tag 0008,1030), CFFD (modality check added: DICOM tag 0008,0061), CFF8 (a short description of the study code is allowed in the tag 0008,1030)

Service status	Further meaning	Error code	Error comment	Behavior and recovery
Error	Cannot understand	CFFF	Reserved for future use	
Error	Cannot understand	CFFE	Study description length error:	Do not resend as is. Check DICOM tag 0008,1030. The study description code must conform to the Finnish codesystem <a href="#">1.2.246.537.6.2.2007</a> Code has to exist in the codesystem and it has to be 5 characters long. The first 5 characters are validated and a short Study description is allowed after the code (e.g. 'AA1AA Head X-ray examination'). The faulty code is returned in the error comment.
Error	Cannot understand	CFFD	Mandatory parameter missing:	Do not resend as is. Either, Study Date, Study Time, Study Description, Patient ID or <b>modality is missing. The missing parameter is returned in the error comment.</b> Make sure that DICOM tags 0008,0020 & 0008,0030 & 0008,1030 & 0010,0020 & 0008,0061 are not missing or empty.
Error	Cannot understand	CFFC	Radiology CDA not found from Archive or it is not valid	Do not resend as is. Kvarkki has failed to find a valid Radiology CDA document from the national patient

				archive with the given Study Instance UID 0020,000D and Patient ID 0010,0020. Either the CDA document does not exist or the service event code stated in the CDA document does not point to a valid Service event CDA document. Valid radiology CDA and/or service event CDA document should be archived before retry.
Error	Cannot understand	CFFB	Service event not found	Do not resend as is. Service event was not found from the national patient archive with given parameters. Check patient id 0010,0020 and Study Instance UID 0020,000D and make sure that the service event CDA document and the CDA study document containing the Study Instance UID are archived.
Error	Cannot understand	CFFA	StudyDate error:	Do not resend as is. Check DICOM tag 0008,0020. Study date format requirement: <b>YYYYMMDD</b>
Error	Cannot understand	CFF9	StudyTime error:	Do not resend as is. Check DICOM tag 0008,0030. Study time format minimum requirement in Kvarkki: <b>HH</b> More accurate timestamp is also supported: <b>HHMMSS.FFFFFFFF</b>
Error	Cannot understand	CFF8	Invalid study description code:	Do not resend as is. Check DICOM tag 0008,1030. The study description code must conform to the Finnish codesystem <a href="#">1.2.246.537.6.2.2007</a> Code has to exist and be valid (not expired) in the codesystem. The first 5 characters are validated and a

				short Study description is allowed after the code (e.g. 'AA1AA Head X-ray examination'). The faulty code is returned in the error comment.
Refused	Out of Resources	A7FF	Error in Kvarkki system	Something has gone wrong inside the Kvarkki system. Retry is recommended. If the problem persists, Kvarkki support should be contacted at <a href="mailto:tekninentuki[at]kanta.fi">tekninentuki[at]kanta.fi</a> . Error details should be given to the Kvarkki support team such as time and date the error was noticed and other possible information about the incident (such as AE Title).