Conquest DICOM Server 1.4.17c CONFORMANCE STATEMENT and detailed software revision history

| Revision 1; 19961103 | As taken from the 'developers cut' distribution of MicroPACS |
|------------------------|--|
| Revision 2; 19980703 | Conquest additions; pre-release 1.3.1. |
| Revision 3; 19980713 | Conquest additions; release 1.3.1 |
| Revision 4; 19990415 | Updated (mainly for RT), release 1.3.2 |
| Revision 5; 19990527 | Small software updates, birthday, sex, bolus, release 1.3.3 |
| Revision 6; 20000131 | NKI sops updated, new compression mode, mirroring, release 1.3.4 |
| Revision 7; 20000316 | Added operation as NT service, pre-release 1.3.5 |
| Revision 8; 20000403 | Unlimited servers/services, auto-login, self-test, sop choices, fixes for GE Hi-Speed, improved display, fixed hang concurrent C-ECHO's, final release 1.3.5 |
| Revision 9; 20000701 | Improved browser menu, other ODBC drivers, release 1.3.6 |
| | Multithread UNC path fixes, edit ID, sendto, edit, release 1.3.7 |
| | Hostname fix, runs 4 services, show incoming, release 1.3.8 |
| | GUI additions database fixing; faster compression; fixed leaks, release 1.3.9 |
| Revision 13; 20011109 | better forward/export, extended DB/sop, zip, drag/drop, rel 1.3.10 |
| Revision 14; 20020508 | reliability and error handling fixes, UID configurable, dbrev 6 |
| Revision 15; 20020613 | StudyModality, db rev 7, find local missing pats, release 1.3.11 |
| Revision 16; 20020822 | FilenameSyntax for DICOM-Works; printing, release 1.3.12 |
| Revision 17; 20021215 | Various fixes. Non-ODBC driver; read-ahead thread; release 1.4.0 |
| Revision 18; 20030303 | Bug fix release 1.4.1 |
| Revision 19; 20030710 | Release 1.4.2, flexible compression and transfer fixes, db rev 11 |
| Revision 20; 20030922 | release 1.4.3, registry/administrator bug/doc; long filenames |
| Revision 21; 20040406 | Release 1.4.4, mysql fix / large disks / db rev 13 / jpeg fixes / GUI uses MAG09 / system DSN |
| Revision 22; 20040426 | Release 1.4.4a, mysql fix broke MS-access and SQL server, added |
| , | DoubleBackSlashToDB (see 4.1.3) |
| Revision 23; 20040615 | Release 1.4.5, built-in DbaseIII suitable for huge archives; better |
| • | deletion tools; auto-move |
| Revision 24; 20040722 | Release 1.4.6, Added FixKodak; Added "nj" compression; |
| | FixPhilips/FixKodak defaults 0 (!) |
| Revision 25; 20040805 | Release 1.4.6a, Fix in move for single image |
| Revision 29; 20041129 | Release 1.4.7, JPEG fix, bugreport button; split/merge, 'k' compress, |
| | uid list matching, AE with ~xx |
| Revision 30; 20050131 | Release 1.4.8, Fixed delete, nightlymove, 4-server; hold failed |
| | forwards/copies; distribution compiles, initial linux release and |
| | initial web interface |
| | Release 1.4.9, Fixes in web and Linux, modality worklist |
| , | Release 1.4.9a, Fix crashes due to no patch in controls.pas |
| | Release 1.4.10, VirtualServerFor, fixes leaks, linux, postgres |
| Revision 34; 20060328 | Release 1.4.11, K-Pacs viewer, native MySql, worklist fix, |
| | virtualserver fix, flexible filenamesyntax, WEBReadOnly, Fix |
| Pavision 25: 20060700 | forwarder retry logic Release 1.4.12alpha: bug fixes, db performance improved, and |
| Revision 55, 20000/08 | |
| Pavision 26: 20061222 | appendix 5-7 Release 1.4.12: bug fixes in dbaseIII driver and in deleting, |
| Kevisioii 50, 20001222 | forwarding and grabbing, resizeable GUI |
| Revision 27: 20070127 | Release 1.4.12b: importconverters, converter scripting, fixes in |
| XCV151011 37, 400/014/ | dbaseIII driver and web access, no nki compression in .dcm |
| | ubasem univer and web access, no liki compression in .dcm |

Revision 38; 20070201 Release 1.4.12c: "storage" importconverter, fix ExportFilter and problem in most GUI commands

Revision 39; 20070305 Release 1.4.13alpha: "defer" exportconverter, stuff for k-pacs web viewer; manual split into user and technical part by radtraveller – this is the technical part

Revision 39; 20070707 Release 1.4.13beta: native mysql fixes, delayed converters, sqlite

Revision 40; 20070709 Release 1.4.13beta2: some last fixes

Revision 41; 20071116 Release 1.4.13: more fixes and parameters

Revision 42; 20080322 Release 1.4.14beta: uj compression; database changes; fixes

Revision 43; 20080902 Release 1.4.14: fixes, improved web pages; added query on 'Number of Patient Related Studies' items etc.

Revision 44; 20090412 Release 1.4.15alpha: 64 bits, postgres, jpg graphic, etc.

Revision 45; 20090929 Release 1.4.15: mostly bug fixes and a few scripting extensions

Revision 46; 20100905 Release 1.4.16beta: JPEG and JPEG2000 added by Bruce Barton Further extended scripting options; bug fixes; GUI prints to AE

Revision 47; 20101023 Release 1.4.16beta5: bug fixes, WADO server and client, more converters, improved serversideviewer, caching repetitive queries, enabled MAG0\incoming folder, upload from web server, optional overlap of get and send in virtualservers, animated GIF support.

Revision 48; 20110105 Release 1.4.16rc1; service cleans and zips, fixes and more commands

Revision 49; 20110106 Release 1.4.16rc2 bug fixes

Revision 49; 20110208 Release 1.4.16rc4 added lua scripting

Revision 50; 20110402 Release 1.4.16 full release, typo in study table

Revision 51; 20121016 Release 1.4.17alpha full release

Revision 52; 20130525 Release 1.4.17 full release with ZBS scripting IDE interface

Revision 53; 20130813 Release 1.4.17b release, bug fixes

Revision 54; 20130813 Release 1.4.17c bug fixes

Contact, ConQuest DICOM server and many MicroPACS extensions

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Server core based upon:

Copyright (c) 1995 Regents of the University of California. All rights reserved. Developed by: Mark Oskin, mhoskin@ucdavis.edu; University of California, Davis Medical Center; Department of Radiology with a Solaris port done and maintained by: Terry Rosenbaum; Michigan State University; Department of Radiology.

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Administrative / Licensing Contact, original MicroPACS components Richard L. Kennedy; UC Davis Medical Center (916)734-7267 / FAX (916)734-0316 / Email: rlkennedy@ucdavis.edu Redistribution and use in source and binary forms are permitted provided that the above copyright notice and this paragraph are duplicated in all such forms and that any documentation, advertising materials, and other materials related to such distribution and use acknowledge that the software was developed by the University of California, Davis and The Netherlands Cancer Institute, Amsterdam. The name of the University may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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SECTION 1. INTRODUCTION

The MicroPACS is a Windows or Linux based PACS system that has, at it's core, the UCDMC DICOM Network Transport libraries. This system has been combined with a complete user interface (Windows only), which also acts as installation program (written in Borland Delphi) to form the Conquest DICOM server. The Information Definition is designed to be field/run-time programmable. Below the DICOM interface is a database connectivity class that uses a stable built-in SqLite or DBASEIII driver, or talks to ODBC compatible data sources (Windows only), MySql, or PostGres. This combination permits a PACS system with the following features:

- Complete DICOM Interface. Including SCP's for run-time programmable storage IOD's, and SCP for DICOM Queries and Retrieves.
- Programmable SQL Database tables. This user-programmable feature allows the MicroPACS to be custom tailored to a particular Clinical/Research area. For instance, in a CR setting, the PACS system can be programmed to allow users to query on kvp and ma or in a CT setting, the PACS can be programmed to allow queries on slice-distance.
- Communication to database is done via a SqLite (default and advised for small archives of up to 1000.000 images), a built-in dbaseIII driver, any ODBC database (Windows only), MySQL or PostGres. This allows decoupling PACS and SQL technology. ODBC was tested with:
 - Microsoft Access
 - SOL server
 - Some users have reported successful operation using Interbase and Oracle. Oracle requires manual editing of the DICOM.SQL file, where the names of fields 'rows' and 'columns' are changed to, e.g., 'qrows' and 'qcolumns'.

Note: The built-in dBaseIII driver (Conquest addition) is not a full SQL server and poses limitations on query keys: only queries like 'key' = exact match; 'key*' = value starts with key; and '*key*' = value contains key, are supported, as well as date-range queries and multiple UID matching queries. Only common hierarchical queries are supported with fields that are listed in the single de-normalized table for the selected query level (see file DICOM.SQL). Regular queries passing PatientID, StudyUID, and/or SeriesUID will be (very) fast, even for huge archives. Other (image) queries in large archives (>1000.000 images) may be very slow. Server startup time for huge archives may be long due to in-memory index creation (about 1 minute per 1000.000 images). During indexing the server is read-only and only shows indexed images.

- (Conquest addition) Fast and safe (CRC checked) error free compression (>2x) of image data on disk. Do not use this option if you want to read the image files directly from disk yourselves using third party software.
- (Conquest addition) Easy installation of many servers on a single PC. Servers may run as service(s).
- (Conquest addition) A database browser and slice viewer (Windows only) integrated in the PACS system with options for: viewing the DICOM information in a slice, creating BMP files (ideal for slides), sending

selected images, printing, and database fix tools such as changing patient IDs, and deleting and anonymizing studies and series. Also tools to merge or split series. Drag and drop to load DICOM or HL7 files, directories, or a variety of zip files (you then need to place 7za.exe in the server directory).

- (Conquest addition) A simple query/move user interface (Windows only) for diagnostic purposes, to improve your knowledge of DICOM, and to grab missing data from another server.
- (Conquest addition) Fully integrated functionality in one user interface.
- (Conquest addition) Simple print server (Windows) to default printer.
- (Conquest addition) Log files, which are daily zipped (Windows only). We use the TZipMaster VCL by Chris Vleghert and Eric W. Engler.
- (Conquest addition) Correct display of JPEG(2000) and RLE compressed images in browser.
- (Conquest addition) Flexible configuration of JPEG and NKI private compression with optional (de)compression of incoming, dropped, transmitted and archived files. Since version 1.4.16, JPEG and JPEG2000 engines are built-in using the International JPEG group and Jasper code (Interfacing by Bruce Barton). JPEG (de)compression used to be done (and this can still be configured) using executables from the OFFIS DICOM toolkit (DCMTK version 3.5.3), developed by Kuratorium OFFIS e.V..
- (More conquest additions) Highly improved performance (e.g., using a read-ahead thread), and image forwarding/action capability.
- The archive is well suited as DICOM server for the DICOMWORKS viewer by Phillipe Puech.
- If the BDE is not installed, we use the MiTeC DBFTable component by MichaL MutL. For other data sources ADO is used (Windows only). Native drivers use the DLL's from the database system (MySQL or Postgres).
- Version 1.4.12 up can use a native MySQL driver (based on Rangel Gustavo Reale's TMySQLDataset and Matthias Fichtner's mysql.pas) and includes a preliminary advanced series viewer based on EZDicom / K-Pacs (many thanks to Chris Rorden and Andreas Knopke). Fixes: strip group 2 information of any files sent, retry logic, worklist query.
- Version 1.4.12 improves database performance, has some important bug fixes (rare crashes, incomplete deletion and grabbing, and rare database corruption on dbaseIII). Further it has the possibility to forward multiple images on a single association, and improved documentation
- Version 1.4.12b and c add importconverters and bug fixes in dbaseIII driver and web access and do not allow .dcm with nki compression
- Version 1.4.13 has a web viewer based on K-PACS, SqLite is now included, and more import and export converter options were added such as delayed forwarding and preretrieval. Then small fixed were made in native mysql (also the driver is now included in the package), and several other aspects of the server, such as handling of compression errors, out of memory conditions, and others.
- Version 1.4.14 has a more web options (move, delete and viewers), more exportconverters and 'Number of Patient Related Studies' etc. query items

- Version 1.4.15alpa fixes small bugs; and adds QueryConverters, color jpeg decoding with built-in code, frame control, several command line options, an anonymization script, postgres support, and jpeg web export graphics
- Version 1.4.15 fixes more small bugs and adds more scripting options
- Version 1.4.16beta adds internal JPEG and JPEG2000 codecs adapted by Bruce, more scripting options, bug fixes and print to AE from GUI
- Version 1.4.16rc1 adds WADO, virtual query cache, zipping and cleanup at night also for a service, animated gif support, more commands and fixes
- Version 1.4.16rc2 fixes some bugs
- Version 1.4.16rc4 adds lua as very fast and flexible scripting language for converters (with access to configuration, connection, dicom objects, pixel data, database, queries) and web page design
- Full release 1.4.16 fixes several bugs
- Full release 1.4.17alpha fixes bugs and really enhances scripting
- Version 1.4.17 offers connections to the ZeroBraneStudio Lua IDE and further enhances scripting; some fixes for jpeg transfer syntax
- Version 1.4.17b and c offer some bug fixes and more scripting options

A.0 INTRODUCTION

This conformance statement (CS) details the MicroPACS compliance to DICOM v3.0. It covers all DICOM Service Class roles in this product:

- Various Storage Service Class (SCP) Roles
- Morphing Storage Service Class (SCU) Roles
- Patient Root Query & Retrieve (SCP) Roles
- Study Root Query & Retrieve (SCP) Roles
- Patient/Study Root Query & Retrieve (SCP) Roles
- Verification Service Class (SCP) Role
- Print Management (SCP) Role
- Worklist Query (SCP) Role
- WADO Server (http) Role
- Scripting host role

A.1 IMPLEMENTATION MODEL

A.1.1 Application Data Flow Diagram Remote **DICOM** Query/Retriev **INTERFACE Private Dicom** e SCU **STANDARD** interface over Web and WAl TCP/IP interface DGAT E.EXE Remote (in CGI-BIN) Storage SCU MicroPACSMain DGATE.EXE Remote HL7 Input Verification **SCU** Conquest Conquest user DICOM client interface **DLL** Remote CONQUESTDICOM Storage SCP CODICOM.DLL SERVER.EXE Default Remote Windows DICOM Print printer **SCU**

A.1.2 Functional Definition of AE's

Application Entity 1, MicroPACSMain

Supports the following functions:

- Has access to patient demographics and pixel data in the local database.
- Responds to DICOM associations containing image and worklist query requests using the information in the local database.
- Moves IOD modules to any configured DICOM AE when requested to do so by a remote DICOM AE.
- Responds to DICOM associations containing storage requests and places the IOD in the local database.
- Responds to DICOM associations containing verification requests.
- Responds to DICOM associations containing print requests and prints items on the default local Windows printer.
- Responds to private DICOM associations to support the WEB interface and maintenance functions.
- Responds to private DICOM associations to initiate scripting

NOTE: The Conquest Applications (not part of the server release) or other DICOM network viewers (e.g., KPacs) will use separate AE's which MUST be configured in ACRNEMA.MAP (use the "**Known DICOM providers"** page) to allow access of images from the DICOM server.

A.1.3 Sequencing of Real - World Activities

Image Store:

- The remote AE will initiate a DICOM association.
- Any association will trigger Lua scripts association and endassociation.
- The MicroPACSMain AE will select the appropriate Abstract and Transfer Syntax's from those proposed by the remote AE.
- The remote AE will initiate a C-Store to send the IOD.
- Any command will trigger Lua script *command*.
- The MicroPACSMain AE will respond with a C-Store-RSP upon receipt of the IOD.
- If AllowEmptyPatientID is set to 0 (default), a missing PatientID is replaced by "00000000". If AllowEmptyPatientID=1 and the patient ID is not set, it is looked up from the database for the corresponding study. Conversely if AllowEmptyPatientID=1 and there is no patient ID in the database but there is in the image, the database is updated.
- The following processing occurs using the WorkList database (can be enabled/disabled using 'WorkListMode' in DICOM.INI):
 - WorkListMode=0: no processing occurs.
 - WorkListMode=1: The AccessionNumber is looked up in the local WorkList database, if it is found, any element in the DICOM object that is also present (and non-NULL) in the WorkList database, will be replaced by the value from the WorkList database. These changes are made both in the database and in the image that is stored on disk.
 - WorkListMode=2: As mode 1, but the image will be refused if the AccessionNumber is not found. Rejected images trigger event RejectedImageWorkListConverter.

- Note: there is no DICOM method of filling the worklist database (see the description of WorkListMode).
- The following processing (can be enabled/disabled by defining 'FixPhilips = 0/1' in DICOM.INI) of the patient ID occurs to conform patient ID's generated by a Philips scanner with NKI policy:
 - From a patient ID of 10 digits (i.e., only exactly 10 digits) and a numeric value larger than 0001000000, starting with at least 2 zeros, the first 2 or 3 leading zeros are stripped. I.e., '0123456789' is not changed, '0020101234' is replaced by '20101234', '0009901234' is replaced by '9901234', and '0000012345' is replaced by 0012345. The result is that a 10 digit ID from Philips that consists of a valid NKI patient ID with extra leading zeros is converted to a valid NKI patient ID. These changes are made both in the database and in the image that is stored on disk.
- The following processing (can be enabled/disabled by defining 'FixKodak = 0/1' in DICOM.INI) of the patient ID occurs to conform patient ID's generated by a Kodak RIS worklist with NKI policy:
 - From a patient ID of 8 digits (i.e., only exactly 8 digits) and a numeric value larger than 01000000, starting with at least 1 zero, the leading zero is stripped. I.e., '0123456789' is not changed, '09901234' is replaced by '9901234', and '00012345' is replaced by 0012345. The result is that a 8 digit ID from Kodak RIS that consists of a valid NKI patient ID of before 2000 with a superfluous leading zero, is converted to a valid NKI patient ID. These changes are made both in the database and in the image that is stored on disk.
- Trailing space are discarded from the patient ID.
- Up to 99 importConverters are called as scripts or rules to modify, delete or log images or VR's in them. These scripts can also start external programs and delete/retrieve/forward parts of the patient's information. All scripts can optionally be programmed in Lua with full access to server configuration and DICOM objects.
- The pixel data is (re or un)compressed if this option is enabled.
- The image is stored and disk and image header data is (re-)entered in the database at all four levels (patient, study, series, and image). The following consistency checking is performed on the data entered in the database (without changing the image information that is stored):
 - Inconsistent link information (e.g., two images of the same series belong to different patients), lead to a reject to store the new image with reported failure to the sending client. The rejected images are passed through (lua) script 'RejectedImageConverter0' to allow extensive logging or repair actions.
 - Filled items will not be overwritten by empty items.
 - Known sex (M or F) in the patient database will not be overwritten with any other value than M or F.
 - A known date of birth in the database will not be overwritten with an empty date or with a date on the 1st of January (which has a high probability to be wrong). When the original date of birth is empty, any value will be accepted.
 - In case of any other inconsistency, the newer values will be written in the database, and the change will be logged as a warning in serverstatus.log. Inconsistencies in the birthdate are also logged in PacsTrouble.log.

- The (series) Modality field is appended to the Study Modality field in the database if it does not already contain this Modality.
- The PatientName, PatientBirthDate and PatientSex items are duplicated in the study table (database rev8 and up), to allow detection of patient ID mix-ups.
- Optionally the image is processed or forwarded (compressed or uncompressed) if Modality and StationName match with values specified in dicom.ini and the optional ExportFilter test is passed using scripts ExportConverter0 .. ExportConverter19 (see appendix 7).
- Some logging of activity occurs.

Query/Retrieve:

- The remote AE will initiate a DICOM association.
- The MicroPACSMain AE will select the appropriate Abstract and Transfer Syntax's from those proposed by the remote AE.
- Queries and retrieves can be inspected, modified or rejected by (Lua) scripts 'QueryConverter0' and 'RetrieveConverter0'. The script can also trigger move or deletes of associated data.
- Queries can be forwarded to up to 10 VirtualServerFor entries. Queries that are forwarded are processed by VirtualServerQueryConverter0. The received data is processed by VirtualServerQueryresultConverter0 and will be merged with the data from the server's database and cleaned of duplicates (see appendix 7). Query results may be cached to speed up repetitive queries.
- Optionally the 'Number of Patient Related Studies'-like items will be computed (this executes another query for each result of the first query) and is somewhat slow.
- The returned query results can be processed by a (Lua) script called 'QueryResultConverter0'.
- Upon receipt of a C-Move request, the MicroPACSMain AE will initiate an SSC/SCU association morphing to the stored IOD SOP Class to the specified and configured DICOM AE. Compressed pixel data will be decompressed or recompressed prior to transmission. Optionally a (Lua) script 'RetrieveResultConverter0' will process the retrieved image data. A C-Move response message will be generated synchronously with the associated C-Store.
- Retrieval of data stored on one or more of the VirtualServerFor entries and not on the local server will initiate automatic transfer from the listed servers in the VirtualServerFor table to the local server, followed by (or overlapping) a transfer to the C-MOVE destination. After the retrieval data can be optionally deleted again (see appendix 7).
- Some logging of activity occurs.

Worklist Query:

- The remote AE will initiate a DICOM association.
- The MicroPACSMain AE will select the appropriate Abstract and Transfer Syntax's from those proposed by the remote AE.
- Queries can be inspected, modified or rejected by a (Lua) script called 'WorkListQueryConverter0'.
- The MicroPACSMain AE will query the Worklist database and respond with zero or more modality worklist items. The sequence structure of the responses duplicates that of the query.

- The query results can be processed with a (Lua) script called 'ModalityWorkListQueryResultConverter0'.
- Some logging of activity occurs.
- Note: there is no DICOM method of filling the worklist database. It can be filled through the web interface, by drag and dropping HL7 files or programmatic (see the description of WorkListMode).

Verification:

- The remote AE will initiate a DICOM association.
- The remote AE will initiate a C-ECHO.
- The MicroPACSMain AE will respond with a C-ECHO-RSP.
- Many private command options can be added to the C-ECHO command.
- Some logging of activity occurs.

DICOM Print:

- The remote AE will initiate a DICOM association.
- The remote AE will create a basic film session using N-CREATE.
- The MicroPACSMain AE will ignore the information but will respond with a N-CREATE-RSP.
- The remote AE will create a basic film box using N-CREATE.
- The MicroPACSMain AE extracts the Image Display Format (only "STANDARD\#rows,#cols" is accepted), and the film orientation (LANDSCAPE or PORTRAIT) and passes this information to the CONQUEST user interface. All other information is ignored.
- The MicroPACSMain AE creates the correct amount of Basic Grayscale or Color Image Box objects for the film page and transmits their UIDs to the remote AE in the N-CREATE-RSP. The UIDs contain information about the page number, number of rows and columns, and the image location on the page that will be used by the CONQUEST user assemble the printed page.
- The remote AE will use N-SET to fill each Image Box object.
- The MicroPACSMain AE will store each incoming Image Box onto disk (in directory "printer_files" on device MAG0) and responds with N-SET-RSP. The name (UID) of the files is passed to the CONQUEST user interface.
- The CONQUEST user interface (Windows only) will queue incoming images and will asynchronously convert each DICOM file into a BMP file, load it in memory and assemble the pictures to be printed on a page. Processed DICOM files and BMP files are deleted. Note: the basic print support in the CONQUEST user interface will not handle multiple simultaneous print requests correctly!
- The remote AE will request printing of each film or of the complete session using an N-ACTION command for a basic film session or a basic film box.
- The MicroPACSMain AE passes these requests onto the CONQUEST user interface and responds with an N-ACTION-RSP.
- The CONQUEST user interface (Windows only) prints the pages on the default Windows printer. The only way to configure this printer is to change its default document settings in Windows. Printing progress is shown using a simple progress bar on the server status page.
- The remote AE may query the printer status with a N-GET request on the printer object.

- The MicroPACSMain AE will always respond with a N-GET-RSP with a "NORMAL" status and the name of the printer, which is pre-set to "Conquest dicom printer".
- Other N-DELETE, N-SET, and N-EVENTREPORT requests are acknowledged with an adequate RSP and ignored.
- Some logging of activity occurs.

Web and WADO access:

- The remote client will request a web page from cgi-application dgate.exe
- The cgi-application will fill a page with information. Patient information is requested over a private DICOM protocol (e.g., query2 or patientlister) from the main server to fill tables. Furthermore links may be added to:
 - GIF, BMP or JPG images
 - Viewer controls
- Links to GIF/BMP/JPG images will access the cgi-application, which in turn will request them from the main server over a private DICOM protocol. The main server is responsible for converting DICOM to GIF/BMP/JPG.
- The CGI application can generate arbitrary web pages based on a simple scripting language and/or Lua scripts.
- Since 1.4.16, the server honors WADO requests which can be converter into normal DICOM retrieves to another server defined in the file cgibin/dicom.ini using item [wadoservers]bridge.
- The links to the viewer controls (OCX or Java) have two purposes. First the control will be downloaded and installed in the web viewer. This requires reduced security settings (trusted site), download of Java and/or installation of the OCX control with regsrv32.exe. Then the viewer controls will request DICOM images as needed from the cgi-application, which in turn will request these from the main server over a private DICOM protocol. The main server is responsible for (de)compressing and optionally downsizing the DICOM images.
- Web viewers based on the original k-pacs OCX control, ImageJA, Weasis, dwv, iaViewer and simple GIF/JPEG images are included with this release and can be configured in file *cgi-bin/dicom.ini*. The (Lua) scripts provided to drive most of these viewers can be user modified.

```
client -> webserver -> dicomserver query client <- webserver <- dicomserver client <- webserver <- dicomserver query client <- webserver <- dicomserver dicomserver query client <- webserver <- dicomserver dicomserver dicomserver dicomserver control -> webserver url webserver -> dicomserver control -> webserver control -> webserver control -> webserver control -> dicomserver control -> webserver control control
```

A.2 AE SPECIFICATIONS

A.2.1 AE1 Specification

This Application Entity provides Standard Conformance to the following DICOM v3.0 SOP Classes as an SCU:

| SOP Class Name | SOP Class UID | |
|-----------------------|-------------------|--|
| Verification (Echo) | 1.2.840.10008.1.1 | |
| * Unknown IOD Storage | * See note | |

NOTE: This MicroPACS will initiate outgoing DICOM C-STORE requests masquerading as any stored IOD module. The behavior of this outgoing association link will be like the DICOM defined SCU role: Storage Service Class.

This Application Entity provides Standard Conformance to the following DICOM v3.0 SOP Classes as SCP:

| SOP Class Name | SOP Class UID | | |
|--|-----------------------------|--|--|
| Verification (Echo) | 1.2.840.10008.1.1 | | |
| Patient Root Query/Retrieve Info. Model -FIND | 1.2.840.10008.5.1.4.1.2.1.1 | | |
| Patient Root Query/Retrieve Info. Model - MOVE | 1.2.840.10008.5.1.4.1.2.1.2 | | |
| Study Root Query/Retrieve Info. Model –FIND | 1.2.840.10008.5.1.4.1.2.2.1 | | |
| Study Root Query/Retrieve Info. Model - MOVE | 1.2.840.10008.5.1.4.1.2.2.2 | | |
| Patient Study Only Query/Retrieve Info. Model -FIND | 1.2.840.10008.5.1.4.1.2.3.1 | | |
| Patient Study Only Query/Retrieve Info. Model - MOVE | 1.2.840.10008.5.1.4.1.2.3.2 | | |
| Basic Grayscale Print Management Meta SOP Class | 1.2.840.10008.5.1.1.9 | | |
| Basic Color Print Management Meta SOP Class | 1.2.840.10008.5.1.1.18 | | |
| Modality WorkList Query | 1.2.840.10008.5.1.4.31 | | |
| * Unknown IOD Storage | * See note | | |

NOTE: This MicroPACS will accept any incoming DICOM C-STORE request sent using the DICOM defined SCP role: Storage Service Class. The dgatesop.lst file (see configuration section and dicom.ini file) can be used to selectively restrict this ability.

A.2.1.1 Association Establishment Policies

A.2.1.1.1 General

The DICOM Application Context Name (ACN) that is always proposed is:

| Application Context Name 1.2.840.10008.3.1.1 | |
|--|--|
|--|--|

The Maximum Length PDU negotiation is included in all association establishment requests. The maximum length PDU for an association initiated by the NetMain AE is:

| | Maximum Length PDU | 16Kbytes |
|--|--------------------|----------|
|--|--------------------|----------|

The SOP class Extended Negotiation is not supported and ignored.

There is no limit on the maximum number of Presentation Contexts Items that will be proposed. In this implementation, each Abstract syntax will be proposed with either a single Transfer Syntax, or with a few JPEG(2000) transfer syntaxes, depending on the configuration in *acrnema.map*.

The user info items sent by this product are:

- Maximum PDU Length
- Implementation UID
- Implementation Version

Note: Max PDU length is not configurable at run time.

A.2.1.1.2 Number of Associations

MicroPACSMain AE will initiate one DICOM association to perform image store for each concurrently incoming C-MOVE request.

There is no artificial maximum placed on the number of simultaneous DICOM associations open at one time. It should be noted that system response time will be degraded, and this could possibly adversely effect a time-out period on other remote AE's.

The Print Management function will correctly handle multiple simultaneous associations, but the elementary print support in the CONQUEST user interface will not correctly print (i.e., images on the pages will be mixed up) when multiple print jobs are sent simultaneously.

A.2.1.1.3 Asynchronous Nature

Asynchronous mode is not supported. All operations will be performed synchronously.

A.2.1.1.4 Implementation Identifying Information

The Implementation UID allows unique identification of a set of products that share the same implementation.

The Implementation UID for this ID/Net v3.0 Implementation is:

| Storage & Q/R UID | 1.2.826.0.1.3680043.2.135.1066.101 |
|-------------------|------------------------------------|
| | |

A.2.1.2 Association Initiation by Real-World Activity

A.2.1.2.1 Proposed Presentation Contexts

| Presentation Context Table – Proposed | | | |
|---------------------------------------|-----------------|------|----------|
| Abstract Syntax & | Transfer Syntax | Role | Expanded |

| config | guration | | | | Negotiation |
|----------|-------------|---------------------|------------------------|-----|-------------|
| *Unknown | un,as,n1n4, | Little Endian | 1.2.840.10008.1.2 | SCU | None |
| | uj,nj | | | | |
| *Unknown | j3j6 | JPEGBaseLine1 | 1.2.840.10008.1.2.4.50 | SCU | None |
| *Unknown | j3j6 | JPEGExtended2and4 | 1.2.840.10008.1.2.4.51 | SCU | None |
| *Unknown | j5 | JPEGSpectralNH6and8 | 1.2.840.10008.1.2.4.53 | SCU | None |
| *Unknown | j6 | JPEGFulllNH10and12 | 1.2.840.10008.1.2.4.55 | SCU | None |
| *Unknown | j2 | JPEGLosslessNH14 | 1.2.840.10008.1.2.4.57 | SCU | None |
| *Unknown | j1, j2 | JPEGLossless | 1.2.840.10008.1.2.4.70 | SCU | None |
| *Unknown | jk | JPEG2000 Lossless | 1.2.840.10008.1.2.4.90 | SCU | None |
| *Unknown | jl | JPEG2000 Lossy | 1.2.840.10008.1.2.4.91 | SCU | None |

Note: Due to the morphing nature of the outgoing SSC-SCU engine, the specific Abstract Syntax that is proposed depends upon the nature of the stored image. The actual proposed Transfer Syntaxes depend on the configuration in *acrnema.map* and are the same for each class of stored images.

A.2.1.2.1.2 SOP Specific Conformance Statement for Image Storage SOP Class

This implementation can perform multiple C-STORE operations over a single association

Upon receiving a C-STORE confirmation containing a successful status, this implementation will perform the next C-STORE operation. The association will be maintained.

Upon receiving a C-STORE confirmation containing an Error, Refused or Warning status, this implementation will fail the specific IOD in question. If more images need to be sent, they will be sent in the same association.

A.2.1.2.2 Association Acceptance Policy

A.2.1.2.2.1 Real-World Activity

This AE accepts associations for the Query/Retrieve (Q/R) SOP using the Patient Root, Study Root, and Patient/Study Only Query Model.

This AE accepts associations for the Image Storage Class using any defined IOD class.

This AE accepts associations for the Verification Service Class.

This AE accepts associations for the Print Service Class.

This AE accepts associations for the WorkList Query Service Class.

A.2.1.2.2.2 Real-World Activity

This AE is indefinitely listening for Q/R, Storage Class, Verification and Print Management associations

A.2.1.2.2.3 Proposed Presentation Contexts

| Abstract Syntax | | Transfer Syntax | | Role | Expanded Negotiation |
|---|-----------------------------|-------------------|-------------------|------|-------------------------|
| Patient Root Query/Retrieve Info. Model – FIND | 1.2.840.10008.5.1.4.1.2.1.1 | Little Endian | 1.2.840.10008.1.2 | SCP | None |
| Patient Root Query/Retrieve Info. Model – MOVE | 1.2.840.10008.5.1.4.1.2.1.2 | Little Endian | 1.2.840.10008.1.2 | SCP | None |
| Study Root Query/ Retrieve Info. Model – FIND | 1.2.840.10008.5.1.4.1.2.2.1 | Little Endian | 1.2.840.10008.1.2 | SCP | None |
| Study Root Query/ Retrieve Info. Model – MOVE | 1.2.840.10008.5.1.4.1.2.2.2 | Little Endian | 1.2.840.10008.1.2 | SCP | None |
| Patient/Study Only Query/Retrieve Info. Model – FIND | 1.2.840.10008.5.1.4.1.2.3.1 | Little Endian | 1.2.840.10008.1.2 | SCP | None |
| Patient/Study Only Query/Retrieve Info. Model – MOVE | 1.2.840.10008.5.1.4.1.2.3.2 | Little Endian | 1.2.840.10008.1.2 | SCP | None |
| Modality WorkList Query | 1.2.840.10008.5.1.4.31 | Little Endian | 1.2.840.10008.1.2 | SCP | None |
| Basic Grayscale Print Management Meta SOP Class | 1.2.840.10008.5.1.1.9 | Little Endian | 1.2.840.10008.1.2 | SCP | None |
| Basic Color Print Management Meta SOP Class | 1.2.840.10008.5.1.1.18 | Little Endian | 1.2.840.10008.1.2 | SCP | None |
| *Unknown | *Unknown | Little Endian* | 1.2.840.10008.1.2 | SCP | None |
| Verification | 1.2.840.10008.1.1 | Little Endian | 1.2.840.10008.1.2 | SCP | None |

Note: Due to the morphing nature of the incoming SSC-SCP engine, the specific Abstract Syntax accepted will depend upon the nature of the stored image, and the dgatesop.lst configuration file (of which a default version is automatically created when installing the Conquest DICOM server).

A.2.1.2.2.4 SOP Specific Conformance for Query/Retrieve FIND SOP Class SCP The C-FIND response status values are supported as defined in DICOM v3.0 Part 4.

All Required (R) and Unique (U) Study, Series, and Image Level Keys for the Patient Root, Study Root, and Patient/Study Only Query/Retrieve Information Model are supported. Many optional (O) Keys are supported, as described later in this document.

A.2.1.2.2.5 SOP Specific Conformance for Query/Retrieve MOVE SOP Class SCP

Prioritization of C-FIND & C-MOVE requests is all set to normal - 0.

^{*}The server can accept many transfer syntaxes as configurable by *dgatesop.lst*.

All images requested in a single C-MOVE will be sent over a single association (the association will not be re-established for each image).

A.2.1.2.2.6 SOP Specific Conformance for "Unknown" Storage SCP

The specific Storage SCP classes accepted are programmable (by the user) at runtime, and cannot be explicitly stated here.

No optional elements are discarded.

The duration of the storage is temporary. Least recently added patients are deleted when the disk space is less than the amount specified in the "Cleanup disk space below (MB)" field in the Conquest DICOM server. This amount is run-time configurable. When the DICOM server is connected to a, e.g., jukebox archival system, the duration of storage can be made permanent.

A.2.1.2.2.7 Presentation Context Acceptance Criterion

No criterion.

A.2.1.3 Transfer Syntax Selection Policies

The server can accept most transfer syntaxes as configurable by *dgatesop.lst*. Outgoing connections can be made over uncompressed, loss-less or lossy JPEG(2000) transfer syntaxes. If so, the images are recompressed to conform to the accepted transfer syntax. The configuration is done through *acrnema.map*. Lossy compression configuration settings like j3 and j1 may be followed by a 2 digit quality percentage factor. Note that the effect of this quality factor differs between jpeg and jpeg2000.

| Configuration | Proposed transfer syntaxes | Name |
|-------------------------------------|----------------------------|--------------------------|
| un ¹ , as ² , | 1.2.840.10008.1.2 | ImplicitLittleEndian |
| $n1n4^3$, nj^4 , uj^4 | | |
| ub | 1.2.840.10008.1.2.1/2 | ExplicitLittle/BigEndian |
| ul | 1.2.840.10008.1.2.1 | ExplicitLittleEndian |
| u2 | 1.2.840.10008.1.2.2 | ExplicitBigEndian |
| j1 | 1.2.840.10008.1.2.4.70 | JPEG Lossless sv1 |
| | 1.2.840.10008.1.2 | ImplicitLittleEndian |
| j2 | 1.2.840.10008.1.2.4.57 | JPEG Lossless sv 6 |
| | 1.2.840.10008.1.2.4.70 | JPEG Lossless sv1 |
| | 1.2.840.10008.1.2 | ImplicitLittleEndian |
| j3, j4 | 1.2.840.10008.1.2.4.51 | JPEG extended (12 bits) |
| (or e.g., J380 for | 1.2.840.10008.1.2.4.50 | JPEG baseline (8 bits) |
| 80%quality) | 1.2.840.10008.1.2 | ImplicitLittleEndian |
| j5 | 1.2.840.10008.1.2.4.53 | JPEG spectral selection |
| | 1.2.840.10008.1.2.4.51 | JPEG extended (12 bits) |
| | 1.2.840.10008.1.2.4.50 | JPEG baseline (8 bits) |
| | 1.2.840.10008.1.2 | ImplicitLittleEndian |
| j6 | 1.2.840.10008.1.2.4.55 | JPEG progressive |
| | 1.2.840.10008.1.2.4.51 | JPEG extended (12 bits) |
| | 1.2.840.10008.1.2.4.50 | JPEG baseline (8 bits) |
| | 1.2.840.10008.1.2 | ImplicitLittleEndian |

| jk ⁵ | 1.2.840.10008.1.2.4.90 | JPEG2000 Lossless |
|--------------------------------|------------------------|-------------------|
| jl ⁵ (or e.g. jl80) | 1.2.840.10008.1.2.4.91 | JPEG2000 Lossy |

Note: The transfer syntaxes are listed in order of priority. I.e., if a host is configured as j1 and it accepts JPEG lossless, the image will be lossless JPEG compressed before transmission, even if it was not stored in that way.

- 1) un = uncompressed. Images will be decompressed prior to transmission.
- 2) The configuration "as" will transmit images as-is. Independent of how images are stored on disk (with JPEG or NKI compression), they will be transmitted over an ImplicitLittleEndian connection. This behavior does not conform to the DICOM standard and for many hosts this may therefore not work. NKI clients will work, though.
- 3) Configurations n1..n4 will transmit images with NKI private compression, which can only be read by NKI clients.
- 4) nj = nki compressed, leave jpeg as is; uj = uncompressed, leave jpeg as is
- 5) JPEG2000 compression is rather slow, a 512² is processed on an i7 machine in about 60 ms, versus <10 ms for JPEG and <3 ms for NKI compression.

A.3. COMMUNICATION PROFILES

A.3.1 Supported Communication Stacks (parts 8,9)

DICOM Upper Layer (Part 8) is supported using TCP/IP.

A.3.2 OSI Stack

OSI stack not supported.

A.3.3 TCP/IP Stack

The TCP/IP stack is inherited from the Windows/Linux operating System. (Conquest addition): We have used the excellent Delphi TCP/IP components from François Piette (http://www.overbyte.be) in the CONQUEST user interface GUI.

A.3.3.1API

Developers can base client programs on **TEST.EXE** and **DICOMP.EXE** that are included with source code in the **DICOMLIB1417b.ZIP** release file. The actual DICOM server (with many options) is **DGATE.EXE** that is included with source code in release file **DGATE1417b.ZIP** and

DICOMLIB1417b.ZIP. Source code of the Windows user interface, client DLL (used for queries only) and web viewer OCX is *not* included. Developers can also add scripts in Lua or a limited private scripting language for several core server tasks to provide extensive processing of DICOM objects such as images and queries.

A.3.3.2Physical Media Support

Any Windows (Linux) supported physical media.

A.3.4 Point-to-Point Stack

A 50 pin ACR-NEMA connection is not supported.

A.4. EXTENSIONS / SPECIALIZATION / PRIVATIZATIONS

VR (0x7fdf, 0x0010) contains compressed pixel data if NKI compression is used. In the normal configuration, the server will never transmit NKI compressed data, but will compress and decompress the data on the fly. The following presentation contexts have been added to allow NKI private compressed data to be transmitted and to allow retrieval of downsized images for higher speed:

```
      1.2.826.0.1.3680043.2.135.1066.5.1.4.1.2.1.2
      PatientRootRetrieveNKI

      1.2.826.0.1.3680043.2.135.1066.5.1.4.1.2.2.2
      StudyRootRetrieveNKI

      1.2.826.0.1.3680043.2.135.1066.5.1.4.1.2.3.2
      PatientStudyOnlyRetrieveNKI
```

These contexts contain sub-classed versions of the standard C-MOVE commands with the following additional optional control parameters (numbers are hexadecimal):

```
(9999, 0100): MaxVrSize
                                      Do not send VRs larger than this number of bytes
(9999, 0200): MaxRowsColums
                                      Downsize image to maximal this #rows and columns
(9999, 0201): Frame
                                      If given, return only the selected frame of a MF object
(9999, 0300): ConsoleText
                                      Text will be printed to server console
(9999, 0400): Silent
                                      If sent, console does not log transaction
                                      Also used internally by GUI, WEB and scripting interface
(9999, 0500): MaxSlices
                                      Send at most # slices irrespective of query result
(9999, 0600): MaxCompression
                                      Maximum supported compression by NKI client (default 4)
(9999, 0700): Recompression
                                      Recompress style NKI or JPEG (default none)
(9999, 0802): VirtualServerMask
                                      Restrict access to selected virtual servers (default all used)
(9999, 0900): Script
                                      'ImportConverter' with which transmitted objects are processed
(9999, 0a00): MoveOriginatorAE
                                      The outgoing C-MOVE impersonates the passed AE
```

A.5. WADO FUNCTIONALITY

Standard WADO functionality is provided through the Conquest web server (see the Windows manual). The WADO interface supports the following CGI

keywords (in e.g., http://128.0.0.1/cgi-bin/dgate.exe? requestType=WADO&contentType=image/gif&studyUID=xxx&seriesUID=yyy&objectUID=zzz)

```
studyUID, seriesUID, objectUID:
                                                       to select the object returned
contentType:
                                                       to select the way it is returned
                                                       single or multiframe image
         image/gif
         image/jpeg
                                                       single frame
                                                       not implemented returns jpeg
         image/png
         image/jp2
                                                       not implemented returns jpeg
                                                       not supported
         video/mpeg
         text/plain
                                                       returns header as text
         text/html
                                                       returns header as HTML
         application/dicom
                                                       returns DICOM object
transferSyntax: DICOM returned uncompressed (default) or compressed with:
         1.2.840.10008.1.2.4.50 \rightarrow j3 \text{ (jpeg)}
         1.2.840.10008.1.2.4.51 \rightarrow j4 \text{ (jpeg)}
         1.2.840.10008.1.2.4.53 \rightarrow j5 \text{ (jpeg)}
         1.2.840.10008.1.2.4.55 \rightarrow j1 \text{ (jpeg)}
         1.2.840.10008.1.2.4.57 \rightarrow j2 \text{ (jpeg)}
         1.2.840.10008.1.2.4.70 \rightarrow i1 \text{ (jpeg)}
         1.2.840.10008.1.2.4.90 \rightarrow jk \text{ (jpeg2000)}
         1.2.840.10008.1.2.4.91 \rightarrow jl \text{ (jpeg2000)}
                                                       to downsize image
rows, columns
```

region to crop image
windowCenter, windowWidth window/level for gif/jpg
frameNumber to select a frame (default first)
anonymize if "yes" call anonymize_script.cq
annotation read but not supported
imageQuality passed to jpeg encoder
charset ignored for now

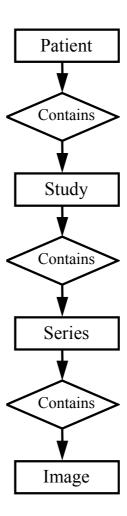
bridge default is the current server or taken from [wadoservers]bridge in dicom.ini in the web servers *cgi-bin* folder

SECTION 3 DEFAULT QUERY/RETRIEVE INFORMATION MODEL DEFINITION

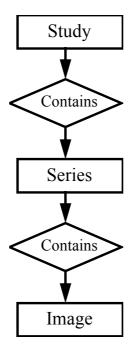
This section describes the subset of the DICOM v3.0 Patient Root, Study Root, and Patient/Study Only, Query/Retrieve Information Model Definition used by this product.

3.0 INTEROPERABILITY SCHEMA

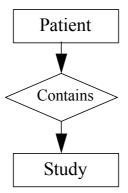
3.0.1 PATIENT ROOT QUERY/RETRIEVE ENTITY RELATIONSHIP



3.0.2 STUDY ROOT QUERY/RETRIEVE ENTITY RELATIONSHIP



3.0.3 PATIENT/STUDY ONLY QUERY/RETRIEVE ENTITY RELATIONSHIP



3.1 ENTITY DESCRIPTIONS

See DICOM Standard Part 4

3.2 PATIENT ROOT QUERY/RETRIEVE INFORMATION OBJECT DEFINITION

3.2.1 Patient Level Keys for Patient Root Query/Retrieve Information Model

| Attribute Name | Element Tag | Type | Notes | |
|------------------------------------|-------------|------|--------------------------|--|
| Revision: 10 (plus computed items) | | | | |
| | | | | |
| Patient Name | (0010,0010) | R | 1 | |
| Patient ID | (0010,0020) | U | 1 | |
| Patient Birth Date | (0010,0030) | 0 | | |
| Patient Sex | (0010,0040) | 0 | | |
| Number of Patient | (0020,1200) | О | Computed* - not database | |
| Related Studies | | | | |
| Number of Patient | (0020,1202) | 0 | Computed* - not database | |
| Related Series | | | | |
| Number of Patient | (0020,1204) | 0 | Computed* - not database | |
| Related Instances | | | | |

^{*}requires setting EnableComputedFields = 1 in dicom.ini

Note 1: If setting AllowEmptyPatientID = 1 (default it is 0), these items may be missing on all objects of a study – the system will then not support PatientRoot operations, or on some objects of a study, where the system will update the database appropriately

3.2.2 Study Level Keys for Patient Root Query/Retrieve Information Model

| Attribute Name | Element Tag | Type | Notes | |
|------------------------------------|-------------|------|--------------------------|--|
| Revision: 17 (plus computed items) | | | | |
| | | | | |
| Study Instance UID | (0020,000D) | U | | |
| Study Date | (0008,0020) | R | | |
| Study Time | (0008,0030) | R | | |
| Study ID | (0020,0010) | R | | |
| Study Description | (0008,1030) | О | | |
| Accession Number | (0008,0050) | О | | |
| Referring Physician | (0008,0090) | О | | |
| Patients Age | (0010,1010) | О | | |
| Patients Weight | (0010,1030) | О | | |
| Study Modality | (0008,0061) | О | Multiple entry item, | |
| | | | automatically updated by | |
| | | | server | |
| Number of Study | (0020,1206) | О | Computed* - not database | |
| Related Series | | | | |
| Number of Study | (0020,1208) | О | Computed* - not database | |
| Related Instances | | | | |

^{*}requires setting EnableComputedFields = 1 in dicom.ini

3.2.3 Series Level Keys for Patient Root Query/Retrieve Information Model

| Attribute Name | Element Tag | Type | Notes | |
|--------------------------|-------------|------|-------|--|
| Revision: 17 (plus compu | ted items) | | | |

| Series Instance UID | (0020,000E) | U | |
|------------------------|-------------|---|--------------------------|
| Series Number | (0020,0011) | R | |
| Series Date | (0008,0021) | R | |
| Series Time | (0008,0031) | R | |
| Series Description | (0008,103E) | 0 | |
| Modality | (0008,0060) | О | |
| Station Name | (0008,1010) | 0 | |
| Institution | (0008,0080) | О | |
| Patient Position | (0018,5100) | О | |
| Contrast Bolus Agent | (0018,0010) | 0 | |
| Manufacturer | (0008,0070) | О | |
| Model Name | (0008,1090) | О | |
| Body Part Examined | (0018,0015) | О | |
| Protocol Name | (0018,1030) | О | |
| Frame of Reference UID | (0020,0052) | О | |
| Number of Series | (0020,1209) | 0 | Computed* - not database |
| Related Instances | | | |

^{*}requires setting EnableComputedFields = 1 in dicom.ini

3.2.4 Image Level Keys for Patient Root Query/Retrieve Information Model

| Attribute Name | Element Tag | Type | Notes |
|------------------------|-------------|------|---------------------|
| Revision: 13 | | | |
| | | | |
| SOP Instance UID | (0008,0018) | U | |
| SOP Class UID | (0008,0016) | О | |
| Image Number | (0020,0013) | О | |
| Image Date | (0008,0023) | О | |
| Image Time | (0008,0033) | О | |
| Echo Number | (0018,0086) | О | Multiple entry item |
| Number Of Frames | (0028,0008) | О | |
| Acq Date | (0008,0022) | О | |
| Acq Time | (0008,0032) | О | |
| Receiving Coil | (0018,1240) | 0 | |
| Acq Number | (0020,0012) | О | |
| Slice Location | (0020,1041) | О | |
| Samples Per Pixel | (0028,0002) | О | |
| Photometric Interpret. | (0028,0004) | 0 | |
| Rows | (0028,0010) | О | |
| Columns | (0028,0011) | 0 | |
| Bits Stored | (0028,0101) | 0 | |
| Image Type | (0008,0008) | О | Multiple entry item |
| Image ID | (0054,0400) | О | |

3.3 STUDY ROOT QUERY/RETRIEVE INFORMATION OBJECT DEFINITION

3.3.1 Study Level Keys for Study Root Query/Retrieve Information Model

| Attribute Name | Element Tag | Туре | Notes | |
|------------------------------------|-------------|------|--------------------------|--|
| Revision: 17 (plus computed items) | | | | |
| | | _ | | |
| Patient Name | (0010,0010) | О | | |
| Patient ID | (0010,0020) | О | | |
| Patient Birth Date | (0010,0030) | О | | |
| Patient Sex | (0010,0040) | О | | |
| Study Instance UID | (0020,000D) | U | | |
| Study Date | (0008,0020) | R | | |
| Study Time | (0008,0030) | R | | |
| Study ID | (0020,0010) | R | | |
| Study Description | (0008,1030) | О | | |
| Accession Number | (0008,0050) | О | | |
| Referring Physician | (0009,0090) | О | | |
| Patients Age | (0010,1010) | О | | |
| Patients Weight | (0010,1030) | О | | |
| Study Modality | (0008,0061) | О | Multiple entry item – | |
| | | | automatically updated by | |
| | | | server | |
| Number of Study | (0020,1206) | О | Computed* - not database | |
| Related Series | | | | |
| Number of Study | (0020,1208) | О | Computed* - not database | |
| Related Instances | 1.0 (15) 11 | | | |

^{*}requires setting EnableComputedFields = 1 in dicom.ini

3.3.2 Series Level Keys for Study Root Query/Retrieve Information Model

See Section 3.2.3

3.3.3 Image Level Keys for Study Root Query/Retrieve Information Model

See Section 3.2.4

3.4 PATIENT/STUDY ONLY QUERY/RETRIEVE INFORMATION OBJECT DEFINITION

3.4.1 Patient Level Keys for Patient/Study Only Query/Retrieve Information Model

See Section 3.2.1

3.4.2 Study Level Keys for Patient/Study Only Query/Retrieve Information Model

See Section 3.2.2

3.5 MODALITY WORKLIST QUERY INFORMATION OBJECT DEFINITION

3.5.1 Keys for Modality Worklist Query Information Model

| Attribute Name | Element Tag | Туре | Notes |
|------------------------|-------------|-------------|-----------------------|
| Revision: 17 | Liement rug | 1 1 1 1 1 1 | 110105 |
| Revision. 17 | | | |
| Accession Number | (0008,0050) | О | Primary Key |
| Patient ID | (0010,0020) | R | |
| Patient Name | (0010,0010) | R | |
| Patient Birth Date | (0010,0030) | 0 | |
| Patient Sex | (0010,0040) | 0 | |
| Medical Alerts | (0010,2000) | 0 | |
| Contrast Allergies | (0010,2110) | О | |
| Study Instance UID | (0020,000D) | 0 | |
| Requesting Physician | (0032,1032) | 0 | |
| Requested Procedure | (0032,1060) | 0 | |
| Description | | | |
| Requested Procedure | (0032,1064) | R | 1 instances of this |
| Code Sequence | | | sequence required |
| >Modality | (0008,0060) | R | - |
| >Requested contrast | (0032,1070) | О | |
| agent | | | |
| >Scheduled AE | (0040,0001) | R | |
| >Start date | (0040,0002) | R | |
| >Start time | (0040,0003) | R | |
| >Performing Physician | (0040,0006) | R | |
| >Scheduled Procedure | (0040,0007) | О | |
| Step Description | | | |
| >Scheduled Procedure | (0040,0009) | О | |
| Step ID | | | |
| >Scheduled Station | (0040,0010) | О | |
| Name | | | |
| >Scheduled Procedure | (0040,0011) | О | |
| Step Location | | | |
| >Premedication | (0040,0012) | 0 | |
| >Scheduled Procedure | (0040,0400) | 0 | |
| Step Comments | | | |
| Requested Procedure ID | (0040,1001) | О | |
| Requested Procedure | (0040,1003) | О | |
| Priority | | | |
| Character set | (0008,0005) | * | Returned as "ISO_IR |
| | | | NNN" only when |
| | | | WorkListReturnsISO_IR |
| | <u> </u> | <u> </u> | 100 is set to NNN |

To code this information into a database, the contents of the sequence are unfolded to the same level as the other fields. *This field will be optionally returned whether requested or not.

4.1 FILES

Installation files (in DicomServer1417.zip):

windowsmanual.pdf Documentation

DicomConformance_FilesLST_Changes.pdf This file conquestdicomserver.exe User interface (GUI)

dgate.exe console mode version of MicroPACS system dgate64.exe Idem for 64 bits (automatically selected) dgate.dic DICOM dictionary for dgate.exe

cqdicom.dll Conquest DICOM client DLL (for GUI only).
dgateserv.exe NT service wrapper for dgate.exe V1.1

zipdll.dll ZipMaster DLL zips log files (optional, else uses 7za.exe)

libmysql.dll Mysql client dll for 5.0.22 libmysql64.dll 64 bit mysql client dll for 5.0.22

libmysql.txt Mysql license text

libpq64.dll 64 bit client DLL for postgres (hard to find)

7za.exe 7-zip command line version

7za.txt 7-zip license text pscp.exe putty ssh2 copy utility pcsp.txt putty license text

jpeg2yuv.exe mpegtools utility to stream a series jpg images (unused) mpeg2enc.exe mpegtools utility to encode a mpeg2 movie (unused)

mpegtools.txt license file for mpegtools (unused)

sample.hl7 Example HL7 input file

anonymize_script.cq anonymizer script (calls user configurable lua script)
ZeroBraneStudio*.* integration files for the ZeroBraneStudio IDE

lua*.* (sample and serious) lua scripts

data\HEAD_EXP_00097038\ 0001_002000_892665661.v2 data\HEAD_EXP_00097038\ 0001_003000_892665662.v2

 webserver\htdocs\ActiveFormProj1.ocx
 ActiveX (old) K-Pacs web viewer

 webserver\htdocs\conquest.jpg
 conquest logo for on web page

 webserver\cgi-bin\dicom.ini
 sample web page configuration

webserver\cgi-bin\samples*.* sample web scripts

webserver\cgi-bin\OpenClinica*.* scripts to drive an OpenClinica – PACS coupling

webserver\cgi-bin\viewers*.* scripts to drive different web viewers

Configuration files (automatically generated):

dicom.ini Configuration file

dicom.sql Database table definition file

acrnema.map System/IP map file dgatesop.lst SOP Class definition file

USE..... Determines database driver to be installed

Database files (automatically generated, example for SQLite):

data\dbase\conquest.db3 Database tables

data\dbase\XDicompatients.dbf
data\dbase\XDicomseries.dbf
data\dbase\XDicomseries.dbf
data\dbase\XDicomseries.dbf
data\dbase\XDicomimages.dbf
data\dbase\XDicomimages.dbf
data\dbase\XDicomimages.dbf

 $data \\ dbase \\ XDicomwork \\ list. \\ dbf \qquad extract \ of \ database \ table \ (not \ used)$

data\printer files temporary and printer files

data\printer_files\querycache optional cache for repetitive queries to virtualservers

data\incoming folder – monitored for data to load if present

Log files (automatically generated):

Installation.log logs from installation page
Maintenance.log logs from maintenance page

ServerStatus.log logs from server status page or service PacsTrouble.log relevant errors from server status log

PacsUser.log all users who accessed the server ConquestDicomServer.log log about main actions and server start/stop

logs\logs_yyyymmdd.zip automatically zipped set of log files

Data files (automatically generated – 5678 is the servers port #):

ExportFailures5678_0 data of failed exports for later retrying CopyFailures5678 data of failed mirror copies for later retrying

DelayedFetchForwardFailures5678 data of failed delayed forwards Note: The server deletes these files (or delete manual) to abort retrying

Image file (example, for FileNameSyntax parameter set to 3):

4.2 PRODUCT INTERACTION / DESCRIPTION

dgate.exe*:

DICOM MicroPACS AE Main. This is the principal PACS application. It handles all connections (see threading model note in section 4.4 of this part). Contained in this executable are verification, storage, print, and various query and retrieve DICOM SOP classes. This executable interfaces to the PACS database via ODBC, MySQL or Postgres drivers, or using a built-in SqLite or dBaseIII driver. In the event that disk space is low, it will optionally delete least recently entered patients. This application also contains code for installation, maintenance, and archival operations that is used by the Conquest DICOM server. For these purposes a second copy of dgate.exe is started. Type "dgate -?" for more information. Then dgate.exe can send commands to a running Conquest PACS using dgate – commands. Then dgate.exe can interpret lua scripts in itself (dgate –dolua:) or trigger the server to do so (dgate –lua: and dgate –luastart:). Finally, the same executable may act as CGI/WADO server application. In some rare cases, the dgate process may still be running even though the user interface has closed (after a crash or after killing it with the task manager). The user interface, when restarted, then assumes that the dgate process belongs to a service (and displays "user interface" in the caption), but cannot control the running process. Killing the dgate process with the task manager or rebooting will solve this problem. All source code of dgate.exe in included in DGATE1417c.ZIP and DICOMLIB1417c.ZIP. To compile dgate.exe one can use total.cpp (documentation included). A github repository is being set up for more linux and unix orientated version dgate 1.4.18 (alpha version now)

dgate64.exe

Identical application for use in a 64 bits windows OS. Dgate.exe or dgate64.exe are automatically selected. Delete dgate64.exe to force use of 32 bits in a 64 bit OS. At least one of dgate.exe or dgate64 must be present.

dgate.dic*: DICOM dictionary used by dgate.exe. Must be present.

dgateserv.exe: Optional wrapper (V1.2) for dgate.exe to make it run as a Windows service. May be used (advanced users only) to manually (even remotely) start / stop / install / uninstall service(s). Type "dgateserv /?" for more information. Note that DICOM server services are named after the AE of the server. Once dgate.exe is installed as a service, the DICOM server(s) starts automatically when the computer is booted. When the user interface is started it will detect that the server is already running and connect to it. Source code is not included. Service install for Windows7 requires running the server in administrator mode.

conquestdicomserver.exe:

This executable is the user interface and installation program and contains parts of the print server. See the installation section of this document for its functions. The database browser tries to use the Borland Database Engine. Without BDE, the server will run fine, except one filter option in the browser. Source code is not included. This file is optional, the server can also run without a GUI.

cqdicom.dll:

This is code for the Conquest DICOM client. It is used here to convert DICOM images for printing, list the image file header and provide query, move and echo actions from the GUI. The source code of this DLL is not included but it is based on the programs "TEST.EXE" and "DICOMP.EXE" that are included with source code. This file is not needed if the GUI is not used.

Libmysql.dll: When present, provides native access to MySQL, both for GUI and the server core. Redistributed because binary compatibility is required between compiled applications and the interface DLL: i.e. this file has to be of a specific version, even if it is used to communicate with MySQL databases of other versions. Comes from http://downloads.mysql.com/archives/mysql-5.0/mysql-noinstall-5.0.22-win32.zip

Libmysql64.dll: provides native access to MySQL for 64 bits server core

Libpq64.dll: provides (hard to find) native access to PostGres for 64 bits

server core. Comes from: http://forum.manifold.net/forum/t49971.21. Note: the 32-bit PostGres client DLL's are not included in the distribution and must be taken from the bin folder of your

PostGres distribution.

7za.exe: 7-zip command line version: used by the server core to unzip

dropped zip files with dicom files, to zip log files, and to zip

dicom data sets for submission over ssh-2.

pcsp.exe: used by the submit script and server commands to submit data

over a ssh-2 connection.

jpeg2yuv.exe mpegtools utility to stream a series jpg images

mpeg2enc mpegtools utility to encode a mpeg2 movie. For used by the

WADO server when mpeg is requested (not implemented yet)

These files are generated by the GUI on install:

dicom.ini* Configuration settings. File must be present but does not need

to conatin all settings.

acrnema.map* List of known DICOM providers. The file must be present but

may be empty of no C-MOVES are used.

dicom.sql* Database table configuration. This file must be present if the

database is used on if dicomquery is called from a lua script.

Web server (place minimally these files marked with * in your web server):

cgi-bin/Dgate.exe*: exactly the same dgate.exe as in the server.

^{*}Mimimal set of files for a server without a GUI.

cgi-bin/Dicom.ini*: specialized ini file for server running as web(cgi) client.

cgi-bin/acrnema.map*List of known DICOM providers (may be in dicomserver folder).

cgi-bin/dicom.sql* Database table configuration. (as above).

htdocs/ActiveFormProj1.ocx: Optional ActiveX web viewer, to be registered manually or downloaded from your web server and installed.

htdocs/conquest.jpg: Icon for use on the web pages

cgi-bin\samples*.* sample web scripts

cgi-bin\OpenClinica*.* scripts to drive an OpenClinica – PACS coupling

cgi-bin\viewers*.* scripts to drive different web viewers

cgi-bin\clibs*.* lua extensions used by lua scripts run on the web server

4.3 THREADING ARCHITECTURE

The MicroPACS system was designed to run in two multithreading models. The first model is "Multithreaded", the second is "Multiprocess". The Multithreaded model can best be described as a monolithic application. Each incoming DICOM association is allocated a separate thread of execution within the same memory and address space of the master process. These threads share the same code within the single (monolithic) executable. The Multiprocess model is similar to "inet" on UNIX operating systems. There is a controlling application (conquestdicomserver.exe) which handles incoming TCP/IP connections. For each connection, a new copy of the MicroPACS main executable (dgate.exe) is loaded and executed. A separate process that runs in a separate address space from all other associations handles each DICOM association.

The multithreaded application is slightly faster than the multiprocess one; But the multiprocess one is more secure, and should be more reliable. Because each process runs in it's own address space, an association from one connection cannot corrupt or undermine (in any possible way) another simultaneous association. For this reason, the default installation of the MicroPACS was the multiprocess model.

However, extensive testing of the Conquest DICOM server showed that the multiprocess version sometimes failed to work correctly on Windows (some ODBC problem). For this reason, the multithreaded version is currently used with the Conquest DICOM server. Several fixes have increased its speed and made it very reliable.

Also, the built-in DBASEIII driver applies in-memory indexing and depends on the server process staying in memory to achieve a high speed. In the Linux version, the built-in DBASEIII driver, SqLite, PostGres and MySQL are the database drivers available.

APPENDIX 1.

Fixes, modifications and extensions of MicroPACS by Marcel van Herk and Lambert Zijp of the Conquest project:

DICOM.SQL (Database definition):

| 19980624 | StudyNumber (StudyID in DICOM) is now 64 long |
|----------|--|
| | Required for correct operation with SQL server |
| 19990109 | Made imagenumber 10 characters wide |
| 19991222 | Moved MODALITY to the series level (for DICOM-RT) |
| 19990315 | Added EchoNumber and NumberOfFrames in image table |
| 20010830 | Revision to 4, extended database significantly |
| 20010416 | Revision 5: Added patientID in series and images for more |
| | efficient querying |
| 20010416 | Revision 6: Added frame of reference UID in series table |
| 20020519 | Revision 7: Added ImageType in image table, StudyModality to |
| | 64 chars, AcqDate to SQL_C_DATE |
| 20021028 | Revision 8: Denormalized study table (add patient ID, name, |
| | birthdate) to show consistency problems. Revision 9 is a further |
| | de-normalized version that is used with the built-in DbaseIII |
| | driver. |
| 20030319 | Revision 10: Fixed width of ReceivingCoil: to 16 chars |
| 20030907 | Note: revisions 9, 11 and 12 refer to the ODBC-less version |
| 20040402 | Revision 13: Added ImageID to image database |
| 20040905 | Revision 14: Added WorkList database with HL7 tags |
| 20080124 | Revision 15: Added patient position to denormalized image |
| | table for built-in DBF driver'); |
| 20080124 | Revision 16: Moved Stationname and |
| | InstitutionalDepartmentName to series table'); |
| 20080818 | Revision 17: EchoNumber, ReqProcDescription to 64 |
| | characters; StudyModality, EchoNumber, ImageType to |
| | DT MSTR; use Institution instead of |
| | Institutional Department Name'); |
| | * // |

DGATE.CPP (main of **DGATE.EXE**):

| 19980327: | Disable logfile for speed and save disk |
|-----------|--|
| 19980327: | -! Enables logging to Personal pacs console; RunServer works; |
| | -p breaks |
| 19980327: | All printf's to systemdebug |
| 19980320: | Integrated dumppacs code here for convenience |
| 19980320: | Fixed -p option; SaveToDisk returns filename, printed in stats |
| 19980320: | Documented and added print of usage (-? option) |
| 19980404: | Added test options, ODBC config option and command line |
| | specified console pipe / udp logging |
| 19980409: | added FileCompressMode option; use local save to disk code |
| | instead of pdu member |
| 19980409: | Return on failed GenerateFileName in SaveToDisk |
| 19980409: | Cleaned up NKI private compression code and allow >15 bit |
| | differences |
| 19980410: | Added run length encoding for equal pixels to compressor; fix |
| | 3-byte case |
| | |

| 19980415: | Cleaned up the messages; -! does not enable debug; do not |
|------------------------|--|
| | enable accessupdates (use aroute) |
| 19980618: | Some work on manual and database layout listing |
| 19980621: | Added -z option: zap patient |
| 19980624: | Comm test also produces systemdebug and long text output; |
| 10000605 | added \n to some output |
| 19980625: | SaveDicomDataObject in loadddo.cpp supports NKI private |
| 10000704 | compression |
| 19980704: | Added some test code for counting disk space and renaming |
| 10000705 | device for patient |
| 19980705: | Added CACHE devices in free store check; added |
| 10000700. | FindPhysicalDevice (searches for file) |
| 19980709: 19981217: | Added archiving options: -as, -au, -ab, -ac, -ad Temperary use PDI Save - and for testing DICOM chicats |
| 19981217. | Temporary use PDU.Save code for testing DICOM objects (does not compress) |
| 19981218: | Temp use Pdu.Load as well (no compression) |
| 19981228: | Disabled liz's code until it has been completed |
| 19990108: | Reenabled ljz's code: Replace uncompressed by compressed |
| 17770100. | pixeldata VR in SaveToDisk (it seemed to work anyway) |
| 19990109: | Removed some commented out code; added comments for |
| 1,,,,,,,,,,, | alternative load and save routines. Added Regen of specified |
| | device |
| 19990110: | Added n, for MAGn, as parameter in -as and -ab archiving |
| | options (default all). Use exit(1) on failure |
| 19990111: | Fixed exit code on -ar option |
| 19990117: | If the filename is *.dcm (depends on FileNameSyntax) use |
| | uncompressed chapter 10 format |
| 19990317: | Added NKI-private stuff |
| 19990628: | Temporary enabled debug in -!nnnn option |
| 19990630: | Added MIRROR option; disabled debug in -!nnnn option |
| 19990707: | Fixed MIRROR option; added MIRROR message; added check |
| | on FindPhysicalDevice result |
| 19990817: | Added ability to spawn ExportConverters at the end of |
| 4000000 | SaveToDisk |
| 19990827: | Optimized read of slices: cache a DB to pass to GetFileName |
| 10001117 | (10% faster) |
| 19991117: | Added parameter FileCompressMode to in |
| 20000210. | nki_private_compress call |
| 20000318: | Added private command object 9999, 0300 = print to console Added private command object 9999, 0400 = force C-Echo to |
| | be 'silent' (no log). Display C-Move Destination; print time info |
| | about threads |
| 20000323: | Serious fix: MainThread 'hangs' when several associations |
| 20000323. | occur simultaneously, caused by compiler-optimization. |
| | Solution: DriverApp.Lock should be 'volatile'. |
| 20000329: | On request by ljz: designed crash of server if silent VR receives |
| _ | 'DEAD' |
| 20000501: | Compare dicom modality with UPPER-case ini-file setting |
| | (ExportConverters) |
| 20000621: | Initialize TroubleLogFile and UserLogFile; log C-STORE and |
| | C-MOVE |
| 20000703: | Logging of trouble now starts with '***' |
| 20000703: | Exclude archival messages from trouble log; removed force |
| | dcm code |

Added WINAPI to thread routines 20001104: Replaced malloc by new where a mix could occur (vr->data) 20001105: Made compilable for MSC and BC and WC using some #ifdefs Changed order of verification and store; better localized new/delete DDO more Run-time load odbcinst routine for BC and WC, use spawn... 20001106: i/s/o spawn... 20001106: Use delete [] operation for vr->Data 20010328: Added -av: verify mirror disk Added DeleteSeries, DeleteStudy and DeleteImage routines and 20010415: -f options Added -f options: -feFile = enter MAGN file into DB, -fdFile = 20010416: delete file from DB -faFile = add (also makes copy) file into server, -f?=ask UID of file, -fu = generate UID, -fcNEWPATID, file = modify patient ID of image file (moves file!). NOTE: -fc is irreversible in the sense that if a portion of a study/series is changed and changed back it winds up as a different study/series. This occurs because the UIDs must be changed for each image modification. This problem does not occur when a whole series or study is changed Simplified code to change uids to allow easy extension to 20010417: referenced SOPs. Check after load on common UIDs to avoid accepting dropped non-dicom files. NOTE: ChangeUIDinDDO should also change sequences and referenced SOPs (0008, 1155)Fix in above change 20010418: Changed names of database fields in UIDMODS - did not work 20010418: on MsAccess Added -fk option: copy image file to other patient ID (as -fc but 20010419: no delete). Added version number 1.3.9 to command line help 20010429: Added -fz option: zap file from server and database 20010430: Some work on read ahead thread: note that thread must not use any pointer copy! Made read ahead thread working; fixed thread counter; fix odbc 20010502: option: strings too short 20020506: Fixed handle leak in read ahead thread Fixed memory leak in read ahead thread; kbhit() test #ifdef 20020507: DO LEAK DETECTION Added RenameDevice is -ae option 20010509: Replaced parameter argv[0] of ExportConverters to proper 20010730: value. Added ExportStationName as export filter; default Export... 20010829: value set to "*"; Made export comparisons case insensitive; added special 'forward to AE' ExportConverter; Version to 1.3.10 20010831: Added extended syntax for exportconverters with %f=filename, %m=modality, %s=stationname, %b=file base name, %p=file path; Also allows 'copy %f destination', but for windows NT only (uses cmd.exe). Added ExportFilter option that uses an SQL statement to filter. 20010901: Added a simple queue to process exportconverters asynchroniously; Create a queue for each converter; queue mirror copy requests

| 20010902: | Added %o = SOP; %n = newline; added the following hard coded converters: append "text" to file; write "text" to file; copy |
|-----------|--|
| | file to file; copy file to dir |
| 20010904: | Re-entered change of 20010730 |
| 20010905: | Fix: After 'SaveToDisk', do not free pDDO |
| 20011109: | Fix: made ExportConverter stuff case insensitive |
| | Note: empty filter tests for empty contents - this is not the same as '*' |
| 20011110: | Note: in release 1.3.10, the "to "in e.g., write "%f%n" to file |
| | must be lowercase |
| 20011115: | Made "to" case insensitive; Added *** before some error messages for better logging. Removed cache db: would hang the server if SQL has gone down and up. Now use one DB per thread which is passed to the read ahead thread = fast too! |
| 20011207: | Added extra errormessage when creation of datasource fails |
| 20020109: | Disabled this code for watcom or borland (instead of run-time |
| | loading an address) |
| 20020314: | Implemented ignore of C-CANCEL request for ADAC NM |
| | (was error before). Blocked out SQLInstallerError call; does not compile on clinical MS4.2 |
| 20020413: | Added some notes about thread safety and db's: The serverchild |
| | is not thread safe when reading and writing is done on the same |
| | association. |
| 20020415: | Added -atDEVICE option: sanity check of images on disk; |
| 20020416 | version to 1.3.11 |
| 20020416: | Made UID generator configurable through UIDPrefix in |
| 20020422 | dicom.ini; made time print unsigned |
| 20020422: | Sleazy fix of ModifyPatID: time(null) created same UID: now wait 1 s per changed file |
| 20020426: | Generate filename no longer gives an error: is done at higher level |
| 20020428: | Only serious error messages use *** in message |
| 20020428: | Added FAILSAFE_STORAGE: tries to save incoming files |
| 20020420. | even when DB errors occur |
| 20020429: | Put SaveToDisk in myUnknownStorage: pass DB failures to |
| | caller; Disabled FAILSAFE_STORAGE: any storage failures |
| | should now be detected by client |
| 20020508: | Do not rewrite image not on MAG but it is not an error |
| | (warning is generated earlier) |
| 20020520: | Added -gSERVER,DATE option: grab images on date from |
| | remote server |
| 20020521: | fix displaying junk filename when rewriting image not on MAG |
| 20020522: | Fix in SetStringVR: strings must be padded with a space |
| 20020529: | -i and -r now have mode parameter (0=normal and default, |
| | 1=simple, e.g., for DBASEIII) |
| 20020531: | In 'QualifyOn', support case-sensitive call to 'GetACRNema', |
| | but make AE-Title uppercase after retrieving IP and port. |
| 20020613: | Better handling of Compression ON/OFF in 'SaveToDisk' |
| | Fixed crash in DeleteImageFile (twice free of VR->Data) |
| 20020613: | compress to specified mode, check (de)compress result, |
| | decompresses data before forward; added 'export compressed to |
| 2002002 | AE' export; -fa has optional ,NEWPATID syntax; |
| 20020802: | Simplified rmdir code and allow multiple subdirectories in rmdir and mkdir code. Version to 1.3.12 (unreleased) |

| 20020804: | Use PATHSEPCHAR where possible |
|-----------|---|
| 20020807: | Changed SaveToDisk order: only make patientdir when DB |
| | save succeeded |
| 20020812: | Added skeleton of printer support |
| 20020812: | * ** |
| | Added color imagebox; Save incoming print DDO as file |
| 20020819: | UIDs of imageboxes end on rows.cols.position for easy print |
| | handling |
| 20020819: | Fix in delete unexistent mirror files for changepatientUID |
| | Extract pixel data from sequence in ImageBox; added sleep(10) |
| | in -fk option |
| 20020819: | Added better UID generation (but gets close to 64 chars) |
| 20020821: | Fix printer UID generation; display page orientation and film #; |
| 20020021. | shorter info |
| 20021016: | |
| 20021016. | Added (indexed) patid to exportfilter query and getfilename for |
| | speed; The option tests for rev5 db or higher; increase 64 |
| | strings to 66; Note: GrabImagesFromServer option does not yet |
| | pass patid to the query (i.e., will be slow with non-odbc driver) |
| 20021017: | Control NeedPack from here; added -c option: set UID counter |
| | at startup. Removed Sleep from anonimize options; do not re- |
| | create UIDMODS |
| 20021018: | Pass NoKill through GenerateFilename for interactive DGATE |
| 20021028: | Fix query on study in PatientStudyOnlyQuery (did an image |
| 20021020. | query) |
| 20021105: | Revamped read-ahead thread logic to try fix rare crash where |
| 20021103. | ratd->DDOOutPtr became NULL |
| 20021115: | |
| 20021113. | Use Generic style retrieve classes with NKIqrsop code instead |
| | of older qrsop code. Advantages: read ahead thread used, and |
| | allows print of error messages from C-MOVE. Required |
| | changes such that ratd->pcdo can be NULL. |
| 20021121: | Disabled read-ahead thread for time being |
| 20021212: | Also loop ServerApp.Server(Port) in threaded mode server |
| 20021213: | Re-entered fix by Hanne Kooy: compressed forwarding had |
| | extra; |
| 20021213: | Re-enabled use of generic query classes with read-ahead thread; |
| 20021213. | but made read-ahead thread configurable with |
| | - |
| | "EnableReadAheadThread". Made grab query faster by |
| 20021217 | including date - note grab is independent of FixPhilips |
| 20021215: | Found read-ahead thread problem reported by Aaron Cann - |
| | missing Sleep in wait for slices |
| 20021223: | Version to 1.4.1 pre-release; added in dgatefn forbidden |
| | filename chars suggest by Thomas Buerer |
| 20030113: | Removed loop ServerApp.Server(Port): gave endless loop error |
| | messages |
| 20030120: | Added cleanup-code when DO LEAK DETECTION is |
| | defined for easy leak checking |
| 20030205: | Fix bug found by Frank-Andre Siebert: read ahead thread |
| 20030203. | |
| | crashed when ID or SOP is missing. Also fix 2 other potential |
| | missing VR problems |
| 20030228: | Fixed bug reported by Jeff Babcock: series retrieve from E-film |
| | crashed (patid not passed) |
| 20030424: | Changed calls to obsolete PDU.Write(&DDO). In 'SaveToDisk' |
| | the call to PDU.SaveDICOMDataObject now has parameter |
| | DICOM_CHAPTER_10_EXPLICIT (which writes IMPLICIT |
| | files if not compressed) |
| | |

| 20030606: | Fixed incremental counter when creating UIDs or generating filenames Fix: QueryRetrieveLevel is mandatory for a |
|-------------------|---|
| | QueryResponse |
| 20030625: | Fix NGET of BasicPrinterSOPClass |
| 20030625: | Fix in above fix |
| 20030627: | Adapted for MSC4.2; Finally really fix NGET of |
| 20020620. | BasicPrinterSOPClass (wrong UID used) |
| 20030629: | Added -nd, -nc, -jd and -jc options: (de)compress NKI; (de)compress JPEG (used OFFIS executables) |
| 20030630: | Started on compression for dropped, incoming, transmitted; |
| 20030030. | NKI vr 0x9999,0x700=custom compression. Added 'forward compressed as xx to' |
| 20030701: | QualifyOn now also has compression parameter |
| 20030701: | Moved compression code to nkiqrsop; dgate -j-xx and -j*xx = |
| 20030703. | test compression options. Removed "forward compressed to" |
| | because "forward compressed as to" is better. Note that |
| | FileCompressMode is now obsolete. KNOWN BUG: JPEG |
| | compressed images may be rewritten as V2 (when written |
| | originally as NKI) which are then not correctly read. |
| 20030704: | Made that FileCompressMode parameter still works even |
| | though is obsolete. Moved faulty delete DDO after |
| | SOPUnknownStorage.Read |
| 20030705: | Added check of Tranfer Syntax next to extension for save type; |
| • • • • • • • • • | ProcessDDO takes **DDO |
| 20030706: | Use dgate.dic; Attach VRType to PDU's for implicit little |
| 20020700 | endian support; small fix in dump code |
| 20030709: | Printer support fix; version to 1.4.2; Added SendUpperCaseAE |
| 20030730: | parameter (default 0) Force ImplicitLittleEndian, ExplicitLittleEndian and |
| 20030730. | ExplicitBigEndian objects that must be stored in Chapter10 |
| | format, to ImplicitLittleEndian. |
| 20030815: | Version to 1.4.3 |
| 20030905: | Allow longer filenames |
| 20030910: | Added check on rights to write (trouble) log file and |
| | printer_files in MAG0 |
| 20030921: | Allow write to any MIRROR if MAG is full; added -ff# option: |
| | delete until # MB free |
| 20030922: | Added StorageFailedErrorCode (default 0x110 = 272 decimal = |
| | failed processing) |
| | Added ExportCallingAE and ExportCalledAE export filters |
| 20020401 | (also %u=SCU, %c=calledAE in converter) |
| 20030401: | Version to 1.4.4; pass status pointer to compress routines |
| 20040402: | Delete DDOptr when SaveToDisk cannot write but does not give an error; Added "Cannot rewrite jpeg/rle image in v2 |
| | format" check; Use system DSN for ODBC (easier login) |
| 20040406: | Always use EXPLICIT syntax for jpeg, fix v2 always use |
| 200 10 100. | DUMP |
| 20040426: | Version to 1.4.4a |
| 20040520: | Version to 1.4.4b |
| 20040523: | Added patient ID to speed GetFileName for single slice move |
| 20040528: | Set NeedPack (controls DbaseIII indexing) for regen, archive, |
| | maintenance; Version to 1.4.4c |
| 20040528: | Added built-in maintenance commands through silent VR in |
| | ECHO; pass patid in DeleteImageFile |
| | |

| 20040530: | extract (DBF only) to database like XDicomImages in same |
|-----------|--|
| | directory; Version to 1.4.5 |
| 20040601: | Added deletestudy, deleteseries and packdbf maintenance |
| | commands |
| 20040602: | Fix: 'forward compressed as' always failed |
| 20040605: | packdbf maintenance command sets NeedPack to 3: forces pack |
| 20040606: | fix rewrite to not MAG (JUKEBOX) was NOT ignored |
| 20040607: | Merged fix ljz 20040602; do not allow rename and delete with |
| | empty name |
| 20040610: | Added maintenance server tasks for archival and regeneration |
| 20040612: | Added indexdbf maintenance server task |
| 20040614: | dgate command line maintenance options use NeedPack=5: |
| 2001001 | non-threaded index generation. Added -am option: move(all) |
| | device data; for selected data use -amMAG0.Archiving,MAG1 |
| 20040624: | Version to 1.4.5a |
| 20040626: | Pass study and series UID to getfilename; version to 1.4.5b; |
| 20010020. | Fixed leak of pats array |
| 20040713: | Version to 1.4.6 |
| 20040713. | Fix in C-MOVE for single file (from jlz); version to 1.4.6b |
| 20040803. | Increased length of ExportFilter (was 64, now 510) |
| 20040909. | • |
| 20041020. | Added mergeseries(file) and mergestudy(file) maintenance |
| 20041101: | commands, silenttext to 1024 |
| 20041101. | Added deletesopfromdb maintenance command; version to 1.4.7 |
| 20041103: | |
| | called, e.g., AE~nj overrides IncomingCompression to nj |
| 20041108: | Added \$c test compression mode (alt-drop files with \$c as |
| 20041100. | patient ID tests compression modes) |
| 20041109: | Added \$tSERVER test compressed forward; some fixes in |
| | forward compressed to (server name read wrong) |
| 20041112 | \$s tests all filename syntaxes |
| 20041112: | Added \$rN N times repeated entry test, and \$tN which enters |
| 20041120 | image N time each on its own thread |
| 20041128: | Added -^file: log to file (timestamped) instead of to server |
| 20041120 | console; -#file: same with debug |
| 20041129: | Added silent commands debuglog_on and log_on to set logging |
| | to UDP or file; Added silent command read_amap to re-read |
| | acrnema.map without restarting the server |
| 20050102: | Small modifications to allow compile through total.cxx |
| 20050107: | Added code to hold and retry queued forwards and mirror |
| | copies when failed: After failed export/copy, start storing |
| | entries in file ExportFailuresN (CopyFailures). If a new export/ |
| | copy is requested >1 minute after last failed one, try again; if |
| | queue is empty, >100 seconds after last fail, try export/copy |
| | stored ones. Processing queued entries has priority over |
| | processing stored entries. |
| 20050107: | Version to 1.4.8; modifications for linux compile |
| 20050108: | Added server PORT# to fail files, so that multiple servers on |
| | different ports do not share files |
| 20050109: | Added configurable TCPIPTimeOut, FailHoldOff, RetryDelay |
| | and QueueSize |
| 20050109: | Adapted thread code for linux; still need to implement |
| | WaitForSingleObject |
| 20050111: | Added ctype.h (for mingw) |

Linux: crudely implemented WaitForSingleObject; detach 20050118: pthreads to avoid leaks; crudely implemented export converter apps 20050119: Added grabimagesfromserver, regendir and makespace server commands; dgate -- sends server commands to other running server; adapted manual 20050121: Small updates to manual Replaced BackGroundExec with simpler system() for Linux: 20050124: added query server command, e.g., dgate "-query:DICOMpatients|patientid,patientname,patientsex| patientsex='F'|%s %s %s|t.t"; Added read ini: server command to reread dicom.ini; changes most config except: TCPPort (busy), UseBuiltInDecompressor (cached) and FileNameSyntax (cached) added get param, get freestore, get amap, get sqldef that 20050130: respond through echo-response; also: get sop, get transfer, get application, get localae, get remoteae, get dic, forward. added: dump header (to file), convert to gif (to file); adapted query (to file) where file="cgi" for stdout in cgi/mime mode, file="" to send to stdout as is; most GUI commands can now pass PatientID|SOPInstanceUID instead of filename of dicom object; added put amap, write amap, put sop, put transfer, put application, put localae, put remoteae, put param. Note: get/put param work through disk (read ini activates), get/put amap through memory (write amap writes to disk), get/ put sop etc read from memory and write to mem and disk. Added delete param, delete amap and fix cgi out (double \n) 20050204: 20050204: most GUI commands can now pass PatientID|? *:SOPInstanceUID; added delete sop etc commands More fixes in cgi data passing VR vr() is mostly wrong; use VR *vr=new VR() 20050205: Allow up to 16 output fields in query:, repeat queried fields over all 16 outputs. Added counters for server status; start on display status server command More work at display status, renamed testtable to xtesttable: 20050206: default not opened. Access ObjectFile and DeviceName through query instead of with GetFileName up to 3 x faster!! Also fixes potential leak in read ahead thread: pats, series and studies not always freed. Allow up to 32 cgi query outputs, tidied dump layout, start on web interface (put dgate and ini in cgi-bin) Added query2 option: limits number of output rows as asked; 20050207: gui command not counted as association. Some more work for web interface 20050210: Adapted web interface queries such that they run on sql server 20050212: Removed need for thread local storage; automatically adapt dgate extension in cgi scripts depending in OS 20050213: Added more parameters to server configuration web page 20050214: Added update button to server config (updateconfig page to be implemented) Fix in LoadForGUI: Drag 'n' drop of files in the server did not 20050215: work anymore. Fixed dgate crash in case of failure in 'recompress()' (pDDO=NULL when OFFIS failes). Merged

| 20050327: | Added rudimentary gz unzip support for dropped files (uses 7za.exe) |
|--------------------|---|
| 20050401: | Start on Modality WorkList Support |
| 20050404: | List End/Start sequence db types (only supported for worklist) |
| 20050411: | Fix incorrect space after filename and device in C-MOVE internal query |
| 20050414: | Added addrecord server command: for now only option to enterworklist entries |
| 20050603: | Fix servercommand query(2) for empty where part |
| 20050805: | Fix web interface queries for sql server (were OK for dbase) |
| 20050826: | More work on web interface and added worklist there; deleterecord command |
| 20050827: | Fixes in addrecord and query commands, |
| | editworklist,saveworklist,deleteworklist |
| 20050829: | More fixes in web interface, disable caching for most/all? of it |
| 20050831: | Allow command line length of up to 4096, allow edit all worklist database fields |
| 20050901: | Removed invalid cache-control: cache; added |
| | WorkListMode:0= off, 1=optional, 2=compulsory |
| 20050902: | Read db config for worklist edit page in web interface; use generic webpages for db edit. Added HL7Tag in DumpDD |
| 20050903: | Added 'simple' loadhl7: server task implementation and HL7->DICOM translation. Also addimagefile will enter HL7 files |
| | into the server, i.e., drag and drop works |
| 20050004. | Fix some web queries for sql server with denormalized tables |
| 20050904: | Some more tweaks to hl7 code; max query formats to 48; max format to 8192 |
| 20050905: | Auto split HL7 subfields and repeats without using a list |
| 20050907: | Merged change by Hans-Peter Hellemann: fixes extension problem for linux web interface for some browsers |
| 20050908: | Protect convert_to_gif when file not found |
| 20051121: | Recompute SQLResultLength because it does not work in PostGres BindField |
| 20051123: | put in #ifdef POSTGRES |
| 20051208: | put in #if 0 (fixed in odbci.cpp); start on virtual server: will grab images from other server as needed in read-ahead thread: when in db but not on disk; for now use R.A.T also for single image access to avoid code duplication |
| 20051209: | Start on virtual query: image (!) query is passed to other server, results populate db |
| 20051210: | Added "vX" incoming compression (stores dbf but not image; forwarding disabled). Added virtual queries on all queries and moves: now works as transparant file cache. Added |
| | VirtualServerFor09 configuration entries: server merges own data with these AE's. Added CacheVirtualData control; if set data not deleted after use (db kept for now) |
| 20051211: | Fix: override query level in virtual query |
| 20051212: | Store virtual server # in device; saved on query, used when retrieving, stripped when storing |
| 20051214: | Use different sleep lenghts under linux - not all sleep(0); small |
| 200 <i>3</i> 1217. | fix in virtual server |
| 20051215: | Implemented a linux version of Sleep using nanosleep |
| 20051217: | Use new VR::ReAlloc method to replace data in VR; added quit: command |
| | |

| 20051218: | Use Replace VR instead of Push in anonymize etc; also changes |
|-------------------|--|
| | in sequences. Version to 1.4.10; show version and exe date in |
| | startup log. Do not start mirror copy queue unless it is needed; |
| | show some thread startup info. Added $-b = NOTHREAD$: run |
| | server as single process, useful for debugging and profiling. |
| | Fixed doc ofregendir: command |
| 20051219: | Fixed several small leaks - as tested with Linux malloc stats |
| 20051222: | Started on bypass server for virtual query - not functional yet |
| | (cleanup required) |
| | Removed debugVR logic: errors should now list DCO |
| 20051228: | Fix virtual device logic for VirtualServerFor0; |
| 20031220. | Cleanup vr's and duplicates when bypassing server for virtual |
| | query, seems functional |
| 20051229: | NonDestructiveDumpDICOMObject now also list sequences; |
| 20031229. | 1 0 |
| | DebugLevel>0 lists DCO, >1 lists query DDO; fixed leaks in |
| 20051220. | virtual query and some others |
| 20051230: | Addeddebuglevel: command, small fix in |
| 20060102 | NonDestructiveDumpDICOMObject |
| 20060103: | Small fix in virtual query; disabled virtual query for worklist; |
| 00000100 | debuglevel 3 shows some query results |
| 20060123: | Added patient/study/seriesfinder (server parameter ignored for |
| | now, later for virtual servers etc) |
| 20060125: | Added serieslister (server parameter ignored for now, later for |
| | virtual servers etc) |
| 20060128: | Renamed to imagelister, added serieslister |
| 20060131: | Sort filenames from imagelister on ImageNumber (0020,0013) |
| 20060226: | Version to 1.4.11 |
| 20060228: | Small fix in isxdigit thanks to ljz |
| 20060311: | Use ReplaceVR in virtual query - level was sent twice (thanks |
| | David Lang) |
| | Added WEBReadOnly flag |
| 20060317: | Support calledae and callingae in filenamesyntax - for |
| | virtualquery called is always MYACRNEMA |
| 20060324: | Strip group 2 from outgoing c-stores if not compression "as" or |
| | "is" |
| 20060328: | Improved forwarder, always propose Verification and use |
| | IsAbstractSyntaxAccepted(iUID) to test if host accepts image |
| 20060402: | Fix hang condition when a file failed to read in the read-ahead |
| | thread |
| 20060402: | Do not remove transfer syntax prior to dcmdjpeg/dcmcjpeg |
| | (here in test recompress only) |
| 20060405: | Tried fix for multiple moves on same assoc (thanks Andrej |
| | Savelov) |
| 20060405: | Added message when IOD fails to read |
| 20060603: | Fix crash when started as dgate -v: empty statbuf |
| 20060607: | Finally fixed multiple moves on same assoc (thanks Andrej |
| | Savelov and Fred Röhner) |
| 20060618: | Renamed dfilecopy and define ODBC_ADD_SYS_DSN if |
| | needed |
| 20060619: | Set version to 1.4.12alpha1 |
| 20060621: | Added clonedb: command; transfer FULL db from other server |
| 20000021. | to this one using virtual query |
| 20060628: | AddToDatabase has JustAdd parameter: skip one unnecessary |
| 2 0000020. | radio Database has sustrial parameter, skip one unifecessary |

query

| 20060/01: | Speeded filter string handling |
|-----------|---|
| 20060702: | Pass DB to GenerateFilename to avoid zillions of db open and |
| 20060704 | closes |
| 20060704: | Print number of records found in all queries |
| 20060708: | Set version to 1.4.12alpha |
| 20061126: | Moved servertask temporary files to MAG0/printer_files; |
| 20061126 | protected query: and query2 against empty input |
| 20061126: | Experimental forwarding on same association: close unused |
| | association after 5 seconds. Clean collected sopclasses after one |
| | hour of inactivity. Note 1: there is a problem with AReleaseRQ: |
| | do not use in this task; Note 2: maximal 20 forwarders have a |
| 20061127: | remaining association |
| 20061127. | Added ForwardAssociationLevel (PATIENT, SERIES, STUDY, IMAGE, SOPCLASS; default STUDY), |
| | ForwardAssociationRefreshDelay (default 3600 s), and |
| | ForwardAssociationCloseDelay (default 5 s). |
| | Limit maximum number of ExportConverters to |
| | MAXExportConverters=20 (for static arrays used in |
| | forwarders). Forwarders keep association open as long as UID |
| | at ForwardAssociationLevel does not change. Show filename in |
| | forward log; document where fixkodak should operate for |
| | virtual queries |
| 20061128: | Added ForwardAssociationLevel GLOBAL: use association |
| | until timout or incompatible |
| | Close ForwardAssociation after send when |
| | ForwardAssociationLevel is IMAGE |
| 20061129: | VirtualServerForN may be "server,FIXKODAK" to clean |
| | queries (add 0) and their response (remove 0) |
| | Hardcoded filters for exportconverters (modality, called, |
| | calling, station) can now match e.g., RT* |
| 20061130: | Pass series and study in virtualserver outgoing c-move |
| 20061213: | Fixed nasty bug in query2 and TestFilter: Query without |
| | bindfield overwrites previous bound strings! |
| Maybe | was problem causing crash on linux with query2: and problem |
| 20061210 | with option -g reportedly stopping incorrectly |
| 20061219: | Version to 1.4.12 |
| 20061231: | Added ForwardAssociationRelease to allow testing reconnect |
| 20070102. | problem (default 0 = just hangup) Fig. V. adal. blooks *veryer wild and virtual granies on data (not |
| 20070103: | FixKodak blocks *xxxx wildcard virtual queries on date (not allowed in Kodak) |
| 20070103: | Version to 1.4.12b; start on ImportConverters e.g., <set< td=""></set<> |
| 20070103. | 0008,1040 to "%V0008,0080"> |
| 20070104: | ImportConverters %QP %QS %QE %QW; <destroy> <delete< td=""></delete<></destroy> |
| 20070101. | xxxx,yyyy> <save filename="" to=""></save> |
| | Added %% and %i to Export and Import converters |
| 20070105: | <pre><set ""="" 0008,1040="" if="">, <setifempty ""="" 0008,1040="" to="">,</setifempty></set></pre> |
| 20070100. | <pre><setifempty ""="" 0008,1040="" if=""></setifempty></pre> |
| | Import/export converters only report when syntax OK and |
| | report when action is void |
| | Added %Vxxxx,yyyy to export converters and %d(date/time) to |
| | import and export converters |
| | An import/export converter can thus be used to extensively log |
| | incoming images |

| | Added import converters: <stop>, <11 "string">, <11empty</stop> |
|---------------|--|
| | "string">, <nop> (also export)</nop> |
| | Added general purpose variables x, y, z (read as %x, %y, %z) |
| | to import converters; Definition of number of ImportConverters |
| | now unnecessary. Note: importconverter and exportconverter |
| | strings may be changed run-time in dicom.ini |
| 20070105: | Some fixes in dgatearchiving options manual; fixed dgate |
| | restoremagflags: |
| 20070107: | Fix web access broken by change in odbci for dbaseIII; query |
| 20070107. | must now always include spaces around = |
| 20070113: | Do not store NKI compressed data in v2 format: decompress |
| 20070113. | and give error message |
| | Recompress to NKI format now enables StripGroup2; Tested |
| | with \$c server debug command |
| 20070117: | Allow multiple rules per Export or ImportConverter separated |
| 20070117. | by; and zero or more spaces |
| | <nop> statement prints itself on console: useful for logging</nop> |
| | anything that follows |
| 20070117: | Now maintain multiple connections per ExportConverter line |
| 200/011/. | (max 20x20 forwards); Added <stop>, <silentstop>, <if> and</if></silentstop></stop> |
| | <pre><ifempty> to ExportConverters; but they only affect single rule</ifempty></pre> |
| | (while these would cross over to the subsequent rules in |
| | ImportConverters) |
| 20070122: | Now also show free space on mirror devices |
| 20070122: | Fixed TestFilter for patientid with ' |
| 20070125: | Removed <if> and added <ifnotempty>, <ifequal>,</ifequal></ifnotempty></if> |
| 20070125. | <pre><ifnotequal>, <ifmatch>, <ifnotmatch>,</ifnotmatch></ifmatch></ifnotequal></pre> |
| | <pre><imotequal>, <imutellar ,="" ,<="" <imutellar="" td=""></imutellar></imotequal></pre> |
| | as im/exportconverters |
| | Added %xxx[first,last] substring operator; and protect it against |
| | overrange |
| | <pre><ifxxx> no longer crosses over importconverters; added {}</ifxxx></pre> |
| | block for im/exportconverters |
| | E.g.: ifequal "%V0008,0020[0,3]", "2004"; { forward to |
| | CONQUESTSRV3; forward to CONQUESTSRV4; } nop test |
| | Note: 1) all (also ifxxxx) statements end with; 2) statements |
| | may begin with { or }; |
| | 3) extra spaces only allowed after ;{} and single space after , |
| 20070127: | Fix {} in exportconverters. Release 1.4.12b to fix more or less |
| 200/012/. | critical odbci error |
| 20070131: | Fix in TestFilter (quotes double); Version to 1.4.12c |
| 20070131. | Added <storage magn=""> import converter: sets device to store</storage> |
| 20070201. | this (new) image to (default MAG0). Fixed importconverters |
| | stop and destroy: did not break current line |
| 20070204: | Added extra format starting with # to ImageFileLister: e.g. # |
| 20070204. | |
| 20070206 | %s:%s prints MAG0:filename |
| 20070206: | Added create database: dgate -esapw name user password |
| 20070207: | Fix query string bug on applyworklist found by capolan1 |
| 20070207: | dgate -e name root <blank> works for mysql: root is used as</blank> |
| | admin and login |
| | Also implemented dgate -esapw name sa sapw where sapw may be empty |
| 20070210: | Added CheckDuplicates to UpdateOrAddToTable; added @ in |
| ∠UU / U∠ I U. | |
| | imagefilelister: replace \ by / |

| | Start on ocx based viewer integrated in cgi interface; used dicom over http: |
|-----------|--|
| 20070211: | Small change in gif export; added * as separator in query/2 Added WebScriptAddress (default http://server/cgi-bin/dgate), WebMAG0Address (defaults http://server/mag0) |
| | and WebServerFor (default 127.0.0.1). Fix in cgi query parser: |
| | now loads dsize and size correctly |
| | Version to 1.4.12d |
| 20070212: | Added WebCodeBase, show version in status display, added |
| | config of which dicom server the web server connects to, added [webdefaults] section, added iconsize parameter |
| 20070213: | Added: as format in imagefilelister: use to list pat:sopuid |
| | Fixed sorting problem by using adapted imagefilelister for |
| | seriesviewer; Fixed default for WebCodebase; Version to |
| | 1.4.12e; Use correct case of sql table names in cgi interface: |
| | required by mysql on linux; Unsolved: n3 does not always |
| | decompress correctly in dview.pas see p20401977:i47, changed |
| | default to n4 |
| 20070215: | Fixed logging and added *** Association rejected message when association is rejected |
| 20070304: | Added <defer> exportconverter: retry later as if connection</defer> |
| 20070304. | unavailable |
| 20070305: | Note: n3 problem fixed in dview.pas, version to 1.4.13alpha; |
| 20070302. | Allow merging of up to 1000 UIDs: set SilentText to 64000 and |
| | *uids[1000] (thanks mp); Allow named pipes for log_on and |
| | debuglog on |
| 20070307: | Work on extending extract: allow e.g. SQlite -> dbaseIII |
| 20070308: | Made changes for big endian and Apple's DARWIN |
| 20070314: | Finished extract: allow e.g. SQlite -> dbaseIII in directory |
| | MAGO dbase |
| 20070315: | Merged DARWIN stuff; Set TCPIPTimeOut for PDU that |
| | moves images |
| 20070316: | Display defer import converter; Clumsily added <compression></compression> |
| | import converter and improved <storage> import converter;</storage> |
| | Made <storage> thread safe. Failed recompress() no longer</storage> |
| | reason to fail drag and drop; add convert_to_bmp. Use instead |
| | of, to separate patientid from file in addimagefile: |
| | Distributed, code to each of the server commands to make it |
| | more, safe. Note: it is NOT a good idea to use a, in a flexible |
| | filenamesyntax. Added level & window to convert_to_gif and |
| | convert_to_bmp; longer log lines for dump VR |
| 20070317: | <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre> |
| | into_queue_unique, <pre>oreforward>, <pre>oreget></pre></pre> |
| 20070324: | preget now <pre></pre> |
| | orgmessageid!=0xfbad I.e., data collected by <pre><pre><pre></pre></pre></pre> |
| | does not go through import/exportconverters. Added delayed |
| | exportconverters <forward patient="">, <forward study="">, <forward< td=""></forward<></forward></forward> |
| | series> with optional compression |
| | Removed "forward compressed to" (without as section) as is |
| 20070226. | never used. Version to 1.4.13beta; delay to 10 minutes |
| 20070326: | Fixed leak in <forward patient=""> etc. preretrieve also checking</forward> |
| 20070330: | orgmoveae Change by Mark Pearson: read dicom.ini from same dir as exe |
| 4007033U. | in unix mode; merged more Darwin stuff. Also taken over bcb's |

| 20070404: | fix for the finder: studymodality was asked at patient level. Also put in a more ENxxxx as command and messageid Added CommaInFilenameWorkAround() |
|-----------|--|
| 20070407: | Use reentrant ctime_r when available; moved static SOPPatientRootQuery etc to stack to fix reentrancy problem: |
| | concurrent outgoing c-move of CT and MRI on different |
| | associations would share PDU causing sopclass not accepted on |
| | one. Also seems to reduce linux crash problems on multiple |
| | inbound (4 or more) C-stores. Also moved CreateBasicFilmSessionRequest etc to fix potential reentrance |
| | problem for printing. |
| 20070410: | Merged CommaInFilenameWorkAround() |
| 20070413: | "extract:" will just create dbase III clone of full patient DB; |
| 20070113. | added "prefetch" server command |
| 20070415: | Added Prefetcher option to dicom.ini: is set will aggresively |
| | preread queried patient or studies |
| 20070416: | Prefetcher prints more information; use windows calls in |
| | windows for faster preread |
| 20070705: | extract: uses DT_DBASEIIINOINDEX to disable indexing and |
| | packing when extracting from e.g. sqlite to dbaseiii |
| | Note: extract: non dbaseIII goes to MAG0\dbase, dbaseIII goes |
| | to DataSource |
| 20070706: | Added <between "17"="" "9",=""> (9:00 to 16:59) or <between "17",<="" td=""></between></between> |
| 20070700. | "9"> (17:00 to 08:59) import/exportconverter |
| 20070709: | Fixed print of clone db done |
| 20070720: | Fixed problem where waiting "forward to " task caused high CPU load |
| 20070901: | Added dgatechecklargestmalloc: |
| 20071027: | Added ForwardCollectDelay for delayed forwarding (default |
| | 600 sec) |
| 20071030: | Fill in called and calling AE for SaveToDisk for e.g., dropped |
| | files etc. Fix %u and %c in Export and ImportConverters: |
| | called and calling AE. Log flow control Export and |
| | ImportConverters only in debug mode. Added retrying to |
| 20071102: | delayed forwards or prefetches SetDicomErrorHandler: orderly shutdown of server on serious |
| 200/1102. | DICOM library errors. Fixed a bug in |
| | ForwardAssociationLevel: last UID was lost when reading INI |
| | file to szTemp. Added MaximumExportRetries and |
| | MaximumDelayedFetchForwardRetries (default=0 is no |
| | maximum) |
| 20071103: | Version to 1.4.13; defer resets queue fails -> keeps on retrying |
| 20071104: | Use local as AE for imagelister in web page instead of |
| | CONQUESTSRV1; Enable remote servers (use AE instead of |
| | 'local') in finder and lister commands; Fix crash when dgate |
| | option gets empty filename: now lists to stdout |
| 20071114: | Putchecklargestmalloc: in dgate -? |
| 20071118: | Adapted for 64 bits (use SQLLEN for BindField) |
| 20071120: | Fixed KodakFixer for empty patient ID (crashed on 64 bits |
| | only). Added [modality xx] and [date yyyymmdd-yyyymmdd] |
| 20071121. | clauses to export [patient study series] to AE |
| 20071121: | Added %V*GGGG,EEEE: search VR in any sequence; version to 1.4.13a; Added [now -ddd+ddd] and [age -ddd+ddd] clauses |

| | to export [patient study series] to AE. No retry on remote dicom |
|---------------------------------------|---|
| | error in forward xxx to: would retry zero records response |
| | Use study date for data, age and now clauses |
| 20071123: | Made forward command case insensitive; added forward image; |
| | added get [patient study series image] from AE. The latter |
| | option makes preretrieve obsolete |
| 20071124: | Added [sop xxx] clause to [forward get]. Reorganized |
| | exportconverter code: all converters now do % substitution; |
| | reduced code duplication. Added reading of sequence items like |
| | in %V/300c,0060.0/0008,1155 or %V/300c,0060/0008,1155; |
| | Real life example (must all be one one line, max 512 |
| | characters): |
| | ifnotequal "%m", "RTPLAN"; stop; |
| | nop "tests modality = RTPLAN"; |
| | ifnotequal "%V*300a,00b2[0,1]", "A2"; stop; |
| | nop "test machine name = A2"; |
| | forward to XVI_A2; |
| | nop "forwards the current recieved RTPLAN"; |
| | get study modality CT from NKIPACS; |
| | nop "collects associated CT"; |
| | get study modality RTSTRUCT sop V/300c,0060.0/0008,1155 |
| | from NKIPACS; |
| | nop "collects associated RTSTRUCT"; |
| | forward study modality CT imagetype *AXIAL* to XVI_A2; |
| | nop "forwards associated CT"; |
| | forward study modality RTSTRUCT sop |
| | %V/300c,0060.0/0008,1155 to XVI_A2; |
| 20071125 | nop "forwards associated RTSTUCT"; |
| 20071125: | Fixed syntax for %V/gggg,eeee.i/*gggg,eeee (search all groups |
| 20071126. | under a specified one) Start on Start and Commitment (unfinished) |
| 20071126: 20080103: | Start on StorageCommitment (unfinished) |
| 20080103. | Switched to ms7 compiler; fixed forward and get date, |
| 20090107. | modality, sop filters: would not supress the UIDs |
| 20080107: | Fixed malformed web viewer header: worked for IE but not for |
| | other browsers. Check presence of dicom.sql in web pages that need it. Deal with spaces in patient IDs in web pages |
| 20090126. | Check presence of dgate.dic when starting server |
| 20080126: 20080129: | Fix KodakFixer: wrote one byte outside VR data (pr) |
| 20080129. | Added [imagetype xxxx] clause to [forward get] (pr) |
| 20080127. | Small fix in above |
| 20080130: | Added experimental PadAEWithZeros flag; version to |
| 20000203. | 1.4.14alpha |
| 20080210: | Added experimental IgnoreOutOfMemoryErrors; |
| | "delete [patient study series image] [date yyyymmdd- |
| 110000 | yyyymmdd] [now -ddd+ddd] [age -ddd+ddd] |
| | [modality mm] [sop xxxx] [imagetype xxxx]" export converter |
| 20080221: | Added [seriesdesc xxxxx] filter and "process [patient study |
| 20000221. | series image [by command]" |
| 20080222: | Small fix in imagetype filter code; process by clause not part of |
| · · · · · · · · · · · · · · · · · · · | unique check |
| 20080302: | Fixed case of DICOM table names |
| 20080316: | Added dgatedeletestudies:date(range) and dgate |
| | movepatient/study/studies/series |
| | |

| 20080318: | Added [series xxxx] and [study xxxxx] filters; work on web pagedeleteseries/study andmoveseries/study allow |
|-----------|---|
| | patid:uid as parameter; Web interface can now push and delete |
| | on series and study level, but delete is disabled in readonly web |
| | interface; Version to 1.4.14beta |
| 20080319: | Delete in browsers fixed?; added %v(desc)desc: search VR in |
| | given sop of same patient. Example: |
| | %V(/300c,0060/0008,1155)/3006,0010/3006,0012/3006,0014/0 |
| | 020,000e Gives referenced CT series UID in referenced |
| | structure set from forwarded RTPLAN |
| 20080321: | Fixes in browser; added graphic web setting; may be gif or bmp |
| | for now; Fix %V for non-existing items |
| 20080322: | Added dgateanonymize that uses general scripting |
| 20080323: | Small fix in (local) for DcmMove: overwrote destination |
| 20080404: | Fixes in series and study filter (rethink naming); added value* |
| | match for in match() routine |
| 20080618: | Added extra logging in IARQ() |
| 20080620: | Only show extra logging in IARQ when assoc rejected |
| 20080816: | IARQ shows which sops are accepted; and differentiates no sop |
| 20000017 | from connection terminated |
| 20080817: | Small layout fixes; <pre>crocess with> import converter; show</pre> |
| | PDU length in log. Check saving of file succeeded (thanks Jeff |
| 20080819: | Bellamy and Alberto Smulders) |
| 20060619. | Added experimental DT_MSTR: multi-value entry, e.g. query on 'PET' matches 'PET\CT' |
| 20080819: | addedget_ini_param (same as get_param) and get_ini_num to |
| | list parameter by index |
| 20080819: | Added get_ini to list all parameters in DICOM.INI |
| 20080819: | Added code by map but kept original get_param for old web cgi |
| | client compatibility; Version to 1.4.14 |
| 20080820: | Solaris 10 fixes, and general UNIX fixes (map): configfiles may |
| 20000021 | not be in current dir |
| 20080821: | Default of ForwardAssociationRelease to 1; added sleep export converter |
| 20080823: | Added study UID search to PatientStudyFinder; fixed |
| 20000023. | DcmMove: would call local when remote addressed; Added |
| | rudimentary query/move web pages |
| 20080825: | query/move looks better; added "thumbs" column to local series |
| | lister; config patched to readonly; added background color and |
| | display of icon (to be placed in WebCodeBase) |
| 20080826: | One more fix in DcmMove, still called wrong server sometimes |
| | Do not use 0xfbad as message ID for DcmMove from web |
| | page; webreadonly defaults to true; CGI viewer configurable: |
| | seriesviewer, seriesviewer2, noviewer, aiviewer |
| 20080827: | Added slice number and repeat output data in ImagefileLister |
| | and SeriesUIDLister for more flexible formatting; Added |
| | flexviewer: reads code from dicom.ini in web server directory |
| 20080831: | Translate yyyy and yyyymm to date range in finder; further only |
| | accept valid date and date ranges; Added dgateget_amaps: |
| | lists all non wildcard entries from acrnema.map; Fixed handling |
| | of patient ID with spaces in ImageFileLister mode :; All |
| | undefined cgi modes can come from the cgi dicom.ini; added |
| | special and cgi script variables; Lines can start with to start |
| | dgate, with # as comment, any other passed as HTML; Added |

| | source parameter: flex pages can be read from script file; Added serversideviewer: requires javascript only, nothing to |
|-----------|---|
| | install |
| 20080901: | Fixed some leaks in printing andcommands; fixedget_ini: formatting |
| 20080902: | Added header option for web scripts; added some CGI environment variables |
| 20080905: | Made new changes for big endian and undid some old ones. |
| 20080908: | Index in filelister format is now a string (%s), and added next string that gives index+1 (is1); Fixed manual ofmodifypatid: andanonymize:; dicom mime to application/dicom; Added modes imagelisthttp, imagelisturls and imagelistfiles; added? format for imagelister: gives #files |
| 20080909: | Added studyuid option to moveseries; pass it studyuid in seriesmover call from seriesfinder; Added |
| | modifyimage:file,script (uses import converter scripting language, where you can use ' instead of ") |
| 20080910: | In modifyimage only replace ' with " conditionally; version to 1.4.14a; |
| 20080910: | Forbid patid, studuid and seruid change in modifyimage; medged bcb Mac stuff |
| 20080913: | Modified and use SetStringVR to correctly send UIDs with padded 0 |
| 20081016: | Show bitness on startup |
| 20081104: | Attach dictionary to DcmMove PDU |
| 20081105: | Fixed display of bitness in web page |
| 20081116: | Adapted for very large objects (use unsigned int for length); remove extra 0 byte in HTML generator; fixed CheckLargestMalloc |
| 20081121: | Added create database for PostGres |
| 20081123: | Skip export converters for dropped, modpatid, modimage, merging |
| 20081124: | show database type on startup; Temp version to 1.4.14a1; fix many scripting crashes |
| 20081129: | start on better patient ID change: process all UIDs; fix drag/drop error introduced in 1.4.14a1 |
| 20081129: | Removed double access of SOPInstanceUID in SaveToDisk; fix: do not free ddo after SaveToDisk; |
| | added <newuids> and <newuids except=""> import converters;</newuids></newuids> |
| | addedgenuid,changeuid andchecksum commands |
| | Version back to 1.4.14a; modifyimage can change patient ID |
| | and study/seriesUID if newuids used as well |
| | set can now also work in exactly one deep sequence: set |
| 20081130: | gggg,eeee/gggg,eeee to "string" Addedattachrtplantortstruct:planfile,structfile command using |
| 20001130. | script; alsoattachanytopatient/study/series |
| | stop now stops one importconverter- not the chain; added <call< td=""></call<> |
| | file> and <return> statements to return from file</return> |
| | Added optional anonymize script.cq: overrules fixed |
| | anonymizer; added $\%$ A = $\%$ V but then gives CRC32 of data |
| | and $\%E = \%V$ but gives new UID for given UID |
| 20081201: | addedconvert to jpg and web page use (experimental) |
| 20081201: | If jpg graphic: list options as jpg, yes, no; fix slice number |
| -0001203. | display is serversideviewer |

| | Added frame control to convert_to_jpg etc as l/w/frame; add optional frame control to convert to dicom; added frame |
|---|--|
| | control in serversideviewer |
| 20090203: | Removed DNS reversing (you can use wildcard AE instead); work on zip loading |
| 20090204: | Finished zip loading (to be tested on linux), uses now waiting BackgroundExec |
| 20090206: | Added QueryConverter0, WorkListQueryConverter0, |
| | RetrieveConverter0: can read called (%c), |
| | calling (%u), and c-move destination for retrieve (in %s), as |
| | well as all data in data object |
| 20090209: | Made compiling under linux |
| 20090211: | Export MyDcmError; only DCM_ERROR_MEMORY is fatal |
| 20090212: | Recoded virtual server (kept old code), to provide better |
| | grouping of move requests |
| 20090215: | Added VirtualPerSeries09 flags: determines if virtual gets are |
| | per image (default) or per entire series |
| 20090216: | Added %Rgggg,eeee: gives restored UID for newly generated |
| | one. Prepare for RetrieveResultConverter0 |
| 20090411: | Added simple wildcard matching in match(), accept *text* |
| 20090411: | Version to 1.4.15alpha |
| 20090513: | Added CompressionConverter0 9: called from recompress to |
| | 's0' to 's9'; Added <fixkodak> and <unfixkodak> import</unfixkodak></fixkodak> |
| | converters; added <after nn=""> clause to <forward study=""> etc;</forward></after> |
| | Blocked out StorageCommitment |
| 20090514: | %QXgggg,eeee reads aliasfileqX.txt with lines like |
| • | old <tab>new<return> to map VR to new value</return></tab> |
| 20090616: | Add \(^{\text{after }\%}\) command to convert to upper/lowercase, \(^{\text{add }\}\) |
| 20000616 | %~ %[; fixed leak when save to sql fails |
| 20090616 | Include file stuff; fixes to Unix 7z stuff |
| 20090618 | VirtualServerPerSeries is now a limit: if set to N, more than N |
| 20000620 | images go per series |
| 20090620 | Version to 1.4.15beta |
| 20090802 | Support DCM_ERROR_DEBUG (debug messages from |
| 20090821 | library) that print only if debuglevel>0 Removed need to specify "delete series modelity *" instead of |
| 20090821 | Removed need to specify "delete series modality *" instead of "delete series"; Fixed "process by " command; now uses |
| | all command string upto; |
| 20090824 | Version to 1.4.15beta1 |
| 20090921 | Added extract frames: command |
| 20090921 | Tried to fix <compression> import converter; added <reject></reject></compression> |
| 20070722 | import converter |
| 20090924 | Restructured manual; fix crash of studyfinder without search |
| 2009092. | string; Note: on vista, commands like dgateimagelister wont |
| | give large lists (does when piping) |
| 20090926 | %t = tab in scripts; fixed failed storage error message; added |
| | RetryForwardFailed flag (default 0) |
| 20090929 | Added ImportExportDragAndDrop flag (default 0) |
| 20090929 | Version to 1.4.15 |
| 20090930 | Version to 1.4.15a |
| 20091005 | Version to 1.4.15b |
| 20091012 | Optimized preprocessing of read-ahead thread by saving tt |
| 20091108 | Started on <merge study=""> import converter</merge> |
| 20091120 | Started on <forward> import(!) converter</forward> |

| 20091229 | Version to 1.4.15c |
|----------|--|
| 20091229 | Merged bcb changes: DGATE VERSION, PATH MAX, const |
| 20091230 | char, bigendian fixes |
| 20091231 | Defined PATH MAX for Apple's Snow Leopard, endian fixes, |
| 20091231 | & fixed gcc4.2 warnings (char to const char, VERSION, |
| | DEBUG and char* to program memory) |
| | Added jpeg2k stuff (HAVE_LIBJASPER) |
| 20100111 | Merged; but keep cgi formats local (less changes) |
| 20100111 | Fixed one signed/unsigned mix in dump routines |
| 20100113 | cast %d print to (int), %ud to (unsigned int); one more const |
| 20100117 | issue |
| 20100120 | Fixed two const issues detected with ms8 |
| 20100122 | fixed: %ud should be %u |
| 20100122 | DcmMove uses study-root query when UID passed to fix move |
| | to osirix from web interface |
| 20100123 | Fixed rare crash in function VirtualServer2; started on DT FL |
| | and DT FD; version to 1.4.16alpha |
| 20100123 | Added counters for jpeg2000; put info about jpeg libraries into |
| | serverstatus display |
| 20100124 | Blocked old VirtualServer(); rephrased cancel message; |
| | changeuidback and count_frames commands; Optimized |
| | DcmError call to gpps |
| 20100124 | Use much faster MyGetPrivateProfileString: profiled as |
| | followed: Installed C:\Program Files\Microsoft |
| | SDKs\Windows\v6.1\Bin\xperf_x64.msi set |
| | _NT_SYMBOL_PATH=e:\quirt\comps\exe\dgate;srv*c:\symbo |
| | ls*http://msdl.microsoft.com/download/symbols; set |
| | _NT_SYMCACHE_PATH=C:\symbols; xperf -on latency |
| | -stackwalk profile; run dgate; xperf -d out4.etl; xperfview |
| | out4.etl; select time range; select trace-load symbols; right click |
| | selection; summary table (takes very long the first time - |
| 20100207 | downloads all symbols!) |
| 20100207 | Added uncompress command; version to 1.4.16alpha2 |
| 20100209 | Fixed another rare crash in function VirtualServer2 (thanks PR) |
| 20100227 | Fixed Scotts modifyimage problem: http://forum.image- |
| 20100227 | systems.biz/viewtopic.php?f=33&t=2143 |
| 20100227 | Added -q option to set target address of dgate command; |
| | version to 1.4.16alpha3; pass DCO also for non-nki clients: |
| | used in %s for RetrieveResultConverter; Added more extensive |
| 20100228 | printer activity logging Changed HAVE LIBJASPER to HAVE J2K so Jasper or |
| 20100228 | OpenJPEG can be used |
| 20100309 | Added double parentheses (gcc4.2 Warnings) |
| 20100309 | Changed int to unsigned int, commented out unused variables |
| 20100307 | and routine (gcc4.2 Warnings) |
| 20100619 | Added #ifndefs and fixed shadowed variables(gcc4.0 |
| 20100017 | Warnings) |
| 20100723 | Merged: Reread all changed; agreed with all but two in |
| | checklargestmalloc and cgi; 1.4.16alpha4 |
| 20100728 | Added delete vr's after ->ReplaceVR's |
| 20100815 | Merged; version to 1.4.16alpha5 |
| 20100815 | Fixed bug 32 in t=2127: seriesdesc filter |
| 20100816 | Added QueryResultConverter and |
| | ModalityWorkListQueryResultConverter |
| | |

| 20100816 | Fixed bug in VirtualQuery introduced by only partly renaming shadowed variable |
|----------|---|
| 20100816 | Allow dicom.ini and other files to be moved; fixed / as cmd |
| | line option |
| 20100816 | removed (a) from #ifndef EnterCriticalSection(a) etc |
| 20100819 | Added system export converter; added "get study" etc import |
| | converter. Allow "set" in sequence items; Allow "set" to add |
| | sequence items. |
| 20100823 | Extended virtualservermask; pass server directly to |
| | VirtualServer to override server list |
| 20100823 | Merged and simplified bcbs basedir code; use exe dir as default |
| | basedir; Fixed overlap in ImportConverter number; Made %xyz |
| | variables local; Version to 1.4.16beta |
| 20100824 | Use dFileSize to test if file is written correctly: catched 0 byte |
| | files with full disk |
| 20100827 | Fixed two typos in warning fix extract: command |
| 20100901 | Fixed empty virtual query sent if no images there |
| 20100905 | Removed file functions: now use RecompressFile; document |
| | -j* and -j-; WIP: added testmode: function to allow internal file |
| 20100014 | comparison |
| 20100914 | Fixed leak in PrinterSupport |
| 20101017 | Added MergeSeriesConverter and MergeStudyConverter |
| 20100918 | Merged; version to 1.4.16beta2; testmode does not affect |
| | LoadForGUI direct filenames; Fixed that changing patid etc in importconverter breaks exportconverter data |
| 20100919 | Added <format> clause to <set> importconverter command</set></format> |
| 20100919 | Fixed [,fromend] operator |
| 20100924 | Started on error handling in virtualserver |
| 20100925 | Fixed problem in <forward> IMPORT converter; only worked</forward> |
| | as first command in line; SearchDicomObject now checks on |
| | buffer overflow; ; # lines are comment in script file; note: |
| | <system> converter should run hidden; <call> now passed</call></system> |
| | called and calling |
| 20100925 | Version to 1.4.16beta3 |
| 20100926 | Added <mkdir> and <rm> IE converters</rm></mkdir> |
| 20100927 | Added <save frame=""> and <save bmp="" gif="" jpg=""> IE converters,</save></save> |
| | <save to=""> E converter</save> |
| 20100928 | Fixed in delayed <merge>, <delete>; fixed</delete></merge> |
| | MergeSeriesConverter and MergeStudyConverter crash |
| | Fixed 1.4.16beta2 introduced bug: patientid was passed |
| | incorrectly into importconverter |
| 20101003 | Added seriesdesc filter and script to DcmMerge, script to |
| 20101002 | DcmMove |
| 20101003 | browsepatient command; fixed that split/merge series |
| 20101003 | generated new study Vergion to 1.4.16 hete4: margad id sahadulatranafar |
| 20101003 | Version to 1.4.16beta4; merged jd scheduletransfer ImageFileLister now internally also takes study and sop |
| 20101003 | Added dgatesubmit:patid,studyuid,seriesuid,sopuid, |
| 20101003 | username@machine:folder,password; Requires 7za.exe and |
| | pscp.exe |
| 20101003 | Modified dgateScheduletransfer:patid,studyuid,seriesuid, |
| _0101005 | sopuid,username@machine:folder,password; Added IE |
| | <submit> command with target and password clause; Added</submit> |
| | next slice and frame buttons in serversideviewer |
| | |

| 20101005 | Fixed ? imagefilelister (count), added \$ imagefilelister |
|----------|--|
| | (#frames), started on passing frames to serversideviewer |
| 20101005 | Started on WADO |
| 20101006 | Enabled WADO; do not try to remove images from failed |
| 20101000 | virtualserver request (double messages) |
| 20101008 | Started on rudimentary WADO client (PatientStudyFinder now |
| 20101000 | also lists images) |
| 20101009 | Enabled rudimentary VirtualServer for WADO client: |
| 20101007 | loadforgui will try virtualservers |
| 20101009 | Tried to speedup query result processing; implemented POST |
| 20101009 | method (no multipart yet) |
| 20101009 | |
| 20101009 | WADO server and client function; upload button, not |
| 20101010 | functional yet as requires multipart parser |
| 20101010 | Set default WADO correct for conquest; finished (single file) |
| 20101010 | upload fuctionality; |
| 20101010 | Scan incoming folder once per second (thread starts when |
| | incoming folder exists on startup); Some fixes in |
| | serversideviewer; started on VirtualQueryCached |
| 20101013 | Fix: CreateDatabase "root", used UserName as Password for |
| | postgres |
| 20101014 | Fix in virtualserver for LoadForGUI |
| 20101016 | Improved virtualserver for LoadForGUI; Cached queries start to |
| | work; virtual queries now return computed fields; use e.g., |
| | VirtualServerFor0 = AE,CACHESERIES or |
| | AE,CACHESTUDIES |
| 20101017 | Added OverlapVirtualGet parameter: controls interleaving of |
| | recieve and send of virtualserver (suggest: 16) |
| 20101018 | Limited memory use of OverlapVirtualGet, tried out of order |
| | processing but this failed; dated folders for querycache; Submit |
| | and scheduletransfer call submit.cq if exists to anonymize |
| 20101020 | Small fix in querycache: query file sometimes not stored; and |
| | study cache did not read date |
| 20101108 | Addedloadanddeletedir command |
| 20101116 | Warnings |
| 20101120 | Fix reading of FIXKODAK in virtualserver if e.g., |
| 20101120 | CACHESERIES appended; merged bcb warnings (and fixed |
| | introduced errors); version to 1.4.16releasecandidate; Added |
| | warning if cached virtualserver does not provide computed |
| | fields; Added NONVIRTUAL flag to allow block recursive |
| | virtualserver connections; Do not forward transfer syntax to |
| | virtual queries data object |
| 20101121 | 1 |
| 20101121 | Fixed NONVIRTUAL flag for non-cached queries if caching is |
| | ON; Added dgateexport: command to zip/7z/tar selected |
| | data; Added dgatesafequit: command and OpenThreadCount; |
| | prepare for ArchiveConverter0 (1900); Show in log when a file |
| | is rewritten; Added [wadoservers] section in cgi config; |
| | Document ul, ub, and ue in acrnema.map |
| 20101122 | Pass script to export: command; added ZIP thread that runs |
| | when the system is a service; Fix for spaces in zipfilename for |
| | export; background exe for 7za |
| 20101124 | Fix compile and 2 warnings for linux; drop zip file extracts |
| | with paths to avoid overlapping filenames |
| 20101209 | Fixed FIXKODAK parameter detection of virtualservers |
| | |

| 20101212 | Warn if FIXKODAK paramater set in virtualquery does not match FixKodak global; Fix rewrite message for virtual server data |
|----------|--|
| 20101212 | Correct file formats listed and accepted for 7za decompression |
| 20101212 | Version to 1.4.16 |
| 20101212 | Implemented NightlyCleanThreshhold here for Linux and |
| 20101213 | Windows (if logging to file) |
| 20101220 | newuids will change empty uids into a new one |
| 20101222 | Fix for empty cached query that crashed |
| 20101227 | Fixed some delete NULL crashes on failures |
| 20101227 | Added org clause to forward <compressed as="" xx=""> to AE org AE</compressed> |
| 20101227 | ImportConverters now also use ForwardAssociationLevel |
| 20101228 | Added \n after cloning db message |
| 20110105 | Use MakeSafeStringValues for exact match; Added |
| 20110100 | MoveDeviceScript0 |
| 20110105 | Addedecho andselectseriestomove commands |
| 20110105 | Version to 1.4.16rc1 |
| 20110106 | Addedmoveseriestodevice; changedselectseriestomove |
| | syntax |
| 20110106 | Todo: NightlyMoveSource, NightlyMoveDest, |
| | NightlyMoveAmount, NightlyMoveAge, NightlyTestAge |
| 20110106 | Version to 1.4.16rc2 |
| 20110110 | Note: mergestudiesconverter called for series and other way |
| | around |
| 20110111 | Check for empty patient ID in virtual query and for other empty |
| | VRs |
| 20110111 | merge study converter merges series: now calls |
| | MergeSeriesConverter. Merging studies now calls |
| | MergeStudiesConverter |
| 20110111 | changed logic of converters passing study or series uid to be |
| | consistent |
| 20110111 | reject or destroy in merge script stops object from being merged |
| 20110113 | fix script clause in merge study, call also tries line in [scripts] in |
| | dicom.ini |
| 20110113 | Allow script clause without "" as well; unrecognized line |
| 20110114 | attempts call |
| 20110114 | "" in script string; script command evaluates string as script |
| 20110115 | delete changed UIDs after merge study (remerge will create |
| 20110115 | new series) fixed "script" converter and substitution of ""; experimental |
| 20110113 | fixed "script" converter and substitution of ""; experimental "lua" command |
| 20110116 | fixed error message for incorrect script commands; first lua |
| 20110110 | functions built-in |
| 20110116 | SearchDicomObject now supports %VName; allow |
| 20110110 | setting/reading more than 10 sequence items |
| 20110116 | The set command now accepts names, e.g., set PatientID to |
| 20110110 | "9999"; nop %VPatientID |
| 20110116 | Lua now allows, e.g., Data.PatientID = 'aap'; |
| _0110110 | print(Data.PatientID) |
| 20110117 | Started on lua Global, Association, Command |
| 20110118 | Primary PDU is Extended to allow embedding lua state in it |
| 20110119 | Added a global PDU as script context; associations add new |
| | contexts |

| 20110120 | Fix in Association.Calling/Called; for now each thread has an isolated lua state. Fix in speed of query results (were all processed by ImportConverter). Added lua startup/command/QueryConverter0 etc; count all threads |
|----------------------|---|
| | including gui threads |
| 20110121 | Added prefetcherPDU for delayed forwards and such |
| 20110122 | Fixed lua print, added lua error handling; added %f %b %p to |
| | ImportConverter |
| 20110122 | Fixed SearchDicomObject for US,SS,UL,SL tags (note: 'set to' not fixed yet) |
| 20110124 | bug fixes in new code; implemented reject in lua |
| 20110125 | Put UID changes into debuglog |
| 20110127 | Added lua getpixel and setpixel (takes 3-5 microseconds) |
| 20110129 | Added lua getrow, setrow, getcolumn, setcolumn, readdicom, |
| | writedicom; sd.ddo leaks |
| 20110201 | Lua: R/W sequence e.g., print('0 implied', |
| | Data.InstitutionCodeSequence.InstitutionName) or |
| | Data.InstitutionCodeSequence[2].InstitutionName = 'write for now max one level deep' |
| 20110203 | Lua: Unified reading and writing of Data/Command/Sequences; |
| | Allow write at any depth in existing sequences |
| 20110204 | Allow creating sequence in script and in Lua: Data.xxxx = {} |
| 20110205 | Added newdicomobject and deletedicomobject |
| 20110206 | Fix for set to ""; added set to nil for simple VR; create |
| | sequence will not overwrite existing sequence; lua web page |
| | creation: CGI(), HTML(), lua ? <%= %> source=xx.lua |
| 20110207 | Added lua: get_amap(N) N starts at 1, dbquery(db, flds, |
| • 0.4.4.0.0.0 | query, sort) { returns table of tables starting at 1) |
| 20110208 | lua gc for dicomobject; lua dicomarray and dicomquery; allow |
| 20110200 | virtualquery without setting level in DDO |
| 20110208 20110214 | 1.4.16rc4 |
| 20110214 | Fixed lua Data access; fixed "" in exportconverter; 1.4.16rc4a Fixed calling and called in ExportConverter; fixed %f etc in |
| 20110210 | ImportConverter; mkdir IE converter also creates subdirs; |
| 20110220 | 1.4.16rc4b |
| 20110228 | Added Write, Read and Dump methods to lua dicomobject as closure with passed method name |
| 20110320 | Fixed Association. Calling in lua; Added |
| | RejectedImageConverter0; added t_1500 checks to all queries |
| 20110320 | 1.4.16rc5 |
| 20110326 | 1.4.16rc6 |
| 20110328 | Fix crash when setting lua Filename for import file |
| 20110331 | Added NoDICOMCheck option: if set, do not stop parsing DICOM stream on error; FlushPrivateProfileStringCache after |
| | writing to dicom.ini |
| 20110331 | 1.4.16 |
| 20110404 | Fix in CGI behavior for IIS (check REQUEST_METHOD); version to 1.4.16a (unreleased) |
| 20110413 | NoDICOMCheck also forces use of sequence enabled reader |
| | (allows JPEG compressed V2 file) |
| 20110419 | Added lua getvr(Object, g, e), Object:GetVR(g, e), |
| | setvr(Object, g, e, data), Object:SetVR(g, e, data); full lua |
| | webpage now basically works and gives error messages to web |
| | page |

| 20110410 | . 1416 |
|----------------------|--|
| 20110419 | version 1.4.16a |
| 20110501 20110502 | added heapinfo() in lua; version 1.4.16b Made DcmMove almost always work on study level; added lua |
| 20110302 | dicommove(source, dest, obj, patroot) and sql(statement) |
| 20110603 | loadkfactor now required for dgate -a commands; added -h |
| 20110003 | option (wait for getkey) |
| 20110604 | lua endassociation and clienterror events; added retry command |
| _011000. | for rejectedImageConverter0 |
| 20110604 | implemented/fixed size (may be %)/dsize for sliceviewer |
| | /serversideviewer/seriesviewer; version 1.4.16c; also allow |
| | size=": use original size or 80% for those requiring a fixed size |
| 20110605 | Added zip download of series/study through push page |
| 20110606 | Addedmodifystudy andmodifyseries commands, e.g., dgate |
| | "modifystudy:20000321,,compression j2" |
| 20110628 | Set PDU.Link.Connected to FALSE on !PDU.Read(&DCO)) in |
| | StorageApp::ServerChild() to avoid subsequent use of a closed |
| | socket in AReleaseRQ::Write() and AReleaseRP::Read() in |
| 20110510 | PDU_Service::Close() (called in destructor of PDU_Service) |
| 20110710 | Added RejectedImageWorkListConverter0; fixed retry for |
| 20110710 | RejectedImageWorkList and RejectedImage |
| 20110710 | Fixed WADO application/dicom mime header zip from web page calls zip.cq script on each file; also forces |
| 20110/10 | DCM extension |
| 20110710 | Fix compile of getch and heapinfo linux |
| 20110710 | Version to 1.4.16d |
| 20110904 | Clear address (0010,1040) in default anonymizer; Fixed lua |
| | deletedicmobject, leak in readdicomobject; Create empty |
| | sequence is really empty, # operator for DICOM sequence in |
| | lua; Version to 1.4.16e |
| 20110904 | Fix read of %i, %s, %m in lua not from ImportConverter; |
| | protect getpixel etc against missing pixel data; Fix crash of |
| 20110005 | %QX if file does not exist |
| 20110905 | Fixed leak in %QP etc; fixed leaks in ADDO cleaning in web interface |
| 20110906 | Added optional script instead of submit.cq to dgate |
| 20110700 | scheduletransfer: and dgatesubmit: |
| 20110907 | Added script clause to forward; e.g., forward to PACS001fir |
| | org SELF script fixkodak |
| 20110927 | Added "crop x1,x2,y1,y2" and "tomono" importconverters |
| 20110928 | Added the DEST clause to e.g., "forward to AE org CALLING |
| | dest CALLED script nop" |
| 20110930 | Fixed crash forwarding from lua; Version to 1.4.16f |
| 20111009 | Fixed sequence writing problem; make it one long when first |
| | writing; Fixed AliasFile reading issue: i index into command |
| | updated incorrectly; Fixed lua dbquery issue due to typo; |
| | Added channel clause to forward import converter; use |
| | PDU[19,channel] from lua; fix forward org dest clauses; fixed forward to HOST:PORT |
| 20111010 | Protect channel clause againt incorrect values; Version to |
| 20111010 | 1.4.16g |
| 20111015 | Fixed wado dcm compression (incorrect extension) |
| 20111018 | Added TempDir ini file option |
| 20111114 | Version to 1.4.16h |
| 20111120 | Default size in convert_to_gif etc is now 0: as is |
| | |

| 20120112 20120211 | Fix in passing script to submit command Allow passing optional DDO as first arg to set/getpixel set/getrow Object:SetPixel, Object:GetPixel, Object:SetRow, |
|----------------------|---|
| 20120212 | Object:GetRow Fixed uncompress WADO; fix POST code for SOAP serving; |
| | export globals to lua in CGI mode |
| 20120212 | Fixed POST for IIS (read len, not len+1) |
| 20120213 | Small fix in x:GetRow etc; Setting Dictionary and |
| | ACRNemaMap for CGI enables moves and queries |
| 20120213 | Moved some set and virtualquery logging to SystemDebug |
| 20120214 | Allow any file to be POSTed, saves as xxx.dat; Added |
| 20120215 | DefaultPage and AnyPage items |
| 20120215 | Reversed CGI key test to allow query string where e.g., mode= appears twice, hit on first |
| 20120215 | Added optional markseries and markstudy pages if passing |
| 20120213 | value 'key' down into them |
| 20120217 | Added shoppingcart option; enabled if configured and passing |
| 20120217 | value 'key' |
| 20120218 | Added DefaultPage to make own top and AnyPage to totally |
| | disable built-in CGI server |
| 20120219 | Disabled WEB push to self, and zip from remote server (which |
| | was invalid anyway) |
| 20120220 | Added WebPush configuration to allow disabling push options; |
| | show more config items |
| 20120220 | Version to 1.4.16i |
| 20120221 | lua can run script on any dicom object; empty tag does not |
| | return NIL to lua; lua dictionary(); fix uploadedfile |
| 20120222 | Fix webpush and crash on IIS for empty QUERY_STRING |
| 20120229 | Extended number of possible columns in PatientStudyFinder |
| 20120302 | Added gpps lua function; DefaultPage may be e.g., *.lua; any |
| 20120304 | mode is that mapped to mode.lua |
| 20120304 | Implemented region and anonymize options to wado Made DefaultPage and AnyPage sections; Fixed WADO text |
| 20120304 | output; Version to 1.4.16j |
| 20120305 | Added statusstring for simple web feedback of dicommove and |
| 20120000 | submit (not multiuser safethough) |
| 20120306 | Added lua callback to dcmmove2; added statusstring: server |
| | command |
| 20120306 | A failed virtualserver request will now not wait until a timeout |
| | and log error messages |
| 20120307 | Added bridge=AE option to make local WADO server a proper |
| | bridge (see MyBridgeStorage and LoadForBridge and 0x2bad) |
| 20120317 | Documented imagefinder; added process study series with |
| | xxxx.lua (just command_line is passed) |
| 20120318 | Allow "file.lua" directly as importconverter instead of lua |
| 20120210 | "dofile('file.lua')" |
| 20120319 | Implemented lua: filenamesyntax; e.g. |
| | lua:dofile('generatefilename.lua') or lua:Data.SOPInstanceUID'.dcm' |
| 20120320 | Added [wadoservers] bridge = AE to force wadoserver by |
| 20120320 | default to bridge for one given AE |
| 20120325 | "lua" and [lua] ExportConverter, "copy" ImportConverter and |
| _01_00_0 | "defer" ImportConverter (for lua ExportConverter) |
| 20120327 | Document status string: command |
| | |

| 20120402 | Improved OverlapVirtualGet: allow to reverse operation - give slices out mainly in incoming order; Avoid deadlock by |
|----------|--|
| | conflicting requirements; SystemDebug some status messages in OverlapVirtualGet and ReadAheadThread |
| 20120402 | Released 1.4.16j |
| 20120525 | When retrieve from virtualserver is ready cancel outstanding c-move requests; Increased virtualserver timeout to 200 sec |
| 20120601 | Implemented WORKLIST query from lua |
| 20120621 | Fix readahead crash when client hangs up in the middle of the |
| | transfer |
| 20120624 | Limit virtualserver to 64 per move; virtualserverperseries obsolete; fixes crash when series larger than move |
| 20120624 | move mkdir etc defines in dgate.cpp up to line 2220 |
| 20120624 | Keep move object intact in lua dicommove and dicomquery; |
| | report fail for lua sql and readdicom functions |
| 20120624 | Prerelease 1.4.16k |
| 20120630 | Allow compression to be e.g. JL etc or JLNN, J3NN, J4NN, J5NN, J6NN: NN is quality factor |
| 20120630 | Reverse .dcm check: all is assumed .DCM except .V2 |
| 20120701 | Added dicomdelete; note: tried to make heapinfo() thread safe |
| | but failed; added [lua]nightly script that runs at 03:00; and |
| 20120701 | [lua]background that runs every second |
| 20120701 | release 1.4.16k |
| 20120702 | Protect lua_setvar against NULL string Fixed CCL and a that got extension years on university in |
| 20120721 | Fixed CGI code that got extension wrong on unix with . in folder name |
| 20120722 | Added LUA_5_2 compatibility by bcb; removed unneeded |
| 20120722 | buf[1024] |
| 20120723 | Fixed *count> (*count) |
| 20120829 | "mkdir " script command no longer requires a trailing / or \ |
| 20120829 | Force even text/plain output; first pad ' '; then strip when odd |
| 20120829 | Version to 1.4.17 |
| 20120905 | Fixed bug found by Bruce Barton in [lua] ExportConverter |
| 20120908 | Added fix for virtualserver on imagetype and |
| | NOIMAGETYPEFIX flag VirtualServerForN may be e.g., |
| | "server,NOIMAGETYPEFIX,FIKKODAK" |
| 20120914 | Changed default of above fix to off: flag is now |
| 20120014 | IMAGETYPEFIX |
| 20120914 | Attempt to use VirtualQueryCached to build list of images to be |
| | retrieved in VirtualQuery. Filter response in virtualquery (for |
| | virtualserver) for incorrect response of carestream to IMAGETYPE query |
| 20120916 | Cleaned up code; split in VirtualQuery and VirtualQueryToDB |
| 20120710 | (that uses VirtualQueryCached); Renamed option |
| | IMAGETYPEFIX to send only 3rd element of ImageType to |
| | IMAGETYPEFIX3; IMAGETYPEFIX just tests each received |
| | record for a match against queried ImageType |
| 20120917 | Move dumps response in case of error; finished |
| | IMAGETYPEFIX |
| 20120922 | IMAGETYPEFIX also works on EchoNumbers |
| 20121015 | Fixed check on V2 filename extension to enable NKI |
| | compression again |
| 20121016 | 1.4.17alpha release |
| 20121201 | Added and disabled code to link optional socket.core library |
| | |

| 20121208 | Addedtostring method to lua representation of dicom objects; fix luaGlobalNewIndex: writes dicom.ini as well as direct variables; Blocked delayed export converters of non- |
|----------|---|
| | existent objects; Added WatchFolder parameter (second monitored incoming folder) |
| 20121214 | Enabled socket.core; use .zip for submit version to 1.4.17beta |
| | Fixed 'forward compressed as ' in import and export converter |
| | (viewtopic.php?f=33&t=15588); Added lua Association.ConnectedIP member (WIP) |
| 20121216 | Added DicomObject as class factory with new and newarray, |
| | added :free(), fixed ConnectedIP |
| 20130125 | Added changeuid and changeuidback to lua interface; |
| | Anonymizer accepts anonymize_script.lua as well as anonymize_script.cq; Added ImportConverters "olduids" and |
| | "olduids except" |
| 20130127 | Added dgateluastart: (returns immediate) |
| 20130128 | Added crc to lua interface |
| 20130202 | Added getimage, setimage, :GetImage, :SetImage to string |
| | GetVr has extra parameter (binary), SetVR accepts (binary) |
| | string; Added "pack" library hardcoded; lua genuid; protect lua :Read filename |
| 20130210 | mvh Fixed e.g. process study after 5 with test.lua %i:%o; |
| | Note: there must be arguments passed to command_line |
| 20130215 | Fixed source = xxx.lua cgi starter |
| 20130218 | re-allow readdicom on empty Data object; header now works |
| 20130218 | for lua cgi script (default disabled) Report move failure in dgate commands |
| 20130218 | Added studyviewer (default disabled); added dgatedolua: |
| | Documented lua command line options; socket.core only for win32 now |
| 20130219 | 1.4.17beta released as update |
| 20130320 | Added lua system() call; fix BackGroundExec with spaces in |
| 20130321 | path Add BaseDir\clibs to path; added missing logs for converters |
| 20130321 | such as rm |
| 20130417 | fix lua dicommove parameter 5; fixed 'webscriptad(d)ress' |
| 20130417 | Unescape % in luaSeqnewindex generated "set@ script |
| 20130502 | Added \nAccess-Control-Allow-Origin: * or \nAccess-Control- |
| | Allow-Origin:* to all WADO generated messages, the space is omitted to force header EVEN |
| 20130502 | 1.4.17beta2 update |
| 20130522 | Added options to pass command line to submit data (dgate |
| | submit2:, IE submit2) |
| 20130522 | Fixed incorrect case of dicomworklist name found by marek |
| 20130523 | Reset dummyddo to avoid incorrect freeing of what it points to |
| 20130523 | Fixed bug introduced 20130417 with unescaping Data.xxx = nil or {} no longer worked |
| 20130523 | In ModifyPATIDofImageFile change PatientID after running |
| | script (assumed changes uids) |
| 20130523 | 1.4.17 release |
| 20130606 | Fixed crash in headerdump of RTSTRUCT (buffer overrun) |
| 20130709 | Added granner for getting gimple US and III, items with a great |
| 20130709 | Added support for setting simple US and UL items with e.g. set Rows to 256 |
| | |

| 20130711 | Fixed luasetimage, fixed some lua return values, version to |
|----------|---|
| | 1.4.17a |
| 20130716 | Added dgatemoveaccession: using 7777 magic number |
| 20130804 | dgatelua: andluastart: now run in local environment |
| 20130806 | dcmmove callback and process with lua now thread safe |
| 20130806 | fixed setimage(frame, string), version to 1.4.17b |
| 20130808 | Enabled logging of process series by command |
| 20130808 | Fixed importconverter command that used patid in memory; |
| | failed after anonymization |
| 20130808 | Added import_critical and export_critical to make "forward to |
| | xxx" thread safe |
| 20130810 | Removed export_critical (is serialized), added channel * to |
| | importconverter forward to |
| 20130810 | Added closing of importconverter forward to PDU after |
| | ForwardAssociationCloseDelay |
| 20130811 | Fixed that missing images were removed from db even of no |
| | virtualserver is defined |
| 20130812 | Fixed deadlock of closing of importconverter |
| 20130812 | added lua sleep() in ms; removed unused TransmitCompression |
| 20130813 | Removed unnecesary double N checks in forward import |
| | converter; added lua addimage() and :AddImage() added |
| | VirtualServerQueryConverter and |
| | VirtualServerQueryResultConverter; Pass file.lua(command) |
| | and patient ID of anonymizer to command_line & set version |
| | |

DGATE.HPP (part of **DGATE.EXE**):

| 19980705: | Added CACHEDevices and JUKEBOXDevices, |
|-----------|--|
| | FindPhysicalDevice |
| 19990108: | Added LoadImplicitLittleEndianFile and NKI |
| | PrivateCompession algorithms |
| 19990109: | Regen has extra parameter |
| 19990317: | Changed parameters of LoadImplicitLittleEndianFile |
| 19991117: | Added parameter FileCompressMode to prototype of |
| | nki private compress |
| 20000629: | Added TroubleLogFile and UserLogFile |
| 20010415: | Added KeepImages flag to RemoveFromPacs: clear from DB |
| | only Added SubDir parameter to regen to allow regen of one |
| | directory only |
| 20010416: | Added ChangeUID routine and RegenFile - to allow |
| | modification of images |
| 20010429: | Changed decompressor: now has extra parameter |
| 20020529: | InitializeTables now has mode parameter (0=normal, 1=simple) |
| 20021018: | GenerateFileName has NoKill option (for interactive dgate |
| | tasks) |
| 20030120: | Added prototype of FreeDeviceTables |
| 20030701: | compression parameter for amap |
| 20030703: | Added prototypes of recompression functions + |
| | ArchiveCompression |
| 20030706: | Optional filename parameter for recompress |
| 20030706: | Export VRType for implicit little endian support |
| 20030921: | Added DEVICE TYPE MIRROR |
| 20040401: | Added Changed and ActualMode flags to compress routines |
| 20040626: | Added study and series UID to getfilename interface |

LOADDDO.CPP (part of DGATE.EXE):

| 19980409: | added NKI private decompression engine VR 0x7fdf,0x0010 |
|-----------|--|
| | 1 0 |
| 19980410: | added run length encoding of zero differences |
| 19980410 | Fix 16 bit absolute value decode |
| 19980415 | Fix leak on decompress |
| 19980625 | Added compression in SaveDicomDataObject(C10) |
| 19980703 | Made DObjectSerialize thread save (removed statics) |
| 19990105 | Fix: SaveDICOMDataObjectC10 created VR 0x0002 0x0013 |
| | twice. Added comment in SaveDICOMDataObjectC10; |
| | CleanUp. Put the nki-routines also in dgate.hpp. Added |
| | LoadImplicitLittleEndianFile |
| 19990317 | Decompression removed from LoadImplicitLittleEndianFile; |
| | added a VR-sizelimit of that reader |
| 19990827 | NOTE: LoadImplicitLittleEndianFile allocates 100 MB and |
| | crashes when passing chapter 10 file (happens when extension |
| | is wrongly .v2) |
| 19990830 | Fixed problem above: 'LoadImplicitLittleEndianFile' uses |
| | 'PDU.LoadDICOMDataObject' in such cases. |

| 19991117 | Added parameter FileCompressMode to in |
|-----------|--|
| | nki_private_compress call |
| 20000629 | Logging of trouble now starts with '***' |
| 20001104 | Renamed _LittleEndianUID to _LittleEndianUID_space |
| 20001105 | Fixed where malloc and new were mixed (vr->data) |
| 20001106 | Use delete [] operation for vr->Data |
| 20001128 | Fix in 'Implicit length' code in LoadImplicitLittleEndian |
| 20010429 | Use faster and safer decompressor |
| 20020412 | Added class CBufferedIO for faster reading from DVD (stream |
| | functions do not seem to be caching.) |
| 20020415 | Removed diagnostic time code (did not compile on ms4.2). |
| | Made buffer size dependent on iVrSizelimit (i.e, use smaller for |
| | regen, slightly faster) |
| 20030706 | Attach VRType to PDU's for implicit little endian support |
| 20041130 | Documented crash on win2000 server in code - remains to be |
| | fixed – rare crash related to read error of DVD |
| 20050107 | Adapted for linux compile |
| 20051219 | Use ReAlloc instead of new BYTE[] to fill VR data |
| 20070308 | And little/big endian. |
| 20081116 | Adapted for very large objects (use unsigned int for length) |
| 20090211 | Safety checks in LoadImplicitLittleEndian to avoid crash on |
| | corrupted V2 file; Removed lots of dead code |
| 20090412 | Fixed for linux compile (tell does not exist) |
| 20091215 | Fixed LoadImplicitLittleEndian() when iVrSizeLimit is used |
| | (e.g. regen) (assumption that the pixeldata would be the last VR |
| | is not correct). |
| 20091231 | Changed char* to const char* for gcc4.2 warnings |
| 20100111 | Merged |
| 20100210 | Fixed reading some old V2 files (-1 VR lenght). |
| 20100309 | Changed int to unsigned int, cast m_iNbBytesInBuffer to long |
| | (gcc4.2 Warnings) |
| 20100309 | Commented out unused (gcc4.2 Warnings) |
| 20100619 | Fix gcc4 warnings, improve speed and prevent CBufferIO from |
| | being copied. |
| 20100717 | Merged |
| DGATEFN (| CPP (nart of DGATE EXE): |

DGATEFN.CPP (part of **DGATE.EXE**):

| 19980326: | changed file name generator to ensure correct sorting of image |
|-----------|--|
| | files by external applications |
| 19980327: | Added FileNameSyntax option in dicom.ini; 0=original, |
| | 1=allow sorting by name |
| 19980407: | avoid /; in filename; for Philips: allow up to 9999 series and |
| | 999999 slices |
| 19980409: | do not free passed DDOPtr on failure: crashed the lot |
| 19980415: | Error messages to operatorconsole |
| 19980620: | Check error flag from GetDevice (for out of disk message) |
| 19981005: | Added FileNameSyntax 2: filename starts with SeriesUID_ |
| 19981005: | Replaced size%64 by min(size, 63) for correct truncation |
| 19981217: | FileNameSyntax 3: same as 2 but accept errors |
| 19981220: | Fixed FileNameSyntax code |
| 19990117: | FileNameSyntax 4: same as 3 but .dcm extension (forces ch10 |
| | format) |
| | |

| 19990117: | Avoid attempts to rewrite image that is not on MAG store (e.g., on CD) |
|-----------|---|
| 19990315: | Do not allow '.' in directory name. In Syntax 3 directory name is now patient ID only (better for ACRVIEW). Better unique |
| | filenames by using time + counter. |
| 20000127: | FileNameSyntax 4 now does not truncate patid, as 3 already did |
| 20000127: | FileNameSyntax 4 has patient ID only as directory name (same |
| 20000131. | as 3) |
| 20000701: | Added MaxFileNameLenght option: truncates from start |
| 20010419: | FileNameSyntax 5 on request of Jason Foster - uses |
| 20010117. | patientname as dir |
| 20011109: | Made MAG name check case insensitive |
| 20020416: | Made filename counter 4 digits for when writing >100 files/s |
| 20020416: | Made all instances of time() unsigned |
| 20020426: | Cannot rewrite image not on MAG store is now a message without *** |
| 20020508: | The above message will not lead to a fail of GenerateFileName |
| 20020802: | Added FileNameSyntaxes 69; cleaned FileNameSyntax code a bit |
| 20020804: | Truncate patient ID to 32 chars for mode 6 and 8 (make sure |
| 20020001. | len<255) |
| 20021016: | Pass indexed patid to GetFilename for speed |
| 20021018: | GenerateFileName has NoKill option (for interactive dgate |
| | tasks) |
| 20021223: | Added forbidden chars *, ?, " and : (comment from Thomas |
| | Buerer) |
| 20030401: | Ovverrule '.v2' filenames with '.dcm' when object is not |
| | ImplicitLittleEndian |
| 20030522: | Replaced 'static int counter' by 'unsigned int gl_iCounter' |
| 20030606: | Fixed incremental counter when creating UIDs or generating |
| | filenames |
| 20030730: | Overrule v2 only when not ImplicitLittleEndian, |
| | ExplicitLittleEndian ExplicitBigEndian (c.f. 20020401) |
| 20030819: | Allow longer filenames |
| 20030921: | Added DEVICE_TYPE_MIRROR TO GetDevice call |
| 20040129: | Added FileNameSyntax $10 = all$ files in one directory |
| 20040301: | Small fix for FileNameSyntax 10 |
| 20041108: | Added Syntax input to GenerateFileName (overrides ini setting) |
| 20050107: | Adapted for linux compile |
| 20050126: | FileNameSyntax 11: StudyUID\SeriesUID\SOPUID.dcm |
| 20050131: | Changed root to 'name' for FileNameSyntax 11 |
| 20051210: | Clear root output string when image already in database |
| 20060312: | FileNameSyntax 12: similar to 11 but uses Modality_StudyID |
| | as dir |
| 20060312: | Checked it: |
| | 12=name_ID\Modality_StudyID\SeriesUID\SOPUID.dcm |
| 20060314: | 12=name_ID\Modality_StudyID\SeriesID\SOPUID.dcm |
| 20060314: | new filenamesyntax, e.g., %name_%id\%modality_%studyid\ |
| | %seriesid\%sopuid.dcm |
| 20060317: | Added calledae and callingae to GenerateFilename flexible |
| 20060225 | syntax |
| 20060325: | imagenum is image number as text, fix imageid, accept all |
| 20060402 | errors |
| 20060402: | Fix potential problem when patient ID not there |

| 20060701: | |
|--|--|
| | Speeded string handling in new filenamesyntax |
| 20060702: | Pass DB to GenerateFilename to avoid zillions of db open and |
| | closes |
| 20070125: | Fix %modality; add %studydate and substring (year = |
| | %studydate[0,3]) |
| 20071027: | Extended length of FileNameSyntz parameter to 256 |
| 20071027: | Stripped spaces of called and calling in flexible filenamesyntax |
| 20071030: | Small fix in the above |
| 20071104: | Added %series: 4 digit series number |
| 20090620 | Include file stuff |
| 20090620 | Include file stuff |
| 20090926 | Added %studydesc and %vxxxx,yyyy etc |
| 20090927 | Added Cleanup ro %vxxxx,yyyy |
| 20091231 | Changed char* to const char* for gcc4.2 warnings |
| 20100111 | Merged; but cast Time to print to (unsigned int) |
| 20100125 | GetPrivateProfileString -> MyGetPrivateProfileString |
| 20100126 | Fixed readout of studydate (typo mix with studydesc) |
| 20100303 | Changed int to unsigned int, commented out unused variables |
| 20100702 | (gcc4.2 Warnings) |
| 20100703 | Merged |
| 20100828 | Update history fix |
| 20101222 | Fixed that ascii codes > 128 where replaced by zero (truncated) |
| 20110201 | in Cleanup; now kept |
| 20110201 | Changed prototype of SearchDICOMObject A change of extension when rewriting is now allowed; object is |
| 20110000 | then deleted first |
| 20120319 | Implemented lua: filenamesyntax |
| 20120319 | Added %date to filenamesyntax gives yyyymmdd |
| 20121208 | , |
| 20131013 | |
| | Default FileNameSyntax set to 4 |
| | PP (part of DGATE.EXE): |
| | PP (part of DGATE.EXE): |
| | PP (part of DGATE.EXE): Setting MAGDeviceThreshHold to 0 causes out of disk error |
| DEVICE.C 19980620: | PP (part of DGATE.EXE): Setting MAGDeviceThreshHold to 0 causes out of disk error below 10 MB without cleanup |
| DEVICE.C | PP (part of DGATE.EXE): Setting MAGDeviceThreshHold to 0 causes out of disk error below 10 MB without cleanup Implemented PanicKillOff thread here as alternative to |
| DEVICE.C 19980620: 19980620: | PP (part of DGATE.EXE): Setting MAGDeviceThreshHold to 0 causes out of disk error below 10 MB without cleanup Implemented PanicKillOff thread here as alternative to spawning killer.exe |
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| DEVICE.C 19980620: 19980620: 19980702: | PP (part of DGATE.EXE): Setting MAGDeviceThreshHold to 0 causes out of disk error below 10 MB without cleanup Implemented PanicKillOff thread here as alternative to spawning killer.exe Started support functions for maintaining/determining amount of used space on device |
| DEVICE.C 19980620: 19980620: | PP (part of DGATE.EXE): Setting MAGDeviceThreshHold to 0 causes out of disk error below 10 MB without cleanup Implemented PanicKillOff thread here as alternative to spawning killer.exe Started support functions for maintaining/determining amount of used space on device NOTE: JukeBox code only TruncateFieldNames compatible for |
| DEVICE.CI 19980620: 19980620: 19980702: 19980704: | PP (part of DGATE.EXE): Setting MAGDeviceThreshHold to 0 causes out of disk error below 10 MB without cleanup Implemented PanicKillOff thread here as alternative to spawning killer.exe Started support functions for maintaining/determining amount of used space on device NOTE: JukeBox code only TruncateFieldNames compatible for now; used mp's filecopy |
| DEVICE.C 19980620: 19980620: 19980702: | PP (part of DGATE.EXE): Setting MAGDeviceThreshHold to 0 causes out of disk error below 10 MB without cleanup Implemented PanicKillOff thread here as alternative to spawning killer.exe Started support functions for maintaining/determining amount of used space on device NOTE: JukeBox code only TruncateFieldNames compatible for now; used mp's filecopy Finished first version of archive options: prepare, undo, copy, |
| DEVICE.CI 19980620: 19980620: 19980702: 19980704: 19980709: | PP (part of DGATE.EXE): Setting MAGDeviceThreshHold to 0 causes out of disk error below 10 MB without cleanup Implemented PanicKillOff thread here as alternative to spawning killer.exe Started support functions for maintaining/determining amount of used space on device NOTE: JukeBox code only TruncateFieldNames compatible for now; used mp's filecopy Finished first version of archive options: prepare, undo, copy, compare, delete |
| DEVICE.CI 19980620: 19980620: 19980702: 19980704: 19980709: | PP (part of DGATE.EXE): Setting MAGDeviceThreshHold to 0 causes out of disk error below 10 MB without cleanup Implemented PanicKillOff thread here as alternative to spawning killer.exe Started support functions for maintaining/determining amount of used space on device NOTE: JukeBox code only TruncateFieldNames compatible for now; used mp's filecopy Finished first version of archive options: prepare, undo, copy, compare, delete Set default # cache and jukebox devices to 0 |
| DEVICE.CI 19980620: 19980620: 19980702: 19980704: 19980709: 19980721: 19990110: | PP (part of DGATE.EXE): Setting MAGDeviceThreshHold to 0 causes out of disk error below 10 MB without cleanup Implemented PanicKillOff thread here as alternative to spawning killer.exe Started support functions for maintaining/determining amount of used space on device NOTE: JukeBox code only TruncateFieldNames compatible for now; used mp's filecopy Finished first version of archive options: prepare, undo, copy, compare, delete Set default # cache and jukebox devices to 0 Made strings longer since got truncated, fixed some messages |
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| DEVICE.CI 19980620: 19980620: 19980702: 19980704: 19980709: 19980721: 19990110: 19990110: | PP (part of DGATE.EXE): Setting MAGDeviceThreshHold to 0 causes out of disk error below 10 MB without cleanup Implemented PanicKillOff thread here as alternative to spawning killer.exe Started support functions for maintaining/determining amount of used space on device NOTE: JukeBox code only TruncateFieldNames compatible for now; used mp's filecopy Finished first version of archive options: prepare, undo, copy, compare, delete Set default # cache and jukebox devices to 0 Made strings longer since got truncated, fixed some messages Archive one MAG device or MAG?; fixed SQL syntax for update; speeded 0x7fffffff. Return False if SelectLRUForarchival selects no data |
| DEVICE.CI 19980620: 19980620: 19980702: 19980704: 19980709: 19980721: 19990110: | PP (part of DGATE.EXE): Setting MAGDeviceThreshHold to 0 causes out of disk error below 10 MB without cleanup Implemented PanicKillOff thread here as alternative to spawning killer.exe Started support functions for maintaining/determining amount of used space on device NOTE: JukeBox code only TruncateFieldNames compatible for now; used mp's filecopy Finished first version of archive options: prepare, undo, copy, compare, delete Set default # cache and jukebox devices to 0 Made strings longer since got truncated, fixed some messages Archive one MAG device or MAG?; fixed SQL syntax for update; speeded 0x7fffffff. Return False if SelectLRUForarchival selects no data Reset archive flag reports to operator console; protected against |
| DEVICE.CI 19980620: 19980620: 19980702: 19980704: 19980709: 19980721: 19990110: 19990111: | PP (part of DGATE.EXE): Setting MAGDeviceThreshHold to 0 causes out of disk error below 10 MB without cleanup Implemented PanicKillOff thread here as alternative to spawning killer.exe Started support functions for maintaining/determining amount of used space on device NOTE: JukeBox code only TruncateFieldNames compatible for now; used mp's filecopy Finished first version of archive options: prepare, undo, copy, compare, delete Set default # cache and jukebox devices to 0 Made strings longer since got truncated, fixed some messages Archive one MAG device or MAG?; fixed SQL syntax for update; speeded 0x7fffffff. Return False if SelectLRUForarchival selects no data Reset archive flag reports to operator console; protected against illegal device# |
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| DEVICE.CI 19980620: 19980620: 19980702: 19980704: 19980709: 19980721: 19990110: 19990111: | PP (part of DGATE.EXE): Setting MAGDeviceThreshHold to 0 causes out of disk error below 10 MB without cleanup Implemented PanicKillOff thread here as alternative to spawning killer.exe Started support functions for maintaining/determining amount of used space on device NOTE: JukeBox code only TruncateFieldNames compatible for now; used mp's filecopy Finished first version of archive options: prepare, undo, copy, compare, delete Set default # cache and jukebox devices to 0 Made strings longer since got truncated, fixed some messages Archive one MAG device or MAG?; fixed SQL syntax for update; speeded 0x7fffffff. Return False if SelectLRUForarchival selects no data Reset archive flag reports to operator console; protected against illegal device# |

instead of 0x7fffffff

| 19990117: | Accept any, not only *.v2, for computing patient size, assume max file size=30 Mb |
|-----------|---|
| 19990630: | Added support for MIRROR devices (e.g., try MIRROR1 if |
| 19990030. | MAG1 fails) |
| 19990707: | Fixed default MIRRORDevices (now 0) |
| 19990707. | NOTE: archiving should make use of mirror device if required |
| 19990/08. | as well! |
| 19990712: | Fixed that MagRampage thread was started over and over again (fixed for WIN32 only) |
| 19990831: | Fix: Several BOOL functions returned -1, which is TRUE!! |
| 20000621: | Changed layout of this update-history |
| 20000629: | Logging of trouble now starts with '***' |
| 20001104: | Fixed aDB.Close -> should be aDB.Close(); added WINAPI to |
| | MagRampage thread |
| 20010328 | Added verify mirror disk |
| 20010329 | DeleteBunchAfterBurning also deletes data on MIRROR0 if it |
| | exists; verify mirror disk keeps on going after error but does |
| | return error |
| 20010312 | Check if we already selected some patients for archiving from |
| | the device |
| 20010509 | Added RenameDevice |
| 20010522 | Do not call RestoreMagFlags if something goes in wrong in |
| | PrepareBunchForBurning |
| 20011114 | Replaced slow updates for magdevice by much faster ones. The |
| | update that now no longer has the IN part might not work for |
| | ACCESS or DBF. So: for jukebox purposes, SQL server is |
| | required |
| 20011115 | Replaced 'LIKE' by faster '=' in query strings; fixed previous fix |
| 20020412 | PanicKilloff will delete now delete 5 MB data at a time. (high |
| | water = $low water + 5$) |
| 20020415 | Added TestImages: sanity check of images on disk |
| 20020416 | Reversed read order for TestImages and VerifyMirrorDisk: |
| | MRU first |
| 20020802 | Allow multiple subdirectories in rmdir and mkdir code |
| 20020804 | Cleaned up a bit |
| 20021018 | GenerateFileName has NoKill option (for interactive dgate |
| | tasks); moved ALERT warning |
| 20021020 | Simplified and speeded queries for archiving using ImagePat |
| | field (requires rev5+ of db); Removed " and added [in |
| | MakeSafeString; hand-code one query for built-in dbase driver; |
| | Changed SQL construct in SelectLRUForArchival for |
| | compatibility with built-in driver |
| 20030120 | Added FreeDeviceTables |
| 20030702 | Start on ArchiveCompression; for now KB is specified |
| | -before!- compression |
| 20030705 | Replaced ProcessDDO by more correct DecompressNKI to |
| | check pixel data |
| 20030706 | Attach VRType to PDU's for implicit little endian support |
| 20030724 | Fix in GetKBUsedForPatient: missing %s in printf |
| 20030819 | Allow longer filenames |
| 20030905 | Allow longer filenames when reading device paths |
| 20030921 | Added DEVICE_TYPE_MIRROR in GetDevice; allow |
| | PanicKillOff to be called with variable threshold |

| 20031217 | Fix: Support harddisks bigger than 2 GigaByte!!! in |
|----------|--|
| 20040402 | CalcMegsOnDevice (Thanks to Clifford Sweet) |
| 20040403 | Moved ArchiveCompression to SelectLRUForArchival -> fills |
| 20040614 | disks correctly |
| 20040614 | Added MoveDataToDevice |
| 20050107 | Adapted for linux compile (no threads yet, no check of disk |
| | space on device) |
| 20050109 | Added threads for linux |
| 20050118 | Detach thread after starting it to avoid leaks |
| 20050119 | GetKBUsedOnDevice is not used> no problem to return -1 under linux |
| 20050414 | Fix CalcMegsOnDevice for relative path |
| 20050421 | Fix: MAGThreshHold is space for largest file != space for |
| | cleanup. Now set to 30 MB independent of |
| | MAGDeviceThreshHold |
| 20050901 | Fix free space check for unc paths (error counting \) |
| 20060311 | When GetDiskFreeSpaceEx fails allow storing data anyway (fix |
| 20000311 | for Marius Petruc) |
| 20061213 | Fixed nasty bug in MakeListOfPatientsOnDevice: Query |
| | without bindfield overwrites previous bound strings! |
| 20070316 | Cleanup now starts at MAGDeviceThreshHold to |
| | MAGDeviceThreshHold+1000, was start on 30 to |
| | MAGDeviceThreshHold; Allow both MAG0 and |
| | MAG0.Archiving as input for PrepareBunchForBurning |
| 20071027 | Protect MakeListOfPatientsOnDevice on MAXPATIENTS; |
| | LRU selection now configurable using routine |
| | MakeListOfOldestPatientsOnDevice. E.g. if LRUSort = |
| | StudyDate, deletes or archives least recent scanned patients |
| | first. The default "" means that the original sort order on db |
| | entry date is kept |
| 20071031 | Catch out of memory errors and return error status if so |
| 20071118 | Adapted for 64 bits (use SQLLEN for BindField) |
| 20071128 | Fix by kamil.krasnik of Cache device disk space test for UNIX |
| | Also fix Cache and Mirror for UNC paths |
| 20080126 | Fixed bug reported by Ali: second move to MAG1 of more data |
| | if same patient would fail on delete. Added new logic: attempt |
| | to delete file from MAG0 that is not in MAG0 but is in MAG1 |
| | is OK. Similar attempt to delete file from MAG0 that is in |
| | MAG0 but not in MAG1 is an error |
| 20080302 | Fixed case of DICOM table names |
| 20080317 | Fixed deletebunchafterburning change (Ali) |
| 20080604 | Modified device searching order when file not found: |
| | JUKEBOX now also searches other JUKEBOX |
| 20080617 | Fixed bug in above: second jukebox not accessed correctly |
| 20080818 | DbaseIII check now uses DB flags, not PATHSEP in |
| | datasource name |
| 20081016 | Fix check of max patients in |
| | MakeListofOldestPatientsOnDevice |
| 20081120 | Added UseEscapeStringConstants and DoubleBackSlashToDB |
| 20081124 | restrict PanicKillOff to 10 runs (to stop when no patients left) |
| 20090821 | Added new FileExists function that uses stat; maybe does not |
| 20070021 | try to mount tape or disk to early |
| 20090926 | MakeListOfOldestPatientsOnDevice returns newest if Max<0 |
| 20070720 | TYTAKOLISTOTOTAGSTI ATTOTILSOTILSOTILSOTILS TOTALIS HOWEST II TYTAK NO |

| | SelectLRUForArchival always use new code (use KB<0 to |
|------------------------|--|
| | select MRU); Default MakeListOfOldestPatientsOnDevice use |
| | AccessTime to emulate old code |
| 20091231 | Changed char* to const char* for gcc4.2 warnings |
| 20100111 | Merged |
| 20100120 | Fixed two const issues detected with ms8 |
| 20100124 | Use MyGetPrivateProfileString |
| 20100309 | Added double parentheses (gcc4.2 Warnings) |
| 20100309 | Changed int to unsigned int, commented out unused variables |
| | and routines (gcc4.2 Warnings) |
| 20100619 | Added UNUSED_ARGUMENT. |
| 20100717 | Merged |
| 20100901 | Added IgnoreMAGDeviceThreshHold |
| 20101121 | Added ArchiveConverter0 (1900) |
| 20110105 | Do not stop deleting on single error; added |
| 20110105 | MoveDeviceConverter0 (2000) |
| 20110103 | SelectSeriesForArchival: selects data older than age days (age>0) or younger (age<0) from device |
| 20110106 | added kb limit to SelectSeriesForArchival; Added |
| 20110100 | moveseriestodevice |
| 20110106 | fixes in series code and new MakeSafeString; #if code to allow |
| 20110100 | select on Access Time instead of Series Date |
| 20110119 | Pass PDU to some archiving code as script context |
| 20110320 | Added MAGDeviceFullThreshHold, system will only write to |
| | device if more than # MB avail (def 30) |
| 20110603 | Fully init vr used for MakeSafeString |
| 20110606 | RecompressPatient also changes filename if script |
| | (ArchiveConverter0, MoveDeviceConverter0) passed |
| 20110904 | Fixed leak in InitializeDeviceTable (occurs in read_ini |
| | command) |
| 20120723 | Fixed string overflow found by bcb in MakeListOfLRUPatients |
| 20130817 | TestFile will uncompress all read data to test it |
| DBSOL.CP | P (part of DGATE.EXE): |
| 220 42101 | (4 0.1 2 (3.1.1.2.1.2.)) |
| 19980321: | Changed ObjectFile and DeviceName field length to 250 for |
| | dbf compatibility |
| 19980321: | Added define TRUNCATEFIELDNAMES for DBF |
| | compatibity (apply in makefile) |
| 19980322: | Added run-time check on DbaseIII (should also be added in |
| | parse.cpp somehow) |
| 19980325: | Added TruncateFieldNames entry in dicom.ini to allow DBF |
| 10000227 | compatibility |
| 19980327: | Made MaxFieldLength configurable |
| 19980327: | Set default event notification to UDP (for personal pacs) |
| 19980407: 19980409: | Added FileCompressMode config Check vr!=NULL in MakeSafeString, MakeSafeDate |
| 19980409. 19990630: | Remove also files from MIRROR disks |
| 19990707: | Added UpdateOrAddToTable to refresh database contents |
| 17770707. | without first removing |
| 19990707: | Cache Updates; and AccessTime with ~31 to allow update |
| 200001. | times to be the same |
| 19990707 | Added fix for Philips PATID; fix cleaning of MIRROR device |
| 19990708 | Added (and disabled) stress code for SQL server |
| | |

| 19990712 | Fixed FIX_PHILIPS; atoi failed sometimes because vr->data |
|-----------------------|--|
| | not zero terminated |
| 19990827 | Added creation of key and link indices |
| 19991117 | Added a check on ini-file value of FileCompressMode |
| 20000621 | Changed layout of this update-history. Fix: In 'SetString', type |
| | DT_UINT32 was treated as DT_UINT16 Added |
| | TroubleLogFile and UserLogFile |
| | When updating PaientRecord, verify the new Name and |
| 20000000 | BirthDate |
| 20000629 | Logging of trouble now starts with '***' |
| 20000701 | Remove *all* trailing spaces in MakeSafeString before enters |
| 20000703 | database Margad ahangas: mada nationt ahanga varification table and |
| 20000703 | Merged changes: made patient change verification table and |
| | record name independent and extended to other databases as well; removed trailing before comparison; show patid on all |
| | error messages |
| 20000705 | refuse inconsistent update of link: show error on |
| 20000703 | operatorconsole |
| 20000707 | fixed above addition |
| 20001104 | Replaced _rmdir by equaly valid rmdir |
| 20001106 | Use delete [] operation for vr->Data |
| 20001128 | Fix: protected 'GetFileName' with a critical section. |
| 20010415 | Added KeepImages flag to RemoveFromPacs: clear from DB |
| | only |
| 20010416 | Added ChangeUID routine and UIDMODS table - to allow |
| | modification of images |
| 20010418 | Changed names of database fields in UIDMODS - did not work |
| | on msaccess |
| 20010429 | Renamed genuid routine and variables to allow compile in one |
| 20010712 | big file |
| 20010713 20010902 | Reduced devicename to 32 chars to space space Improved UpdateCache to be thread safe and made it longer, no |
| 20010902 | test on image db. |
| 20011109 | Made MAG check and database field consistency check case |
| 20011107 | insensitive. |
| 20011115 | Replaced 'LIKE' by faster '=' when possible |
| 20011116 | Fixed error handling of db entry. It was possible that db entry |
| | failed without any message! |
| 20011121 | Create indices on ImagePat and SeriesPat if these fields exist |
| 20020403 | Do not overrrule the PatientTable with: empty data, or birthdate |
| | xxxx0101, or sex other than MmFf. |
| 20020409 | made LastPatid non-static |
| 20020409 | Removed non-thread safe caching of LastADBE |
| 20020409 | Moved entry into UpdateCache to after successful Update |
| 20020412 | Made NCACHE configurable and changed it from 16 to 1024 |
| | (8 MB); Set lastfield (limit of #fields) to 20 (was 16) |
| 00000110 | Added checksum code in update cache to make it faster |
| 20020412 | Made key fields unique. Reversed writing of db's. In this case |
| | a db write fail will still result in a valid db. The db write code is |
| | not multi-user safe. A new record may be written at the same |
| 20020413 | time by two processes -> fail Set NCACHE to 256, arough for single thread regard |
| ZUUZU 4 13 | Set NCACHE to 256, enough for single thread regen Modified another non-thread safe construct |
| 20020415 | Fix display of PatientID in 'Inconsistent' error message |
| 2002071 <i>3</i> | The display of Fatientia in meonsistent effor message |

| 20020416 | Made UID generator configurable through UIDPrefix in dicom.ini. Made all instances of time unsigned. Note: |
|----------|--|
| | accesstime in the db is signed int: problem around 2038 |
| 20020418 | Added TimeStamp, Flags, and Spare fields on all dbs for future use |
| 20020430 | Fix in spare fields: name was reserved in some odbc implementations |
| 20020515 | Process all db fields; enter (1) Modality into StudyModality |
| 20020517 | Modality is merged into StudyModality without size limit (enforced by sql server) |
| 20020518 | Skip missing VR's again; max nr fields to 30; fix reading of NULL fields (clear s[][]) |
| 20020519 | Also skip writing empty VR's (vr->Length==0); made FixPhilips configurable (default 1). Remove / from date to allow writing mm/dd/yyyy into sql server |
| 20020522 | Test on empty Modality vr |
| 20020529 | Added PRIMARY KEY to key DB fields (needed for replication) |
| 20020529 | Initialize Tables now has mode parameter (0=normal, 1=simple) Do not make Index for primary keys (is done automatically) |
| 20020609 | Added compression modes 3 and 4 |
| 20020802 | Simplified rmdir code and allow multiple subdirectories |
| 20020804 | Use PATHSEPCHAR where possible |
| 20020806 | Fix: cleanup entries of refused item in database |
| 20020819 | Added better UID generation |
| 20021016 | Use patid in SaveToDatabase and GetFileName query (both test for rev5 or higher of the database) |
| 20021017 | Allow set of UIDpostfix from extern (-c option of dgate) Removed creation of unused tables |
| 20021020 | Added [to MakeSafeString; removed " Note: VR's containing ', ? give spurious inconsistency warning when rewritten |
| 20021028 | Also removed dropping of unused tables; reversed table search to imagepat in FindDBE. Made inconsistent birtdate a severe error message (added ***) |
| 20021110 | Made date range inclusive (bug reported by Aaron Cann) |
| 20030113 | Added PatientQuerySortOrder etc overrides for sorting |
| 20030205 | Fix potential empty patient ID and SOP problems in GetFilename |
| 20030321 | Extra check on vr!=NULL in SaveToDatabase |
| 20031104 | Added \\ to MakeSafeString |
| 20040301 | Do not double \\ when allready doubled |
| 20030425 | Added DoubleBackSlashToDB control for \\ |
| 20040528 | Pass patient ID in RemoveFromPacs and Enable KeyOnAll |
| 20040529 | Implemented faster delete from database |
| 20040530 | Pass a field to query in delete - obligatory for sql server |
| 20040601 | Removed enable KeyOnAll - added some more checks in NewDeleteFromDB |
| 20040609 | Check for DB revision for fast delete from database queries |
| 20040610 | Truncate too long VR's before putting into db; log to pacstrouble |
| 20040623 | Fix for non-DBASE datasources in 'UpdateOrAddToTable' |
| 20040626 | Added study and series UID to getfilename interface |
| 20040713 | Added FixKodak: replace pat 0nnnnnn with nnnnnnn |

| 20040722 | Defaults for FixKodak and FixPhilips to 0 (!) |
|----------|--|
| 20040930 | Added multiple UID matching: UID\UID\UID in |
| | BuildSearchString (list truncates at maximum length) |
| | SetString now returns a char * which is newed (with lots of |
| | extra space for MakeSafeString which is done in-place) if Max |
| | length is passed 0. DICOM2SQLQuery has no max length |
| | anymore |
| 20041003 | Trucated printfs of SqlStatement |
| 20041029 | Added MergeUIDs routine |
| 20041101 | Added NewDeleteSopFromDB |
| 20041220 | Fix: in 'RemoveFromPACS', an even PatientID was not zero- |
| | terminated!! |
| 20050109 | Adapted for linux compile |
| 20050111 | Added ctype.h (for mingw) |
| 20050205 | Added counters for database activity |
| 20050206 | Allow empty DBE in ConstructVRFromSQL: used to get |
| | ObjectFile and Device in query |
| 20050401 | Added WorkListDB and WorkListTableName |
| 20050404 | Dicom types DT_START/ENDSEQUENCE are ignored during |
| | table creation/adding to table |
| 20050414 | Allow undefined worklist database; |
| | Delete patient will delete worklist entries as well (but needs at |
| | least one image) |
| 20050417 | Delete from DB will also delete worklist as patient goes |
| 20050826 | Added mode 2 for initializetables: clear/create worklist only |
| 20050831 | Mode 0 and 1 will now not delete worklist if it contains data |
| 20050831 | VerifyIsInDBE will not return DT_START/ENDSEQUENCE |
| 20050901 | Do not call FixImage in SaveToDataBase: is done in |
| | SaveToDisk before |
| 20051121 | Enabled SQLRealSize because SQLResultLength does not |
| | work in PostGres BindField |
| 20051123 | Fixed it, and only enable it when #ifdef POSTGRES |
| 20051204 | Disabled it, fixed postgres driver instead |
| 20051210 | GetFilename returns FALSE for an image that has no filename |
| | or device set |
| 20051212 | Clear update cache when any records deleted - drastic but safe |
| 20051216 | Small fix in above |
| 20051217 | Use new VR::ReAlloc method to replace data in VR |
| 20051218 | Fix study modality when DoubleBackSlashToDB=1; changed |
| 20051220 | modality search |
| 20051228 | Truncate invalid trailing spaces (>1) from patient ID. Fiximage |
| 20060210 | warns to SystemDebug |
| 20060210 | Removed order: first remove spaces and then fix the patient ID |
| 20060220 | because patient ID consisting of 14 spaces caused huge troubles |
| 20060220 | Check max 50 fields when update; fix Inconsistent check for |
| 20060607 | DoubleBackSlashToDB |
| 20060607 | Fix character translation for entering *?%[' into sql using |
| | MakeSafeStringValues. Fix consistency check for these |
| 20060607 | characters as well (thanks Robert Chrzan) |
| 20060607 | Added "not null" to "PRIMARY KEY" to satisfy Sybase (thanks Margin Litcherski) |
| 20060618 | (thanks Marcin Litoborski) |
| 20000018 | Added not null to UIDmods as well, unified case of DICOMWorkList table name (may be done for other tables as |
| | well) (thanks Marcin Litoborski) |
| | well) (mains matem diouniski) |

| 20060618 | Remove "added by MakeSafeStringValues prior to |
|-----------|---|
| | inconsistency check (thanks Robert Chrzan) |
| 20060621 | Increased size of s from [50][255] to [51][256] in |
| | UpdateOrAddToTable fixes VirtualQuery crash |
| 20060628 | AddToDatabase has JustAdd parameter: skip one unnecessary query |
| 20060706 | Replaced faulty new vr construct when doing consistency |
| | check: faulted on Linux |
| 20061213 | Protect Clear_UpdateCache with critical section |
| | Fixed nasty bug in NewDeleteFromDB. MergeUIDs, |
| | NewDeleteSopFromDB: Query without bindfield overwrites |
| | previous bound strings! |
| 20070123 | Fixed GetFileName for patientid with '; Recoded some of the |
| | inconsistency checking: now no failure on patient ID (link) with |
| | • |
| 20070131 | Fixed GetFileName for all patientid's ;->>> |
| 20070201 | Fixed (unused) UpdateAccessTimes for weird patient IDs |
| 20070210 | Added CheckDuplicates to UpdateOrAddToTable: used on |
| | DicomStudies to catch inconsistent patientID |
| | Enabled KeyOnAll on UpdateOrAddToTable: only delete exact |
| | records (needed if inconsistent patientID) |
| 20070308 | Changed to set patient ID to 0 for anonymized patients |
| 20070315 | Merged; also noted that changed possible use of AND at start |
| 20071027 | of sql where |
| 20071027 | Also truncate too long date fields with error message; added |
| | AllowTruncate: if sql name in comma separated list: warning only else ***error |
| 20071118 | Adapted for 64 bits (use SQLLEN for BindField) |
| 20080302 | Fixed case of DICOM table names |
| 20080302 | Fixed typo in above change; fixed worklist delete for patients |
| 20000317 | with space in ID |
| 20080817 | Added WorkListReturnsISO_IR_100 flag (default 1) |
| 20080818 | DbaseIII check now uses DB flags, not PATHSEP in |
| | datasource name; Added experimental DT_MSTR: multi-value |
| | entry, e.g. query on 'PET' matches 'PET\CT' if studymodality is |
| | given type DT_MSTR instead of DT_STR. Note: not |
| | implemented for DBASEIII |
| 20080819 | Added warning when querying DT_MSTR field on dbase |
| 20080902 | added EnableComputedFields (default 0) |
| 20080910 | Added create Patient ID for 0 length ID (old Picker CT) |
| 20080910 | Missing patient ID is now not filled with "0" but with |
| 20001104 | PatientName + Date Fixed erash in UndeteOr AddTeTable due to missing BindField |
| 20081104 | Fixed crash in UpdateOrAddToTable due to missing BindField |
| 20081120 | (1,) Strip all trailing spaces of modelity prior to marging; some |
| 20081120 | Strip all trailing spaces of modality prior to merging: some scanners add more than 1; Added UseEscapeStringConstants |
| 20081124 | Blocked RemoveFromWorld when 0 images found for safety; |
| 20001124 | default SQLServer to "" = black hole |
| 20090216 | Added ChangeUIDBack and ChangeUIDTo |
| 20090616 | Create index for UIDMods on OldUID; protected UIDMod |
| _0070010 | functions with ChangeUIDCritical; Convert ** query field to *; |
| | old efilm version seems to create those |
| 20090616 | Include file stuff |
| 200912308 | Merged changes by Bruce (bitsltd) |

| 20091231 | Changed char* to const char* and cast time_t to int for gcc4.2 |
|----------|--|
| | warnings |
| 20100111 | Merged |
| 20100123 | Added DT_FL and DT_FD types, added swapping in |
| | ConstructVRFromSQL, and fix DT_UINT32 and DT_UINT16 |
| | there, size is 4 and print as %u |
| 20100123 | fixed typo for Linux compile Time -> time |
| 20100124 | fixed typo in ChangeUIDBack |
| 20100124 | Use MyGetPrivateProfileString |
| 20100309 | Added double parentheses (gcc4.2 Warnings) |
| 20100309 | Changed int to unsigned int, commented out unused variables |
| | (gcc4.2 Warnings) |
| 20100324 | swap for big endian only. |
| 20100619 | Added #ifndefs (gcc4.0 Warnings) and UNUSED_ARGUMENT |
| 20100717 | Merged; but still use deprecated atof as change would not |
| | compile |
| 20100726 | Added cast at atof to supress warning |
| 20100802 | Added SUBMISSIONS table |
| 20100816 | Allow dicom.ini and other files to be moved. |
| 20100816 | removed (a) from #ifndef EnterCriticalSection(a) etc |
| 20100818 | Merged jd SUBMISSIONS table |
| 20100823 | Merged and simplified basedir logic |
| 20101121 | Do not make AccessionNumber primary key in worklist |
| 20101212 | Made FixKodak global |
| 20101227 | Added \ prior to _ in query value |
| 20101229 | Modified _ to [_] etc; presence of [now also forces LIKE |
| 20101229 | % -> [%];> [_]; [-> [[];] -> []] |
| 20110105 | Moved local routines to vrtosql: MakeSafeString, |
| 20110105 | DICOM2SQLQuery, BuildSearchString, BuildColumnString |
| 20110105 | Use MakeSafeStringValues for exact match; added DICOM2SQLValue |
| 20110105 | Removed SUBMISSIONS table |
| 20110106 | Fixed regen crash due to missing vr==NULL check in |
| | MakeSafeStringValues |
| 20110111 | Extended check for vr in MakeSafeStringValues |
| 20110115 | Added DeleteUIDChanges |
| 20110214 | MakeSafeStringValues 20110111 change broke dbextract; |
| | fixed now (return " if vr invalid or empty) |
| 20110326 | Fixed crash in SetString on findscukey 0010,0010key |
| | 0010,0020 127.0.0.1 5678 |
| 20110419 | Added sequences to MakeCopy (to fix bug: "save to" did not |
| | write sequences) |
| 20110603 | Fully init vr used for MakeSafeString |
| 20120214 | Added WorkListReturnsISO_IR to also allow setting 192 |
| 20130806 | Added FixID (default 1), set to 0 to disable any ID fixing, |
| | data without patient ID skips write to patient table - |
| 0010000= | experimental |
| 20130807 | Worked on accepting data without patient ID if |
| 20120000 | AllowEmptyPatientID = 1 |
| 20130808 | Added substitution of patient ID for database purpose if |
| 20121012 | AllowEmptyPatientID = 1 Default TruncateFieldNames set to 10 |
| 20131013 | Default TruncateFieldNames set to 10 |

VRTOSQL.CPP (part of DGATE.EXE)

| 20000629 | Logging of trouble now starts with '***' |
|----------|---|
| 20010330 | Added a few debug printf's |
| 20010420 | Fixed memory leaks in all query levels |
| 20020519 | Clear BindField result strings before reading (NULL does not |
| | read) |
| 20021028 | Restructured queries to give lowest level of de-normalized |
| | databases. Fixed sorting on PatientName in denormalized study |
| | query |
| 20021030 | Reversed this again apart from study level because SQL server |
| | becomes very slow |
| 20030113 | Added PatientQuerySortOrder etc overrides for sorting |
| 20030113 | Added in querycolumns (even if already present); |
| 20030114 | tested for SQL server, requires testing for other datasources |
| 20030122 | Remove unused entries from Tables string in queries |
| 20040930 | Started adapt such that query strings etc and not limited in |
| 20040730 | length. For now: query string max 8192 (here and in |
| | odbci.cpp); sql statement max 16384 (in odbci.hpp) |
| | * * * * * * * * * * * * * * * * * * * |
| | Enough for query with one multiple values UID of about 100 |
| | images (list truncated if too long). Added safestreat protection |
| 20041002 | of SearchString |
| 20041003 | Truncated debug prints, malloc strings at image level. |
| 20041012 | Analysed string lenghts; limited 'records =' debug log |
| 20041013 | Used MAXQUERYLENGTH |
| 20050107 | Removed UNIX flags: solve difference in database interface |
| 20050206 | Image query can send filename and device in 0x9999,0x800 / |
| | 0x0801 |
| 20050401 | Added QueryOnModalityWorkList; - todo - put selected items |
| | into sequence 0040,0100 |
| 20050404 | Take query for Scheduled Procedure Step from sequence, put |
| | results into sequence |
| 20050414 | Made sequence unfolding for worklist more generic - accepts |
| | any number of and nested N=1 sequences. This is correct |
| | behavior for query input, but limited for query results |
| 20050417 | Removed unused variable |
| 20050831 | Fixes in worklist code: is ok for all OFFIS tests except 1 (empty |
| | seq not returned) and 10 (undef non-empty seq takes one entry |
| | from higher level) - good enough for initial release? |
| 20050901 | Fix for test 10: allow undefined sequence in query |
| 20050907 | Merged change by Hans-Peter Hellemann: fix missing max() |
| | macro |
| 20051229 | Debug log show records of all queries. DumpVR only left in |
| | worklistquery and shows sequence layout |
| 20051230 | Removed 2 forgotten dumpvr's |
| 20050103 | Added debug info from testing phase inside nested sequences |
| | for modality query |
| 20050211 | Added empty required modality sequences 8,1110 and 8,1120 |
| | when not there |
| 20050224 | Fixed modality worklist query: empty result sequences were not |
| | handled correctly (Thanks Tony Tong) |
| 20050311 | Worklist change was tested OK with Agfa (thanks Frank |
| | Grogan), cleaned debug log a bit |
| | <i>O</i> ,, |

| 20060607 | Fix grash when goding ampty sequence as last item in worklist |
|----------|--|
| 20000007 | Fix crash when coding empty sequence as last item in worklist query (thanks Francois Piette) |
| 20061219 | Small fix in layout debug log |
| 20001219 | Adapted for 64 bits (use SQLLEN for BindField) |
| 20071118 | Fixed bug found by lare: worklist sql syntax error (fields start |
| 20080817 | with ,) when 1st item is sequence; Fixed bug found by Alberto |
| | Smulders: sometimes sequence level in response would not |
| | come down; The problem was that a higher levels the reported |
| | sequence level was inconsistent with the 1st level; Changed |
| | CodeSequence stop criterium and level coding for deeper |
| | levels; now works with varies sequence combination; Added |
| | WorkListReturnsISO_IR_100 flag (default 1) |
| 20080818 | DbaseIII check now uses DB flags, not PATHSEP in |
| 20000010 | datasource name |
| 20080901 | Implemented 'Number of Patient Related Studies' (0x0020, |
| 20000301 | 0x1200) etc |
| 20080902 | Fixed that option for VirtualServers; added |
| | EnableComputedFields |
| 20080905 | Added void* cast for deivr change |
| 20081016 | Fixed for WC compile |
| 20081121 | Fixed ISO IR 100 |
| 20090930 | Fixed ImageQuerySortOrder: crashed on C-MOVE, because |
| | sortcolumn was inserted before the filename |
| 20091005 | Fixed ComputeField: return VR was used during cleanup |
| 20091231 | Changed char* to const char* for gcc4.2 warnings |
| 20100111 | Merged |
| 20100309 | Added double parentheses (gcc4.2 Warnings) |
| 20100309 | Changed int to unsigned int, commented out unused variables |
| 20100706 | (gcc4.2 Warnings) Init Level |
| 20100706 | Merged |
| 20100717 | Delete 9999,0802 virtualservermask control VR from searches |
| 20100022 | and pass it to ComputeField |
| 20100823 | Fixed compile for ms8amd64 |
| 20100901 | Rephrased "Failed on VR Search" |
| 20101003 | Delete 9999,0900 script control from queries |
| 20101120 | Delete 0002,0010 transfer syntax from queries |
| 20101127 | Added CountOnly mode to accelerate e.g., |
| | NumberOfStudyRelatedInstances queries |
| 20110105 | Pass database to MakeSafeString to allow db_type dependent |
| | processing; use LIKE only when needed |
| 20110105 | Moved local routines here: MakeSafeString, |
| | DICOM2SQLQuery, BuildSearchString, BuildColumnString |
| 20110603 | Fully init vr used for MakeSafeString |
| 20110605 | Allow '*' for query |
| 20120214 | Allow WorkListReturnsISO_IR_100 to be any value (e.g., 192) |
| 20120422 | Fix search in DT_MSTR with embedded _ to use =, was a |
| | LIKE that failed for MySQL |
| 20120624 | Fix DT_MSTR for DoubleBackSlashToDB (mysql and pgsql): |
| 20120501 | requires 4 backslashses (!) |
| 20120701 | Fix in BuildSearchString for UseEscapeStringConstants for |
| | DT_MSTR and DT_DATE |
| | |

| 20000211 | Removed MajorEvent and MinorEvent instances of 'Debug'. | |
|----------------------------------|--|--|
| 20000211 | Cosmetics. Added UserLog and TroubleLog. | |
| | Added timestamp option. | |
| | Added Critical Section when printing to file or stdout. | |
| 20011110 | Post release 1.3.10: keep log files closed while working | |
| 20021027 | Avoid crash when logfile cannot be opened | |
| 20041003 | Note: max 1200 chars (use %.1000s to print long strings) | |
| 20060618 | Define _SH_DENYNO if needed | |
| 20070105 | Added timestamp for linux users (thanks, Mark Pearson) | |
| 20070406 | Use reentrant ctime_r and localtime_r when available | |
| 20070408 | Protected entire .printf() with global critical section | |
| 20070712 | Closed/opened critical section where recursive call to printf | |
| | would hang linux version with sqlite | |
| 20071120 | Use fputs instead of fprintf at end: otherwise % removed | |
| 20080821 | Fix for Solaris SUNwspro compiler | |
| 20090620 | Include file stuff | |
| 20091231 | Changed char* to const char* for gcc4.2 warnings | |
| 20100111 | Merged | |
| 20100125 | Removed linux warning | |
| 20100309 | Removed Windows only variable from unix build. | |
| 20100619 20100717 | Added #ifndefs made Port a local lPort (gcc4.0 Warnings) Merged | |
| 20100717 | removed (a) from #ifndef EnterCriticalSection(a) etc | |
| 20100010 | Temoved (a) from #finder Enterentical Section(a) etc | |
| DPRINTF.HPP (part of DGATE.EXE): | | |
| 20000211 | Removed MajorEvent and MinorEvent instances of 'Debug' | |
| 20000211 | Added UserLog and TroubleLog | |
| | Added bAddTimeStamps member | |
| 20011110 | Replaced MessagePipeName by FilePipeName | |
| | Blocked out critical section | |
| 20091231 | Changed char* to const char* for gcc4.2 warnings | |
| 20100111 | Merged | |
| 20100619 | Fix gcc4.0 warnings and prevented coping of classes with | |
| | pointers. | |
| 20100717 | Merged | |
| REGEN.CP | PP (part of DGATE.EXE): | |
| 10000227 | mut massage in one Contain Dalana for LIDD | |
| 19980327: | put messages in one SystemDebug for UDP message layout | |
| 19980415: | changed messages to OperatorConsole | |
| 19980605: 19981218: | Need to add regen for optical devices and cachedevices !!!!! temp use pdu.load | |
| 19991218. | Replaced PDU.Load by LoadImplicitLittleEndian in | |
| 19990108. | RegenToDatabase | |
| 19990109: | Set HeaderOnly flag for LoadImplicitLittleEndianFile to | |
| 19990109. | TRUE. Added regen of CACHE and JUKEBOX devices; | |
| | NOTE: full regen imposes name restrictions on JUKEBOX and | |
| | CACHE directories | |
| 19990117: | Filenames with .v2 are assumed raw; added extension .dcm for | |
| | chapter 10 format | |
| 19990317: | Parameters of LoadImplicitLittleEndianFile have been changed | |
| 19990521: | .img files react same as .dcm files | |
| | | |

| 20000629: | Logging of trouble now starts with '***' |
|------------------------|--|
| 20010415: | Added SubDir parameter to regen to allow regen of one |
| | directory only |
| 20010416: | Added RegenFile - to allow modification of images |
| 20011109: | Made file extension checking case insensitive |
| 20020409: | Experimental multithread version. |
| 20020413: | Made NTHREADS variable and tested. Time to regen 6900 |
| | files about 3 min and 40 s. |
| 20020415: | Tested with new loaddo code by ljz. Note: multithread works |
| | and has allowed fixing MT some errors in other modules. |
| | However, due to a problem in concurrent db writing (in |
| 20020612 | UpdateOrAddToTable) it should not be used clinically. |
| 20020613: | Removed some warnings |
| 20020802: | Simplified regen code; traverse subdirectories recursively |
| 20020004 | (allow e.g., e-film data format) |
| 20020804: 20021014: | Use PATHSEPCHAR where possible |
| 20021014. | Exclude directory PRINTER_FILES during regen (contains slices without ID and such) |
| 20030120: | Removed some warnings |
| 20030726: | Attach VRType to PDU for implicit little endian support |
| 20030700: | Allow longer filenames |
| 20040614: | Do not regen CACHE devices; first regen JUKEBOX then |
| 200.001 | MAG (e.g., in historical order) |
| 20050118: | Adapted for LINUX compile |
| 20060628: | AddToDatabase has JustAdd parameter |
| 20070210: | Increased maxvrsize for regen v2 files from 0x400 to 0x4000 -> |
| | UIDs were sometimes not found |
| 20070308: | Ignore .DS_Store for DARWIN |
| 20091231: | Changed char* to const char* for gcc4.2 warnings |
| 20100111: | Merged; fixed WIN32 changes |
| 20120630: | Regen now allows files without 3 letter extension |
| PARSE.CPP | (part of DGATE.EXE): |
| 19980321: | Added define TRUNCATEFIELDNAMES for DBF |
| 19900321. | compatibity (apply in makefile) |
| 19980325: | Added TruncateFieldNames entry in dicom.ini to allow DBF |
| 17700323. | compatibility |
| 19980327: | Added MaxFieldLength entry in dicom.ini to allow DBF |
| 1,,000=7. | compatibility |
| 20001105: | Renamed some enums and variables to allow compile in one |
| | big chunk |
| 20010713 | Renamed DT_UINTxx to DT_INTxx as temp fix for bug in |
| | LEX.CPP |
| 20010829 | Undone above change as LEX.CPP has been fixed by ljz |
| 20050107 | Added include file gpps for GetPrivateProfileString |
| 20050401 | Added WorkList Support |
| 20050404 | Added DT_START/ENDSEQUENCE to code sequence in |
| • • • • • • • • | WorkList table |
| 20050902 | Added HL7 column to be used for WorkList table |
| 20050908 | Fixed pointer error that crashed linux version |
| 20080818 | Added DT_MSTR |
| 20100122 | Hex2Dec incorrect for uppercase HEX numbers! |
| | ALTERNATION DE L'ARTIN DE L'ANTIQUE |

Added FL and FD types

20100123:

20100125: GetPrivateProfileString -> MyGetPrivateProfileString

20100309: Changed int to unsigned. (gcc4.2 Warnings)

20100703: Merged

LEX.CPP (part of DGATE.EXE):

| 20000822 | Created |
|----------|---|
| 20000823 | Support cases where the input-file is empty or contains only |
| | white-space. |
| 20010716 | Fix: Allow TOKENs that are substrings of other TOKENs. |
| 20050103 | Changed include file to lower case (for linux) |
| 20050108 | Removed window.h for linux compile |
| 20050118 | GNU C++ knows BOOL etc, do not redefine |
| 20090620 | Include file stuff |
| 20100120 | Fixed const issue detected with ms8 |
| 20100309 | Changed int to unsigned int, add ui as unsigned int in for loop |
| | (gcc4.2 Warnings) |
| 20100619 | Fix gcc4 warnings, improve speed and |
| | UNUSED_ARGUMENT. |
| 20100717 | Merged |
| | |

LEX.HPP (part of DGATE.EXE):

| Changed char* to const char* for gcc4.2 warnings |
|--|
| Merged |
| Added no-copy to the classes. |
| Merged |
| |

NKIQRSOP.CPP (part of DGATE.EXE):

| 19990317 | NKI-specific code moved here |
|----------|--|
| 19990903 | Implemented NKI MaxRowColumn VR in DCO |
| 19990906 | Improved implementation of MaxRowColumn |
| 19991022 | Changed the root of NKI-made UIDs to the official one |
| | supplied by Medical Connections(UK): |
| | 1.2.826.0.1.3680043.2.135.1066.xxxxxxxxxxx |
| 19991122 | Added NKI-CompressionMode 2: safer, with CRC checks |
| 20000131 | Regardless the FileCompressMode in Dicom.ini, always send |
| | images compressed (mode=2) when communicating with an |
| | NKI application. |
| 20001105 | Fixed where malloc and new were mixed (vr->data) |
| 20001106 | Use delete [] operation for vr->Data |
| 20001106 | Temporary fix of BC leak in CompressNKI and |
| | DecompressNKI |
| 20001120 | Fix bug - vr->data was reallocated without changing vr->length |
| 20001127 | Fix: Crashes happened when more than one |
| | ServerChildThread' was active. m_pDCO is wrongly shared by |
| | all threads !! |
| 20010424 | Plugged in faster and safer decompress |
| 20010426 | Fixed leak when connection is aborted |
| 20010429 | Interleaved CRC computation with compress code (factor 2 |
| | faster) Added GetADDO to allow read ahead within calling |
| | program |
| 20010501 | Merged ljz's change of 20010426 |

| 20010502 | Added extrabytes pointer to Read and RetrieveOn |
|----------|---|
| 20010502 | Added vr(9999,0300)=SliceLimit: send at most so many slices |
| 20010502 | Changed this vr to (9999,0500)=SliceLimit |
| 20011219 | Added extra check in case other manufacturers than NKI use |
| | VR (0x7fe0, 0x0010), such as ACUSON |
| 20020317 | Replace true by TRUE |
| 20020415 | Added error handling on ProcessDDO |
| 20020429 | fixed reporting of number of complete slices (now starts with 1) |
| | return cancel status if C_STORE failed |
| 20020609 | Added compressor modes 3 and 4 |
| 20020609 | Added VR (9999,0600): MaxCompressionLevel (default 2) |
| 20020612 | Note: This level (max of 4) is also used when downsizing |
| 20020613 | Exported DecompressNKI and CompressNKI |
| 20020619 | Damn! ELSCINT uses (0x7fe0, 0x0010) too (see modification |
| 20020020 | on 20011219). Extra check on zero-length pixeldata |
| 20020930 | Fixed SliceLimit VR Removed ROBLANDC language construct to fix |
| 20021016 | RemovedBORLANDC language construct - to fix downsize with BC55 |
| 20021115 | Added Generic style retrieve classes; print error messages from |
| 20021113 | c-move |
| 20030522 | Added function ComputeCRC |
| 20030605 | Fix in DecompressNKI: dgate crashed when DCMTK's |
| 20030002 | 'storescu.exe' wants to send an NKIcompressed image to dgate; |
| | it refuses to send the pixeldata! |
| 20030701 | QualifyOn now also has compression parameter; transfer syntax |
| | work in progress |
| 20030703 | Tested recompress functions |
| 20030704 | Disabled decompression in ProcessDDO for non-nki clients; is |
| | done by recompress. When downsizing use |
| | DecompressImage(); also supports JPEG; Removed |
| | MaybeRecompress. Recompression for NKI clients only when |
| | downsizing; otherwise as specified in acrnema.map |
| 20030705 | Moved recompression out of ProcessDDO into |
| | StandardRetrieveNKI::Read. Skip recompression to same level |
| 20020706 | as incoming |
| 20030706 | Optional filename parameter for recompress (not used yet); set |
| 20030706 | env for offis tools Attack VPT me to PDI 's for implicit little andian sympat |
| 20030700 | Attach VRType to PDU's for implicit little endian support Removed DCMDICPATH; is not needed |
| 20030709 | Allow longer filenames |
| 20030905 | Note: recompressfile; DecompressImageFile and |
| 20030702 | CompressJPEGImageFile do not allow spaces in filename |
| 20040401 | Added Changed and ActualMode flags to compress routines; |
| _00.0.01 | only give compress message if something changed |
| 20040401 | Set maxcompression to 4 for NKI send |
| 20040403 | Added own SaveDICOMDataObject as in dgate.cpp |
| 20040406 | Also copy TypeCode in DecompressNKI when converting |
| | (0x7fdf, 0x0010) to (0x7fe0, 0x0010); Make TypeCode of |
| | (0x7fdf, 0x0010) OW instead of OB, because OFFIS refuses to |
| | compress OB |
| 20040406 | Always use EXPLICIT syntax for jpeg, fix v2 always use |
| | DUMP; Use -F +ti option for dcmdjpeg for writing to v2: |
| | creates raw dump, implicit; Refuse to jpeg compress V2 files |

| | and images != 16 bits; \n is all messages; Fix error handling of |
|----------|--|
| | CompressJpegImage |
| 20040530 | Removed unused variable |
| 20040722 | Added "nj" compression: leaves JPEG as is; else |
| | MAXNKICOMPRESSION |
| 20041101 | Added built-in JPEG and RLE decompressor |
| 20041102 | Fix problem with external JPEG compression: clear transfer |
| | syntax prior to save for OFFIS tools with |
| 20041102 | DICOM_CHAPTER_10_EXPLICIT |
| 20041103 | Added k1,k2,k4,k8 compressors: downsize to |
| 20041112 | 1024,512,256,128 pixels if bigger to start with |
| 20041112 | Called AE SERVER~xx in C-MOVE lets xx override outgoing |
| | compression as well (e.g., call CONQUESTSRV1~k4 to always get images downsized to 256x256) |
| 20050102 | Added NOINTJPEG flag to allow compile through total.cxx |
| 20050102 | Changed include file to lower case (for linux) |
| 20050103 | Adapted for linux compile (work in progress) |
| 20050109 | Added configurable TCPIPTimeOut |
| 20050118 | replaced thread local storage under linux with variables in |
| | object |
| 20050119 | added rudimentary support to start external (de)compressors |
| | under linux |
| 20050121 | Changed filename to lower case |
| 20050122 | Improved external jpeg support under Linux: load dictionary, |
| | wait until ready |
| 20050130 | Added To8BitMonochrome and ToGif |
| 20050204 | Small fix in ToGif for non-square images; also interpret |
| | RescaleIntercept as float |
| 20050205 | Added counters for compression activity |
| 20050206 | Optimized downsizing: do not decompress if no downsizing to |
| 20050206 | occur |
| 20050206 | Note: replaced thread local storage under linux with variables |
| | in object is incorrect. Under linux, the server now can also |
| | serve one at a time. Fix for color to gif; added limited auto scaling in 16 bits to gif. |
| 20050211 | Now really removed need for thread local storage |
| 20050211 | Added "vX" compression (same as as is) |
| 20051217 | Use system() to call on offis apps in linux (now works) |
| 20051217 | Use new VR::ReAlloc method to replace data in VR; fixed 2 |
| 20001217 | float warnings |
| 20051229 | Fixed several leaks in (jpeg)compression code; changed alloc |
| | for nki compression |
| 20051230 | Added +sr option to demcjpeg: compress without changing |
| | rescaleslope/intercept |
| | This option is required for our viewers: slices must all have |
| | same rescale |
| 20060219 | Removed warning in writegif |
| 20060222 | Added extra checks (not on ID strings) to pass as NKI |
| | compressed data |
| 20060311 | demejpeg opts string got truncated (thanks Rainer Libowski) |
| | fixed unused CompressJPEGImageFile (wrong exe called) |
| | external decompress temporary files now in printer_files |
| | (thanks Rainer Libowski) |

| 20060324 | Added StripGroup2 option to recompress; strip group 2 from |
|----------|---|
| | outgoing c-stores if not compression "as" or "is" |
| 20060328 | Use IsAbstractSyntaxAccepted(iUID) to test if host accepts |
| | image |
| 20060402 | Fix crash when recieving or dropping jpeg compressed color |
| | images. Consider not removing transfer syntax (0x0002, |
| | 0x0010) prior to dcmdjpeg/dcmcjpeg. Would fix problem with |
| | external decoding color jpeg images |
| 20060402 | Changed IsAbstractSyntaxAccepted(iUID) test back (thanks |
| | Andrej Savelov) |
| 20060405 | That was not the problem |
| 20060618 | Tested IsAbstractSyntaxAccepted - seems to work. Removed |
| | need for min() |
| 20060619 | Do not remove transfer syntax before decompression |
| | (20060402 suggestion). Maintain original object when |
| | decompression fails, changed wording of message.; Only |
| | complain about internal decompressor for jpeg |
| 20070104 | Export automatic SaveDICOMDataObject |
| 20070113 | Never delete transfer syntax (was left in CompressJpegImage, |
| 20070113 | solves coding error in jpeg store). Tested with \$c server debug |
| | command |
| 20070210 | Export MaybeDownsize and check on 0 for passed size |
| 20070210 | Added several debug prints in retrieve, e.g. at bail out because |
| 20070307 | connection dropped |
| 20070308 | removed #include <wait.h> from DARWIN</wait.h> |
| 20070308 | Send 0000,1030 (MoveOriginatorAE) and 0000,1031 |
| 20070314 | (MoveOriginatorMessageID) in SS->Write as result of Move |
| 20070315 | · · · · · · · · · · · · · · · · · · · |
| 200/0313 | Merged bcb DARWIN stuff; Set TCPIPTimeOut for PDU that |
| 20070216 | moves images |
| 20070316 | Added (color) ToBMP for convert_to_bmp; added level and window to ToGif and ToBMP |
| 20070407 | |
| 20070407 | Use ~p19AZ to override C-MOVE port (adds 136 to port |
| 20070002 | number) |
| 20070902 | WriteGif now cpp |
| 20071027 | Added quotes around filenames passed to dcmdjpeg and |
| | demejpeg: avoids errors with spaces in paths |
| 20071101 | Enabled JPEG compression and decompression of non-16 bit |
| | data |
| 20071104 | Added DecompressNon16BitsJpeg (default TRUE) |
| 20071105 | Restore image when dcmc/djpeg failed to start |
| 20080103 | Added mode 'uj': leave jpeg as is, otherwise uncompress |
| | Added DecompressImage to recompress() |
| 20080820 | Solaris fix (do not use variable name SS) |
| 20081116 | Adapted for very large objects (use unsigned int for length) |
| 20081201 | Added JPG converter |
| 20081203 | Enabled internal decompressor for color, added frame |
| | extraction for jpg etc; Add frame extraction control = 0x09999,0x0201 |
| 20090209 | Added QueryMoveScript callback; removed unused variable |
| 20090325 | Added RetrieveResult converter, impact on performance to be |
| 20070323 | tested |
| 20090412 | Changed jpeg encode image mode to correct BGR RGB mixup |
| 20090412 | Added modes 's0' to 's9' call script CompressionConverter0 to 9 |
| 20090518 | Added modes ka, kb and kc to downsize to 64, 32 and 16 |
| 20070310 | raded modes Ra, Ro and Re to downsize to 04, 32 and 10 |

| 20090921 | Added ExtractFrames |
|----------|--|
| 20090927 | Stop jpg compression for PR SR and RT |
| 20091231 | Added HAVE_LIBJPEG (version 6c!) and |
| | HAVE_LIBJASPER for external library support (beta for now) |
| | Changed char* to const char* and cast time t as int for gcc4.2 |
| | warnings |
| 20100111 | Fixed downsize for 32 bits pixel; bcb const; cast of Time() to |
| _0100111 | (int) |
| 20100112 | Merged |
| 20100112 | A few more errors in downsize for 32 bits |
| 20100115 | Fixed DecompressImage compile error if HAVE LIBJPEG is |
| 20100110 | defined |
| 20100118 | Added one missing else in CompressJPEG2K |
| 20100118 | The else was not really missing; added some const |
| | The state of the s |
| 20100120 | Catch jpeg2000 configuration if HAVE_LIBJASPER not defined |
| 20100121 | Blocked out old jpeg decompressor if HAVE LIBJPEG, |
| 20100121 | 31 C 1 = |
| | removed color checks as both decompressors do color now; Made lossy to lossless switch a warning not error in |
| | , |
| 20100122 | CompressImage; Set mode to '1' instead of 1 after switch |
| 20100122 | Note: the HAVE_LIBJPEG code supresses RLE support |
| 20100122 | Added experimental C-CANCEL support for all C-MOVES |
| 20100123 | Added counters for jpeg2000 |
| 20100124 | Added GetNumberOfFrames |
| 20100125 | GetPrivateProfileString -> MyGetPrivateProfileString |
| 20100126 | Include gpps.hpp |
| 20100207 | Fixed ExtractFrame(s) for frames packaged into pixel data |
| | without sequences |
| 20100209 | Run RetrieveResult also for non-nki clients |
| 20100210 | Fix memory leak |
| 20100214 | Merged |
| 20100223 | Combined DecompressImage and DecompressImageFile |
| | Add FUJI_FIX for evil LittleEndianImplicit jpeg compressed |
| | images. |
| 20100224 | Added libopenjpeg to use in place of Jasper, fixed more |
| | warnings (-Wall) |
| 20100227 | After 1.4.16alpha3: crash when jpeg compressing RT object |
| 20100330 | Frames to LIBJPEG, JASPER, and OPENJPEG |
| 20100619 | Many fixes for leaks, allow both Jasper and openJPEG as a |
| | dicom.ini choice (not finished). |
| 20100703 | Merged; snprintf to _snprintf |
| 20100706 | Merged, replaced _snprintf with memcpy. |
| 20100721 | Merged back; fixed a few ascii to int conversions with atoi |
| 20100723 | Merged bcb fixes in new version of ToJPG |
| 20100728 | Installed RLE support with HAVE LIBJPEG, used new deivr |
| | Get's and ChangeVR's |
| 20100815 | Merged; do not use GETUINT8 for US type; added space |
| | =TRUE to setting PixelSpacing; Simplified DecompressRLE |
| 20100815 | Fixed bug 30 in t=2127: YBR FULL 422 images not passed to |
| | demejpg |
| 20100823 | bcb moved that check to the right place |
| 20100824 | Pass local Variable VRs to script engine |
| 20100826 | bcb fixed lossy jpeg2000 for signed data |
| 20100901 | bcb Added fix for PlanarConfiguration=1 data |
| | |

| 20100905 | Removed file functions: now RecompressFile uses Recompress |
|-------------------|---|
| 20100905 | Merged; Added UseBuiltInJPEG flag |
| 20100914 | Fixed RLE decode for frames, added Deplane, DecodePalette |
| 20100010 | for regular and segmented palettes |
| 20100918 | Attempted merged (very difficult as fixes were made in older version) |
| 20100920 | Fixed warnings |
| 20100922 | Merged |
| 20100928 | Fixed ExtractFrame(s) for NKI compressed data |
| 20101003 | Added 9999,0900 script |
| 20101004 | Use updated gif codec; started on animated gif |
| 20101009 | Protected gif coder for out of memory |
| 20101018 | Swap BGR to RGB for ToJPG |
| 20100920 | Fixed j2k decompressing of j2k file instead of just the stream (used by Accusoft Pegasus). |
| 20100923 | ToJPG can be used to create MPG files using external tools |
| 20101116 | Add UL, UB, UI, and UE compression to fix big endian |
| 20101121 | recieve, merged, warnings |
| 20101121 | Merged |
| 20101220 | Fixed color swap for jpg and bmp; fix deplane and depalette are called when needed |
| 20101227 | Fixed 'un' in bcb 'ui' etc code in recompress |
| 20110106 | Fix ToBMP for linux 64 bits (used long) |
| 20110119 | Use ExtendedPDU_Service to pass scripting state |
| 20110320 | Fix downsize & tojpg when #bytes in image is odd; Only apply |
| 20110226 | RescaleIntercept for CT in tojp |
| 20110326 | Increased temp string in linux ExecHidden that caused |
| 20110226 | decompress crash |
| 20110326 | Increased temp string in linux ExecHidden that caused decompress crash |
| 20110413 | Allow test of jpeg or rle decompression even if no group 0002 |
| 20110413 | data |
| 20110414 | Moved jpeg decompression height errors to SystemDebug |
| 20110419 | normalized line endings; taken out superfluous prints |
| 20110423 | Fixed "UJ" broken when UI etc were introduced |
| 20110502 | always write bitstored 0x0028,0x0101 when writing highbit |
| | 0x0028,0x0102 |
| 20110904 | Fixed J1 and J2 distiction |
| 20110926 | Added DcmConvertPixelData for tomono and crop |
| 20111010 | Fix in J1 and J2 distiction fix: '2' was not translated into 2 |
| | invalidating subs. tests |
| 20111011 | Fix in SaveDicomDataObject (archive): 'cannot rewrite in v2 |
| | format' led to a double DDO->Free |
| 20111018 | Added TempDir ini file option |
| 20111022 | Added private move command option 0x9999, 0a000 |
| | ConquestMoveOriginatorAE; let retrieveconverter work with |
| 20111112 | command |
| 20111113 | Restored the original float DeYBRFULL code; the modified |
| 20120214 | code did not work; read VR again, is used for deplane Allow size=0 in DICOM to image conversion |
| 20120214 20120327 | Fix LossyQuality entry in dicom.ini for built-in JPEG |
| 20120321 | compression |
| 20120401 | Fix in print (crashes when modality not passed) |
| 20120401 | Default UseBuiltInJpeg properly to 0 |
| 20120102 | 2 diment of the property to o |

| 20120624 | Set Header (0028,2110) to 01 after lossy compression |
|----------|--|
| 20120624 | Do not modify bitsstored, highbit and number of bits after |
| | compression |
| 20120628 | Some layout of debug prints |
| 20120630 | Reverse .dcm check (dicom if not .V2); Pass lossy quality to |
| | CompressJPEGImage from compression string |
| 20120723 | Fixed 'I' or 'I' to 'I' or 'L' found by bcb |
| 20120918 | Fixed comparison with .v2 in SaveDICOMDataObject() |
| 20121208 | Block deplane if SamplesPerPixel is not 3 |
| 20130218 | JPEG compression did not set right sopclass!!!! |
| 20130823 | Fixed lossy jpeg compression for 12 bits data |
| 20130920 | Corrected the calculation of new pixel spacing in |
| | MaybeDownsize |
| 20131013 | Default UseBuiltInJPEG set to 1; added quality parameter to |
| | ToJPG |

NKIQRSOP.HPP (part of DGATE.EXE):

| 19990317 | NKI-specific code |
|----------|--|
| 20001128 | Fix: Crashes happened when more than one ServerChildThread' |
| | was active. m_pDCO was wrongly shared by all threads !! |
| 20010429 | Added GETADDO to allow optional read ahead withing calling |
| | program |
| 20010502 | Added extrabytes pointer to Read and RetrieveOn |
| 20020415 | ProcessDDO now returns status (to allow compression error |
| | check) |
| 20020613 | Added prototypes for DecompressNKI and CompressNKI |
| 20021115 | Added Generic retrieve classes |
| 20030522 | Added prototype of ComputeCRC |
| 20030701 | QualifyOn now also has compression parameter |
| 20030702 | added ExtendedPDU_Service |
| 20030704 | Changed ProcessDDO parameter to **DDO (for recompress) |
| 20050118 | replaced thread local storage under linux with variables in |
| | object |
| 20050121 | Changed filename to lower case |
| 20050211 | Removed need for thread local storage |
| 20090209 | Added QueryMoveScript callback |
| 20091231 | Added HAVE_LIBJPEG (version 6c!) and HAVE_JASPER for |
| | external library support (beta for now) |
| | Changed char* to const char* and cast time_t as int for gcc4.2 |
| | warnings |
| 20100111 | Merged |
| 20100703 | Merged some bcb OpenJPG changes |
| 20100706 | Added support for J2K and Jasper |
| 20100721 | Merged |
| 20110118 | Derived ExtendedPDU_Service from CheckedPDU_Service |
| 20110118 | Added lua_State to ExtendedPDU_Service |
| 20110119 | Added *VariableVRs and ThreadNum to |
| | ExtendedPDU_Service |
| 20110122 | Added ExtendedPDU_Service destructor |

ODBCI.CPP (part of DGATE.EXE):

| 19990628: | experimental locking call |
|-----------|---|
| 19990628 | temp defined DB_DEBUG and introduced experimental statement options |
| 19990707: | Undefined DB_DEBUG and removed statement options |
| 19990827: | Added CreateIndex |
| 20000629 | Logging of trouble now starts with '***' */ |
| 20001105 | Run-time load ODBC routines for BC and WC |
| 20001103 | Added InitializeCriticalSection in 'Open' and |
| 20001120. | DeleteCriticalSection in 'Close' |
| 20010829: | Enabled DB DEBUG to show db errors in verbose mode |
| 20020412 | Use SQLExecDirectWithRetry to retry in case of any error |
| | (deadlock=1205). Added CreateUniqueIndex function, and |
| | GetLastError. Ignore error from unique index to make multi- |
| | user safe. |
| 20020413: | NOTE: A SINGLE DB MAY NOT BE USED BY MULTIPLE |
| 20020115. | THREADS. |
| 20020417: | Extended deadlock wait time to about 1 min for safety |
| 20021014: | Added built-in dbf support for stable ODBC less-operation |
| 20021011. | Note: requires fully de-normalized database; notes: in dbsql, |
| | first bind row not set; in vrtosql; debug query print with %s in |
| | search crashes |
| 20021016: | Added about 1 MB of in-memory hashed index in patient ID for |
| 20021010. | all tables; speed OK to 10.000 objects; pack db on server start |
| | (for speed it is wise to keep DBF files on local harddisk) |
| 20021017: | Made NeedPack a global for control from dgate; fix base_trunc; |
| 20021017. | fix in Updaterecords; fix first num field in AddRecord |
| 20021020: | Made querymodes an array, so that each query field can be key, |
| 20021020. | key% or %key%; Use querymode also when hashing the |
| | entries (part of db entry); Fix process_escape for " and \[and |
| | also use it before dbase_write |
| 20021028: | Set open retries shorter for normal readonly access |
| 20021020: | Match alternative patientID fieldname such that built-in DBF |
| 20021050. | queries work |
| 20021113: | Added <= comparison in dbase query (used for date |
| | comparison) |
| 20030113: | Do not use () in sort order when multiple columns specified |
| 20030128: | Added alternative field names for series |
| 20030321 | Also handle 'write lock' for M\$Access (NativeError 1205 for |
| | sql-server equals -1102 in M\$Access). Other dbf-drivers??? |
| 20030819 | Allow longer filenames |
| 20031104 | Added \\ to process_escape |
| 20030425 | Added DoubleBackSlashToDB control |
| 20030520 | Speedup by fix dbaseIII hashing, setting hashfield was wrong |
| 20030523 | Implemented in-memory index to speed dbase queries; added |
| | IndexDBF and PackDBF settings |
| 20040528 | Fix built-in DbaseIII for > 2 GB; index fixed at 10.000.000 |
| | records; Fix problem when spaces in patient ID in index |
| | generation |
| 20040528 | Added ExtractRecords (dbase III only); fix update/delete for |
| | record 0 |
| 20040530 | IndexDBF gives MB extra to allocate; skip dbf files starting |
| | with X; convert normal queries in SeriesInstanceUID or |
| | StudyInstanceUID to indexed ones |

| 20040601 | Added LongQueryDBF flag: report if query took longer than LongQueryDBF ms (default 1000); Min 20 MB index during regen; allow pack on command (NeedPack=TRUE; DB.Open) |
|----------|--|
| | Increase query buffer size to 16384 (often reread), pack buffer to 65536 |
| 20040605 | Optimize speed for huge files, extract max 100000 records; |
| | made lockstartint64; Do not lock for read in extract (is very |
| | slow for huge files); Record lock no longer on physical bytes |
| | but on rec#; attempt to speed memory index; NeedPack==3 -> force pack |
| 20040606 | Fix lock whole file; fix index patient ID database; fix in |
| 20040000 | dbcreate for test |
| 20040609 | Implemented fast in-memory locking and enabled for all shared |
| | files |
| 20040610 | on dbase_create set indexcount to 0; dbase_trunc truncs |
| | indexcount |
| 20040612 | Put index creation in a thread; server runs (but does not find non yet indexed records) during indexing; implemented indexdbf command NeedPack=4 |
| 20040614 | Added NeedPack=5: create non-threaded index (for archival |
| | options) |
| 20040615 | Added warning when index is full; keep indices when creating |
| | db |
| 20040930 | Added multiple value query; protect length of copy of where string |
| 20041003 | Reused very long SQLStatement string for wheres string |
| | For lengths see dbsql.cpp; tructated debug printfs |
| | set cols length to 4096; malloc tmp in query at 310000; |
| 20041013 | for length calculation see dbsql.cpp Used MAXQUERYLENGTH |
| 20041013 | Fixes in multiple query (query string truncated + mode mix |
| 2004102) | problem) |
| 20041101 | DB is read only while in-memory indexing of DbaseIII active |
| 20050102 | Small modifications to allow compile through total.cxx |
| 20050107 | Export NumIndexing to tell dgate when indexing is done |
| 20050116 | Adapted for use with LINUX (built-in dbase driver only) |
| | Notes: 1) delay poorly implemented; 2) no support for >2 GB |
| 20050118 | Detach pthreads to avoid leaks |
| 20050119 | Documented rare crash in Fill_Memory_Index |
| 20050124 | Added support for huge files under Linux (not suitable for ext2 |
| 20050205 | filesystem); Allow = without spaces in query |
| 20050205 | Added counters for db activity |
| 20050206 | Small fixes to counters; allow "&" instead of " and " for CGI use |
| 20050905 | Postgres code by Piotr Filipczuk checked by mvh, will not |
| 20030703 | affect other operations, but not tested yet (postgres will not |
| | compile on my linux system) |
| 20050907 | Merged change by Hans-Peter Hellemann: lseek64 not always |
| | defined, should be mapped by unistd.h |
| 20050909 | Put check for = in query below >=: date range matching failed |
| | (Thanks Paolo Marcheschi) |
| 20050911 | Removed postgres print statements |
| 2005112 | Fixed BindField for postgres - now returns actual and not |
| | reserved length |

| 20051217 Maximum locks in dbaseIII driver from 1000 to 100 to speed up qunlock (20% regen speed) 20051218 Respond to → = NOTHREAD: run server as single process, useful for debugging and profiling 20051219 Fixed slow leak of queryfields for built-in dbase driver 20051230 Put index of DicomWorkList on AccessionNumber 20060219 Start on native mysql driver 20060220 Some more work: get correct length in bindfield; todo: user and password 20060226 Runtime load MYSQL in WIN32 20060313 Use username and password for mysql 20060402 Start index threads with a short delay to give GUI priority to test startup 20060607 Changed escape char processing for sql values (not queries) to match dbsql.cpp change Fix for Borland C++ builder 20060628 Moved location of disabled query logging 20060630 Speeded dbaseIII AddRecord lots and linux string handling 20060701 Added and use mysql_fetch_lengths; protect query result 20060702 Tested native mysql driver: does not like fast open/close: clonedb crashed after 4000 or so (avoided now) 20061212 Found critical error in built-in dbase driver sql parser: Adding patient with ID containing certain character sequences will immediately overwrite the whole patient database. Queries with these sequences will return too many records (less dangerous). Issue not yet realy fixed but greatly reduced its likelyhood 20061213 Fixed issue by replacing spaces inside strings in sql statement with non-breaking spaces. Only match on keywords and field names which include spaces; replace with normal spaces in process_escape 20070123 clear NativeError, State and Msg on db.open (e.g. for dbf that does not use them but prints) 20070126 Added missing break in non breaking space field of process_escape: failed on multiple spaces in string 20070201 DebugLevel 4 prints all sql activity√ Fixed >2GB file support in linux: use O_LARGEFILE and lseek64() - sorry Hans-Peter Hellemann 20070206 Added CreateDatabase (created db and login) 20070207 Removed creation of login from CreateDtabase for mysql and |
|--|
| 20051218 Respond to -b = NOTHREAD: run server as single process, useful for debugging and profiling Pixed slow leak of queryfields for built-in dbase driver 20051230 Put index of DicomWorkList on AccessionNumber 20060219 Start on native mysql driver 20060220 Some more work: get correct length in bindfield; todo: user and password 20060226 Runtime load MYSQL in WIN32 20060313 Use username and password for mysql 20060402 Start index threads with a short delay to give GUI priority to test startup 20060607 Changed escape char processing for sql values (not queries) to match dbsql.cpp change 20060618 Fix for Borland C++ builder 20060628 Moved location of disabled query logging 20060701 Added and use mysql_fetch_lengths; protect query result 20060702 Tested native mysql driver: does not like fast open/close: clonedb crashed after 4000 or so (avoided now) 20061212 Found critical error in built-in dbase driver sql parser: Adding patient with ID containing certain character sequences will immediately overwrite the whole patient database. Queries with these sequences will return too many records (less dangerous). Issue not yet realy fixed but greatly reduced its likelyhood 20061213 Fixed issue by replacing spaces inside strings in sql statement with non-breaking spaces. Only match on keywords and field names which include spaces; replace with normal spaces in process_escape 20070123 clear NativeError, State and Msg on db.open (e.g. for dbf that does not use them but prints) 20070126 Added missing break in non breaking space field of process_escape: failed on multiple spaces in string 20070201 DebugLevel 4 prints all sql activity\ 20070203 Fixed >2GB file support in linux: use O_LARGEFILE and Iseek64() - sorry Hans-Peter Hellemann 20070206 |
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| ` |
| 20070207 Removed element of login from element and mysqr and |
| postgres |
| 20070210 Moved debug prints to SystemDebug; removed double log in |
| QueryDistinct for dbaseIII |
| 20070218 Added SqLite (win32 dll version): seems to run now; very slow |
| when sync, very fast async |
| 20070307 Made database type flag local, added Database(type) creator |
| |
| 20770308 Fixed DARWIN ifs, made DARWIN/MySQL auto start. |
| 20770308 Fixed DARWIN ifs, made DARWIN/MySQL auto start. (MySQL is included with DARWIN) |
| , and the second se |
| (MySQL is included with DARWIN) Merged; changed two nested ifs that had an else that would be wrong |
| (MySQL is included with DARWIN) 20070315 Merged; changed two nested ifs that had an else that would be wrong 20070406 Use reentrant rand_r and localtime_r when available |
| (MySQL is included with DARWIN) Merged; changed two nested ifs that had an else that would be wrong |

| 20070703 | Removed test version code; display mysql connection errors on OperatorConsole |
|----------------------|---|
| 20070705 | Added DT DBASEIIINOINDEX: disables indexing and |
| 20070703 | _ |
| | packing; #define USESQLITE_DLL to load DLL; otherwise |
| | use statically linked sqlite3.c; Extented max number of dbf files to 20 |
| 20070709 | |
| 20070709 | Fixed crash when mysql not started: format error in the error |
| 20070711 | print Some fives to compile with solite and on linear |
| 20070711 20070715 | Some fixes to compile with sqlite under linux |
| | Removed debug print statements for sqlite |
| 20071027 | Maybe fix postgres error handling: reset ntuples |
| 20071030 | More fixes to postgres error handling: missing returns in PrintLastError |
| 20071115 | |
| 20071115 20071118 | Fixed SQL database creation for SQL server 2005 |
| 20071118 | Adapted for 64 bits (use SQLLEN for BindField) Removed dangling WHERE and ORDER in SQL server |
| 20071124 | interface when passing "" instead of NULL |
| 20081116 | |
| 20081110 | Adapted for 64 bits linux (avoid use of "long", in dbase code |
| 20081117 | and when reading SQL_C_ULONG) |
| | Allow compile with both POSTGRES and USEMYSQL |
| 20081119 | added run-time loading of postgres for WIN32 |
| 20081120 | Added UseEscapeStringConstants for dbase (is needed only in |
| | one place because in other place the E in E'\\' is igored by the |
| 20081121 | current code) Implemented CreateDatabase for Postgres; also try load |
| 20081121 | 1 |
| 20091124 | libmysql64.dll (for easy 64 bit deployment) |
| 20081124 | Added DT_NULL (black hole) |
| 20081125 | Fix critical section in DT_NULL |
| 20081126 | Todo: all realloc of dbase index when full; don't use threads to fill |
| 20090202 | Fixed problem of database fail open in GUI after install: |
| 20090202 | XADICOMPatients was never closed, as connected was not set |
| | when there were no databases |
| 20090203 | Fix crash on SQLite error |
| 20090429 | Added libpq64.dll |
| 20090616 | Added OldUID as hashfield: indices UIDMods table; increased |
| 20070010 | default index to 10 MB |
| 20090620 | Include file stuff |
| 20091230 | Merged bcb change |
| 20091230 | Changed char* to const char* and added blank[]="" for gcc4.2 |
| 20071251 | warnings |
| 20100111 | Merged |
| 20100111 | Allow host:port syntax for hostname in MySQL and PostGres |
| 20100125 | GetPrivateProfileString -> MyGetPrivateProfileString |
| 20100309 | Cast k to unsigned int, commented out unused variables (gcc4.2 |
| 20100507 | Warnings) |
| 20100309 | Added retunn FALSE to the end of CreateDatabase |
| 20100309 | Added double parentheses (gcc4.2 Warnings) |
| 20100619 | Fix gcc4 warnings, improve speed and added #ifndefs and |
| _010017 | UNUSED ARGUMENT. |
| 20100703 | Merged; but fixed random seed change (initialize static) |
| 20100717 | Merged |
| 20100815 | Fixed linux compile for SqLite |
| 20100816 | removed (a) from #ifndef EnterCriticalSection(a) etc |

| 20101121 | use strncpy to avoid access errors in Sqlite where fields may |
|----------|---|
| | exceed defined length |
| 20101121 | Disallow SqLite with DoubleBackSlashToDB |
| 20101129 | Filter [x] like sequences in dbaseIII driver process_escape |
| 20110102 | retry connect to postgres once; more postgres error handling |
| 20110104 | Undone [x] change of 20101129 |
| 20110305 | Replaced Sleep(555) in linux code by delay(555) |
| 20110319 | Normalized line endings |
| 20110502 | Added db:Exec |
| 20111113 | Fixed leak in DT_NULL driver (SQLStatement not freed) |
| 20120107 | Accept 64 bits DLL's also as e.g., x64\libpq.dll |
| 20131029 | typo in lPassword |
| | |

ODBCI.HPP (part of **DGATE.EXE**)

| 19990827 | Added CreateIndex |
|----------|--|
| 20001128 | Added CRITICAL SECTION member of 'Database' |
| 20020415 | Added error info, GetNativeError, SQLExecDirectWithRetry |
| | and CreateUniqueIndex |
| 20021020 | Added built-in dbf support (for stable operation without |
| | ODBC) Note: requires de-normalized database |
| 20030120 | Ignore Micro\$oft complaint C4200 |
| 20030321 | Enlarged buffer for SqlErrorMessages (Database->Msg) |
| 20030819 | Allow longer filenames |
| 20040528 | Added ExtractRecords (dbase III only) |
| 20040530 | Added Internal Query (for converting normal to indexed |
| | queries) |
| 20040605 | Made lockstartint64 |
| 20040612 | Made lockstart in again - now pure record#; added TotalRec, |
| | MBExtra |
| 20041003 | Statement length set to 310 kb (see dbsql.cpp for explanation) |
| 20041013 | Malloc SQLStatement instead |
| 20050109 | Adapted for linux compile |
| 20050905 | Postgres code by Piotr Filipczuk checked by mvh, will not |
| | affect other operations |
| 20060219 | Start on native mysql driver |
| 20060220 | Include all required mysql defines here |
| 20060226 | Runtime load MYSQL in WIN32 |
| 20060628 | Use mysql.h proper (for datastructures) even when runtime |
| | loading (sorry for the hard include path) |
| 20060701 | Added mysql_fetch_lengths |
| 20070206 | Added CreateDatabase |
| 20070218 | Added SqLite |
| 20070307 | Made database type local, added Database(type) creator |
| 20070705 | Added DT_DBASEIIINOINDEX: disables indexing and |
| | packing; Extented max number of dbf files to 20 |
| 20071115 | Static mysql use <mysql.h></mysql.h> |
| 20071118 | Adapted for 64 bits (use SQLLEN for BindField) |
| 20080107 | Removed double declaration of SQLLEN |
| 20080821 | Fix for SUNWspro compiler |
| 20081116 | Adapted for 64 bits linux (avoid use of "long") |
| 20081117 | Allow compile with both POSTGRES and USEMYSQL |
| 20081119 | added run-time loading of postgres for WIN32 |
| 20081120 | Finished it |

| 20081124 | Added DT_NULL |
|----------|--|
| 20090114 | Increased MAXFIELDS to 100 for clone_xvi |
| 20091231 | Changed char* to const char* for gcc4.2 warnings |
| 20100111 | Merged |
| 20100619 | Added no-copy to the Database class. |
| 20100717 | Merged |
| 20110502 | Added db:Exec |

AMAP.CPP (part of DGATE.EXE):

| 19990827: | added (limited) wildcard mapping in GetACRNema: AE, por |
|-----------|--|
| | or IP may end on '*' |
| 20001105: | replaced m-alloc by new |
| 20011109: | Made AE mapping case insensitive |
| 20020524: | In function 'GetACRNema', first try case SENSITIVE then |
| | INSENSITIVE |
| 20030701: | Added compression column (with this code is this column is |
| | not optional!) |
| 20030703: | KNOWN BUG: number of columns may not be 3 (crashes) |
| 20030709: | Solved above problem; rewritten parsing of Acrnema.map |
| 20030709: | known bug: trailing spaces lead skip of next line |
| 20030711: | Fixed trailing spaces in acrnema.map |
| 20031118: | Fixed leak InitACRNemaAddressArray |
| | • |

XVGIFWR.CPP (part of DGATE.EXE):

| 20050129 | Adapted for use in the Conquest DICOM server (see //) |
|----------|--|
| 20050130 | Made it ansi C |
| 20050826 | Made it reentrant to avoid gif file corruption in server |
| 20051219 | Fixed leak |
| 20070902 | Made cpp |
| 20080905 | Removed malloc.h for DARWIN |
| 20090620 | Include file stuff |
| 20091231 | Changed char* to const char* for gcc4.2 warnings |
| 20100111 | Merged |
| 20100309 | Commented out unused variables (gcc4.2 Warnings) |
| 20100619 | Added UNUSED_ARGUMENT. |
| 20100717 | Merged |
| 20101004 | Taken lsp's code of avs_animatedgif into use |
| 20101116 | Warnings fixed |
| 20101120 | Merged |
| 20101128 | Fixed double fclose |

JPEG_ENCODER.CPP (inactive part of DGATE.EXE):

| 20090215 | Started on update history |
|----------|--|
| 20090412 | Added BGRto444(14): accepts RGB instead instead of BGR (!) |
| 20100224 | Fix warning redifine INT32 with HAVE_LIBJPEG |
| 20100309 | Fixed Operation on 'x' may be undefined warnings (gcc4.2) |
| 20100703 | Merged except typedef INT32 |
| 20100706 | Accepted INT32 change |
| 20100717 | Merged |

WINTYPES.HPP (part of DGATE.EXE, Linux only):

20050111 added SWORD and UWORD

NPIPE.CPP (inactive part of DGATE.EXE, Linux only):

| 20050111 | Blocked out sys/conf.h; compiles with linux but gives linker warning: fattach not implemented and will always fail |
|----------|--|
| 20051217 | Return (unsigned) 0xFFFFFFF instead of signed –1 |
| 20070308 | Change things for BSD and DARWIN. |
| 20070316 | Some more fixes |
| 20091229 | Completely disabled call to fattach, ioctl, and isastream as per |
| | http://www.image-systems.biz/forum/viewtopic.php? |
| | f=33&t=1666 |
| 20100111 | Some layout |
| 20100619 | Fix gcc4 warnings. |
| 20100717 | Merged |
| | |

NPIPE.HPP (part of DGATE.EXE, Linux only):

| 20070308 | Added changes for BSD and DARWIN |
|----------|---------------------------------------|
| 20100619 | Added no-copy to the NamedPipe class. |
| 20100717 | Merged |

GPPS.CPP (part of DGATE.EXE):

| 20040111 | Fixes: defaults now work, allow DOS type files, case |
|----------|--|
| | insensitive |
| 20070330 | mvh Change by Mark Pearson: also allow tabs instead of |
| | spaces around = |
| 20090620 | Include file stuff |
| 20091231 | Changed char* to const char* and added blank[]="" for gcc4.2 |
| | warnings |
| 20100111 | Merged |
| 20100124 | Fix: blank item (e.g., password =) returned default not empty |
| 20100124 | Added cache for ini items: accelerates server with cached disk |
| | data 7x!!!! |
| 20100124 | ini file is tested for newer version every second |
| 20100309 | Added double parentheses (gcc4.2 Warnings) |
| 20100703 | Merged |
| 20100619 | Added no-copy to the NamedPipe class. |
| 20100717 | Merged |
| 20110320 | Removal of trailing blanks in value also removed one character |
| | after blank |
| 20110331 | Added FlushPrivateProfileStringCache |
| 20110407 | Extended FlushPrivateProfileStringCache to reset timestamp |
| | Fixed that was reading beyond current section |
| | |

GPPS.HPP (part of DGATE.EXE):

| 20091231 | Changed char* to const char* for gcc4.2 warnings |
|----------|---|
| 20100111 | Merged |
| 20100124 | Renamed to MyGetPrivateProfileString used for windows and |
| | linux |
| 20110331 | Added FlushPrivateProfileStringCache |
| | |

TOTAL.CPP (part of dgate.exe for most builds)

| 20020822 | This file compiles to TOTAL.EXE = DGATE.EXE with, e.g., BC55 |
|----------|--|
| 20050102 | Added NOINTJPEG flag: jpeg8/12/16 sources cannot be compiled at once |
| 20050107 | Changed order of compile |
| 20050111 | Added npipe.cpp and gpps.cpp for LINUX |
| 20050118 | Documented how to compile under linux and with visual c++ |
| 20050121 | Changed filename to lower case |
| 20050130 | Added xvgifwr.c |
| 20070315 | bcb added DARWIN stuff |
| 20070330 | bcb added DARWIN compile example |
| 20080820 | Solaris compile example |
| 20080910 | fixed DARWIN compile example for build version of mysql |
| 20081016 | Fix link to xvgifwr.cpp; 64 bit example code |
| 20090209 | Added jpeg_encoder.cpp |
| 20090411 | Added second SUN example |
| 20100120 | removed DARWIN (PPC, 10.4, now old) compile example. |
| | JPEG lib is internal, so undef NOINTJPEG if used. |
| 20100123 | Include stddef here for windows to avoid jasper.h compile |
| | problem |
| 20100124 | Also use gpps for windows. |
| 20100224 | Added defines for OpenJPEG |
| 20100706 | Allow both libaries at once |
| 20100721 | Merged |
| 20100815 | bcb added two defines; Merged |
| | |

KILLER.CPP (main of KILLER.EXE, which is not part of this release of the Conquest DICOM server):

| 19980619: | Added some doc on command line options and modes |
|-----------|--|
| | Fixed -L option (moved db.close) |
| 19980620: | Made code suitable for external calling; copied some of it to |
| | device.cpp. Killer.exe is not needed anymore with NKI |
| | Dgate.exe except as sleeper task because the alert task has been |
| | integrated into Dgate.exe |
| 20030702: | Adapted because of compression externals required by |
| | device.cpp |
| 20030706: | Attach VRType to PDU's for implicit little endian support |
| 20050129: | Adapted dummy for DumpVR |
| 20071118: | Adapted for 64 bits (use SQLLEN for BindField) |

AAAC.CXX (part of DICOM core library):

| 19980327: | Removed evaluation of Count without initialization in |
|-----------|---|
| | ReadDynamic |
| 20001106: | Use memcpy instead of ByteCopy |
| 20030122: | Fixed initialization of AAssociateAC |
| 20050108: | Fixed for linux compile |
| 20080203: | Added experimental ConfigPadAEWithZeros |
| 20080313: | Removed some warnings |

20100619: Fix gcc4 warnings and improve speed

20100717: Merged

20111010: Fix reading of accepted presentation contexts: array was ot

cleared and eventually overflowed

AARQ.CXX (part of DICOM core library):

20001106: Use memcpy instead of ByteCopy

20001128: Removed two warnings

20030122: Fixed initialization of AassociateRQ

20060618: Added definition of min()

20080203: Added experimental ConfigPadAEWithZeros

20080313: Removed some warnings

20100619: Fix gcc4 warnings and improve speed.

20100717: Merged

AARQ.HPP (part of DICOM core library):

20001106: Use memcpy instead of ByteCopy

20091231: Changed char* to const char* for gcc4.2 warnings

20100111: Merged

20100619: Fix gcc4 warnings, improve speed and added

UNUSED ARGUMENT.

20100717: Merged; Q1 OK

20100728: Added PresentationContext(const PresentationContext&)

20100815: Merged

AARJ.CXX (part of DICOM core library):

20100619: Fix gcc4 warnings and improve speed.

20100717: Merged

ARRAY.TCC (part of DICOM core library):

| 20050125 | Added 'ReplaceAt()' to the 'Array' class |
|----------|--|
| 20100619 | Fix gcc4 warnings and improve speed. |

20130812 Removed non-thread safe caching of last value

Does not seem to affect speed, throughput remains at 320 MB/s receive with 3 senders and receivers

in same dgate on 8-core machine

ARRAY.THH (part of DICOM core library):

| 20050125 | Added 'ReplaceAt()' to the 'Array' class |
|----------|--|
| 20100617 | Fix gcc4 warnings, improve speed and added constructors. |
| 20100717 | Merged; QUES:6 ok; changed = operator; QUES:7? |
| 20100816 | Meged bcb cleanup |
| 20130812 | Removed non-thread safe caching of last value |

CCTYPES.H (part of **DICOM** core library):

| 20001107: | Fixed to | allow | compile | with | $\mathbf{R}\mathbf{C}$ |
|---------------------|----------|---------|----------|--------|------------------------|
| $\angle (MM) + (M)$ | TIACULU | , and w | COHIDING | W IIII | 1)(/ |

20010705: Fixed to allow compile with MSVC 6 (see note below)

20040111 Fix for GNUC

| 20040117 | Fix for linux |
|----------|---|
| 20070308 | Added for DARWIN apple endian defs |
| 20070902 | Changed INT32 and UINT32 from long to int for ms7/ms8 |
| | compile |
| 20100706 | Made INT32 match libjpeg if HAVE_LIBJPEG. |
| 20100717 | Merged; fixed for WIN32 64 bits |

ENDIAN.CPD (part of DICOM core library):

20001106: removed unneeded (and sometimes uncompilable)

XE_UINTX::XE_UINTX (int x)

ENDIAN.HPD (part of DICOM core library):

20001106: removed unneeded (and sometimes uncompilable)

XE_UINTX::XE_UINTX (int x)

ENDIAN.CXX (part of DICOM core library):

| 20070330 | Merged bcb stuff |
|----------|--|
| 20070726 | Removed some duplicates from endian.hpp |
| 20130508 | Removed unused XE UINTX and include "endian.cpd" |

ENDIAN.HPP (part of DICOM core library):

20090215 Started an update history

DICOM.HPP (part of **DICOM** core library):

| 20071102: | Define SetDicomErrorHandler etc |
|-----------|--|
| 20080203: | Added experimental ConfigPadAEWithZeros |
| 20090211: | Added DCM_ERROR_PARSE |
| 20090802: | Added DCM_ERROR_DEBUG |
| 20091231: | Changed char* to const char* for gcc4.2 warnings |
| 20100111: | Merged |
| 20110231: | DicomError returns FALSE when handler not installed - to |
| | allow some errors to pass |
| 20110605: | Added DCM_ERROR_ASSOCIATION |
| | |

RTC.CXX (part of DICOM core library):

| 19980330 | Added an RTC memberfunction for loading the dicom |
|----------|---|
| | library from memory (e.g. a resource). |
| 19980331 | Added function for writing binary RTCs (function was |
| | originally implemeted in 'makebrtc.cxx' |
| 19980414 | Added RTC::GetGroupElement memberfunction, to retrieve |
| | the Group and Element numbers using a library-keyword. |
| 20040930 | Also return TypeCode in RTC.GetGroupElement() |
| 20071128 | Do not remove existing TypeCode if new one is unknown |
| 20090620 | Always include stdlib.h |
| 20091028 | pack(4) forBinary_RTC_Header |
| 20091029 | More adjustments for 64-bits (reading/writing binary RTC) |
| 20100309 | Changed int to unsigned int, commented out unused variables |
| | (gcc4.2 Warnings) |

| 20100717 | Merged |
|----------|---|
| 20130503 | Make sure that padding bytes are set to zero |
| 20130508 | Use delete [] StringTable rather than delete StringTable as |
| | indicated by Klocwork |
| 20130619 | Added fclose(fp) before return, added checks to |
| | AttachBinaryRTC(), again as indicated by Klocwork |
| | |

RTC.HPP (part of DICOM core library):

| 19980331 | Added prototype for writing binary RTCs |
|----------|--|
| 20091029 | Adjustments for 64-bits |
| 20100619 | Added no-copy to the RTC class. |
| 20100717 | Merged |
| 20130429 | Made no-copy generic (not only for GNUC) |

| TRNSYN.CXX (part of DICOM core library): | | |
|--|---|--|
| 19980409: | Fixed possible transition between presence and absence of TypeCodes in 'Dynamic_ParseRawVRIntoDCM' | |
| 19990904: | Treat type UN same as OB,OW and SQ when reading Explicit files. | |
| 20001106: | Replaced == operator by strcmp | |
| 20010905: | Several fixes: UCDMC should NOW be able to read ExplicitBigEndian files | |
| 20011220: | Fixes in Sequence and Item delimiters | |
| 20030122 | Fixed small leak in Dynamic_ParseRawVRIntoDCM | |
| 20030205 | Support new datatype 'UT' (unlimited text). Thanx to William Peterson | |
| 20030424 | Changedprototype of ParseDCMIntoRawVR. Fixed huge bug in sending of ExplicitLittleEndian sequences | |
| 20030627 | Fix for MSC 4.2 | |
| 20030725 | Keep GroupLength for group 0x00 (Radworks 6.0 was choking in this) | |
| 20040406 | Make TypeCode 'UN' if not known, and conversion to Explicit is wanted | |
| 20050112 | Fixed huge bug in Explicit_ParseDCMIntoRawVR, causing data-loss. Thanx to Goran Peros. | |
| 20051217 | Use new VR::ReAlloc method to replace data in VR | |
| 20051218 | Use memcpy to enter UID (extra 0 will be available: end of string) | |
| 20051219 | Use ReAlloc instead of new BYTE[] to fill VR data | |
| 20051229 | Moved Push in ParseRawVRIntoDCM so that not done when VR exists | |
| 20070308 | Added big endian stuff | |
| 20071031 | Removed some commented out code | |
| 20071108 | In Dynamic_ParseDCMIntoRawVR(), let group 0x08 behave the same as all other groups greater than 0x02. | |
| 20071118 | NOTE: previous change is not in release 1.4.13 | |
| 20071128 | Add TypeCodes if needed using AttachedRTC->RunTimeClass | |
| 20080913 | Fix in bigendian input: interpret group 0 as littleendian | |
| 20090211 | Added many checks on corrupt dicom data during parsing; removed blocked out code | |
| 20090212 | Fixed a problem in the check code if some (but not all) group lenghts are missing | |

| 20090620 Added <stdlib.h> 20090824 Resume parsing after invalid element length if length was a too big</stdlib.h> | not |
|---|------|
| too big | 101 |
| <u> </u> | |
| 20100102 Merged bcb changes for bigendian | |
| bcb moved setting 0002,0010 to work for all transfers in | |
| ParseRawVRIntoDCM: fix for osiris; Added JASPER stuf | f; |
| const | |
| 20100118 Always allow jp2k | |
| 20100119 Put HAVE LIBJASPER back in (unfortunately that creates | s a |
| dependency between dicomlib and dgate) | |
| 20100119 Changed Dynamic_ParseRawVRIntoDCM and | |
| ParseImagePixelDataRawToDCM to read NovaRad files a | nd |
| remove the errors. | |
| 20100121 Merged but put into NOVARAD_FIX define; not bcb alsp | |
| prints which parser reports errors | |
| 20100125 Linux warnings. | |
| 20100224 Changed HAVE_LIBJASPER to HAVE_J2K for OpenJPE | EG |
| and fixed more warnings (-Wall) | |
| 20100309 Added double parentheses (gcc4.2 Warnings) | |
| 20100309 Changed int to UINT, commented out unused variables (go | c4.2 |
| Warnings) | |
| 20100419 Fixed Dynamic_ParseRawVRIntoDCM big endian | |
| 20100619 Made VRBuffer local lVRBuffer. | |
| 20100707 Merged | |
| 20100718 Looked at and rejected the date change: you can use | |
| importconverters for this job | |
| 20100722 iorgmode change breaks the reader for me! | |
| 20100724 Put back date change with DATE_FIX inclosing it. | |
| 20101001 Allow CurrentGroupLength==0 as warning | |
| 20101018 Fixed big endian in Dynamic_ParseRawVRIntoDCM. | |
| 20101020 Merged. | |
| 20101116 Added to/from big endian and used it to fixed big endian recieve. | |
| 20101120 Merged | |
| 20110231 allow some parsing errors when DicomError handler not | |
| installed | |
| 20105001 This is the rolled back dicom decoder to 1.4.16beta4 version | m· |
| with dummy FALSE passed to Implicit ParseRawVRIntoI | - |
| 20105001 It fixes a small leak that fragments memory | CIVI |
| 20110502 merged IgnoreDicomError change (20110231) | |
| 20111020 Enabled NOVARAD ODD FIX for rubo demo images; ac | lded |
| warning | aucu |
| 20120723 bcb fixed datefix (extra; after if) | |
| 20130514 Fixed Big Endian parse, fixed warnings with strnlen32u() | |
| 20130523 Merged Big Endian parse fix not strnlen32u() | |
| 20130619 Fixed problem in GetTransferSyntaxUID() indicated by | |
| Klocwork | |
| 20130711 Merged | |
| | |

DEIVR.CXX (part of **DICOM** core library):

| 19990318 | Added 'DICOMObject::DeleteVR' |
|----------|--------------------------------------|
| 20001106 | Used delete [] operator for vr->Data |

| 20010426 | Fixed small leaks in 'DICOMObject::DeleteVR' |
|------------|--|
| 20010730 | Added 'DICOMObject::ReplaceVR' |
| 20010802 | Added 'VR::GetSpecialValueCodeOfVR' |
| 20011121 | Added VR SPECIAL RGB TO MONO. Used by a |
| | conversion-tool to change ultrasound Kretz RGB images to |
| | monochrome that VariSeed (brachytherapy) understands. |
| 20011121 | Added VR_SPECIAL_RGB_TO_MONO_PLUS. Same as |
| | above, but tries to preserve colored drawings. |
| 20051217 | Added 'VR::ReAlloc' |
| 20051217 | Use malloc/free instead of new char[] and delete [] |
| 20051229 | Removed unnecessary reset() in DeleteVR |
| 20071031 | Temp printf memory error messages |
| 20071102 | Send allocation errors to DicomError |
| 20080313 | Removed some warnings |
| 20080910 | Added VR::VR(UINT16 g, UINT16 e, UINT32 l, |
| | LE_UINT16*d) &VR::VR(UINT16 g, UINT16 e, UINT32 l, |
| | LE_UINT16 *d, BOOL mFlag) for big endian. |
| 20081016 | Fix for WC: new of 0 gives NULL (check Length in error |
| | message) |
| 20090620 | Added <stdlib.h></stdlib.h> |
| 20091230 | Merged bcb bigendian change |
| 20100110 | And const change |
| 20100309 | Added double parentheses (gcc4.2 Warnings) |
| 20100619 | Fix gcc4 warnings and improve speed and added questions. |
| 20100717 | Merged except keep default ReleaseMemory to TRUE and |
| | check data when adjusitn length |
| 20100728 | Removed unused AutoMakeDO, added Get's to VR and |
| | DICOMObject. Added ChangeVR's. Fixed LastVR & |
| 20100015 | LastVRG? |
| 20100815 | Merged; fix VR constructors for failed malloc; added max |
| | parameter to GetCstring function; Moved defaults from |
| 20100026 | implementation to header files |
| 20100826 | beb noved another default, size_t |
| 20100901 | bcb changed alloc of US to 2 |
| 20110231 | DicomError returns FALSE when handler not installed - to |
| | allow some errors to pass |
| DEIVD HDD | (nart of DICOM core library): |
| LIBLYK HPP | THAT THE THE THE CHIP HUCKEY! |

DEIVR.HPP (part of DICOM core library):

| 19990318 | Added 'DICOMObject::DeleteVR' |
|----------|---|
| 20010730 | Added 'DICOMObject::ReplaceVR' |
| 20010802 | Added 'VR::GetSpecialValueCodeOfVR' |
| 20051217 | Added 'VR::ReAlloc' |
| 20080910 | Added VR::VR(UINT16 g, UINT16 e, UINT32 l, LE_UINT16 |
| | *d) & VR::VR(UINT16 g, UINT16 e, UINT32 l, LE_UINT16 |
| | *d, BOOL mFlag) for big endian. |
| 20100619 | Fix gcc4 warnings and improve speed, and prevented coping |
| | of clases with pointers. |
| 20100717 | Merged |
| 20100728 | Removed unused AutoMakeDO, added Get's to VR and |
| | DICOMObject. Added ChangeVR's. |
| 20100815 | Merged; added max to GetCstring; Moved defaults from |
| | implementation to header files |
| 20100823 | bcb moved default parameter here |
| | |

SOCKET.CXX (part of DICOM core library):

| 20010426 | Added 'setsockopt' in 'Listen' and 'Open' |
|----------|--|
| | Call 'shutdown' before closing a socket |
| 20010720 | Changed 'print' to 'fprint(stderr,)' |
| 20050116 | Adapted for LINUX compile |
| 20050119 | Blocked out SOCKET END ERROR message |
| 20070406 | Use reentrant gethostbyname_r when available |
| 20070415 | Small fix there for windows |
| 20090620 | Added unistd.h for UNIX |
| 20090824 | Debug output of adress connecting to socket |
| 20091231 | Changed char* to const char* for gcc4.2 warnings |
| 20100111 | Merged |
| 20100122 | Gethostbyname: fixed bug reported by Arash 2station would |
| | not be found |
| 20100122 | Added Poll() method: returns TRUE if data available |
| 20100125 | Linux warning |
| 20100309 | Commented out or inited to fix unused variable warning |
| | (gcc4.2 Warnings) |
| 20100619 | Fix gcc4 warnings, improve speed and made TimeOut local. |
| 20100707 | Merged |
| 20121214 | Set 1 _onoff to 0 (3x) to fix connection with some dicom |
| | systems |
| 20130429 | Removed unused FarProc |
| | |

SOCKET.HPP (part of DICOM core library):

| 20091231 | Changed char* to const char* for gcc4.2 warnings |
|----------|--|
| 20100111 | Merged |
| 20100122 | Added Poll function |
| 20100619 | Added no-copy to the Socket class. |
| 20100707 | Merged |
| 20121214 | Mode sa public |
| | |

SAFEMEM.CXX (inactive part of DICOM core library):

20010720 Changed 'printf' to 'fprintf(stderr,...)'

DIMSEN.CXX (part of **DICOM** core library):

| 19990415 | Removed static on TranslateUIDToVR |
|----------|--|
| 20020822 | Use instead of DIMSEN.CPP |
| 20071118 | Removed faulty overloaded 'NGetRQ::Write' |
| 20080905 | Removed (void*) cast for deivr change |
| 20100309 | Added double parentheses (gcc4.2 Warnings) |
| 20100619 | Added UNUSED(x) |
| 20100717 | Merged |

DIMSEN.HPP (part of **DICOM** core library)

| 20020822 | Cleanup layout |
|------------|--|
| 20100619 | Added virtual destructors |
| 20100717 | Merged |
| DIMSEC CY | VV (nort of DICOM core library). |
| DIVISEC.CA | XX (part of DICOM core library): |
| 20030219 | Removed MessageID and Priority from the 'write' functions of CStoreRSP, CFindRSP and CMoveRSP |
| 20030606 | Added parameter 'QueryRetrieveLevel' to CFindRSP::Write |
| 20030811 | Do not send DDO in CMoveRSP::Write (DicomEye and OFFIS do not like that). |
| 20050129 | Added Write with extra vr to CEchoRSP |
| 20051222 | Do not add query level if already exists |
| 20070308 | Made changes for big endian |
| 20070314 | Allow send of 0000,1030 (MoveOriginatorAE) and 0000,1031 (MoveOriginatorMessageID) in CStoreRQ |
| 20070330 | Merged bcb's Darwin and Endian stuff |
| 20080203 | Added experimental ConfigPadAEWithZeros |
| 20080910 | Removed big endian changes from here and moved to deivr |
| 20100309 | Added double parentheses (gcc4.2 Warnings) |
| 20100619 | Added UNUSED_ARGUMENT. |
| 20100717 | Merged |
| 20120624 | Delete transfer syntax in data object of outgoing images |
| 20120628 | Undo above change that only affects 'as': would probably break |
| | 'as' transfer of jpeg |
| DIMSEC.HI | PP (part of DICOM core library): |
| 20030606 | Added parameter 'QueryRetrieveLevel' to CFindRSP::Write |
| 20050129 | Added Write with extra vr to CEchoRSP |
| 20070314 | Allow send of 0000,1030 (MoveOriginatorAE) and 0000,1031 |
| | (MoveOriginatorMessageID) in CStoreRQ |
| 20100619 | Added virtual destructors (gcc4.0 Warnings) |
| 20100717 | Merged |
| UNIQ.CXX | (part of DICOM core library) |
| 19990511 | Fix: All routines wrongly used '%' instead of '&' |
| MAKEBRTO | C.CXX (part of DICOM core library) |
| 19990415 | Note: requires changelog |
| PDATA.CXX | X (part of DICOM core library): |

Difficulty (part of Die officer normly)

| 20100619 | Fix gcc4 warnings, improve speed and made locals. |
|----------|--|
| 20100717 | Merged (note: locals means changes parameter names) |
| 20130807 | Detect invalid Length returned to fix hanging thread issue |
| | Fixed >0 check on UINT32 |

PDU.CXX (part of DICOM core library):

| 19980322 | Blocked one remaining printf statement "comparing" |
|----------|---|
| 19990202 | Added PDU memberfunction 'IsAbstractSyntaxAccepted' |

| 19990415 | Merged both versions |
|----------|---|
| 20000322 | Fix in search for PresentationContext when identical |
| | AbstractSyntaxes occur (e.g. GECT-scanner). Do not break out |
| | of the inner loop in PDU Service::InterogateAAssociateAC. |
| 20000322 | Fix of PresentationContextID in PDV: in routines |
| | PDU Service::Write(DICOMObject*, UID*), set |
| | PresentationContextID to TempByte, not to TempByte1. |
| 20000911 | Removed two warnings |
| 20020316 | Added GetLocalAddress and GetRemoteAddress |
| 20030306 | Fix: Huge bug in 'InterogateAAssociateRQ' |
| 20030424 | Blocked out obsolete PDU.Write(&DDO) |
| | Some work on offering other TransferSyntaxes than |
| | ImplicitLittleEndian when running in SCU mode |
| | (Note: when running in SCP mode, 'dgatesop.lst' is used) |
| | Fix: CommandObjects are always ImplicitLittleEndian |
| 20030627 | Fix for MSC4.2; re-enabled obsolete write calls for test.cxx |
| 20030710 | Adjusted test.cxx, and disabled obsolete calls again |
| 20080816 | ValidPresContexts is now a global: how many incoming |
| | connection can handle |
| 20090802 | Added DCM ERROR DEBUG statements to debug failed |
| | connect |
| 20100303 | Commented out unused variables (gcc4.2 Warnings) |
| 20100619 | Fix gcc4 warnings, improve speed. |
| 20100717 | Merged |
| 20100726 | bcb documented the mess in function AddAbstractSyntaxAlias |
| 20100728 | May have fixed AddAbstractSyntaxAlias, but I have no way to |
| | test. |
| 20100815 | Merged |
| 20100914 | Cleaned up AddAbstractSyntaxAlias problems (double release) |
| 20100918 | Merged |
| 20110604 | Count and show #candidates for "No valid presentation |
| | contexts found" |
| 20110605 | Added more DCM_ERROR_ASSOCIATION info that will |
| | show as proper server errors |
| 20130619 | Return NULL from DetachRTC() rather than pointer to deleted |
| | object20120820 Fixed a case where k-pacs sent a leading |
| | empty Transfer Syntax Name. |
| 20130807 | Testing result of all :: Read operations fixes hanging thread |
| | problem if you ctrl-c a c-store script |
| 20131016 | Merged |
| 20131106 | Removed return FALSE on Failed read in Multiplex(int |
| | Socketfd) fixes multiplex connection terminated on some |
| | clients. |
| | |

PDU.HPP (part of DICOM core library):

| 19990202 | Added PDU memberfunction 'IsAbstractSyntaxAccepted' |
|----------|---|
| 20020316 | Added GetLocalAddress and GetRemoteAddress |
| 20030424 | Changed prototype of ParseDCMIntoRawVR |
| 20030627 | Fix for MSC4.2 |
| 20030905 | Removed spurious; |
| 20080816 | ValidPresContexts is now public: how many incoming |
| | connection can handle |

| 20080819 | CanYouHandleTransferSyntax is now public; use BOOL not |
|---|---|
| | bool |
| 20091231 | Changed char* to const char* for gcc4.2 warnings |
| 20100111 | Merged |
| 20100619 | Fix gcc4 warnings and improve speed, |
| | and prevented copying of the PDU Service class with pointers. |
| 20100723 | Merged |
| 20101120 | bcb added parameter |
| 20110320 | Rollback of dicom decoder (parameter) to 1.4.16beta4 version |
| 20110326 | Put it back again |
| 20130619 | Made no-copy generic (not only forGNUC) |
| | |
| FILEPDU.CPP (part of DICOM core library): | |

| 20000420 | Fix in MakeChapter10: type of AffectedSOPClassUID and |
|----------|---|
| | RequestedSOPClassUID |
| 20030205 | Fixed FileMetaInformationVersion for big-endian machines |
| 20030424 | Put the correct TransferSyntaxUID in chapter10 files |
| 20041108 | Fix strdup memory access problem (found using \$c drop file |
| | test mode) |
| 20051229 | Fixed LEAK of 68 bytes when 0002,0010 not defined |
| 20060618 | Added definition of SH_DENYNO |
| 20090211 | Check result of Dynamic_ParseRawVRIntoDCM |
| 20091231 | Changed char* to const char* for gcc4.2 warnings |
| 20100111 | Merged |
| 20100309 | Added double parentheses (gcc4.2 Warnings) |
| 20100309 | Cast multichar as UINT16, commented out unused variables |
| | (gcc4.2 Warnings) |
| 20100706 | Fixed TransferSyntax in |
| | SaveDICOMDataObject(ACRNEMA_VR_DUMP) for |
| | testcompress. |
| 20100726 | Merged |
| 20100823 | Merged small comment fix |
| 20130508 | Fixed problem in SaveDicomDataObject() indicated by |
| | Klocwork |

BUFFER.CXX (part of **DICOM** core library):

| 20001106: | Use memcpy instead of ByteCopy |
|-----------|--|
| 20071031: | Temp printf allocation errors |
| 20071102: | Send allocation errors to DicomError |
| 20081016: | Default buffer size from 1024 to 10240 |
| 20100619: | Fix gcc4 warnings and improve speed. |
| 20100717: | Merged |
| 20130416: | Set DEFAULT_BREAK_SIZE for UNIX to 8192 to fix not |
| | understood ubuntu12.04 problem with zeros tranmitted after 1st |
| | 64k |

BUFFER.THH (part of DICOM core library):

| 20100309 | Changed BufferSize, InSize and OutSize from INT to UINT |
|----------|---|
| 20100621 | Added no-copy to the BufferSpace classes. |
| 20100707 | Merged |

VERSION.H (part of DICOM core library):

| 200107017 | Changed ImplementationClassUID to a valid UID: the Agfa dicom validation tool protested against the original 'UID'. Changed ImplementationVersion from "0.1B/WIN32" to "1.01/WIN32" |
|-----------|---|
| 20020416 | Changed IMPLEMENTATION_VERSION_STRING to 1.3.11/WIN32 |
| 20021018 | Changed IMPLEMENTATION_VERSION_STRING to 1.4.0/WIN32 |
| 20020208 | changed IMPLEMENTATION_VERSION_STRING to 1.4.1/WIN32 |
| 20030424 | changed IMPLEMENTATION_VERSION_STRING to 2.0.1/WIN32 |
| 20030709 | changed IMPLEMENTATION_VERSION_STRING to 1.4.2/WIN32 |
| 20030815 | changed IMPLEMENTATION_VERSION_STRING to 1.4.3/WIN32 |
| 20030402 | changed IMPLEMENTATION_VERSION_STRING to 1.4.4/WIN32 |
| 20040530 | changed IMPLEMENTATION_VERSION_STRING to 1.4.5/WIN32 |
| 20040713 | changed IMPLEMENTATION_VERSION_STRING to 1.4.6/WIN32 |
| 20041101 | changed IMPLEMENTATION_VERSION_STRING to 1.4.7/WIN32 |
| 20050901 | changed IMPLEMENTATION_VERSION_STRING to 1.4.9/WIN32 |
| 20060103 | changed IMPLEMENTATION_VERSION_STRING to 1.4.10/WIN32 |
| 20060311 | changed IMPLEMENTATION_VERSION_STRING to |
| 20060708 | changed IMPLEMENTATION_VERSION_STRING to 1.4.12/WIN32 |
| 20070307 | changed IMPLEMENTATION_VERSION_STRING to 1.4.13/WIN32 |
| 20080831 | changed IMPLEMENTATION_VERSION_STRING to 1.4.14/WIN32 |
| 20100713 | changed IMPLEMENTATION_VERSION_STRING to 1.4.16/WIN32; added osx |

FLPDU.CXX (part of DICOM core library):

| 20050130 | Allocate 1 item longer lists to allow configuration from GUI |
|----------|--|
| 20050213 | Fix to allow windows created file as input under linux |
| 20060618 | Added definition of SH_DENYNO |
| 20090802 | Added DCM ERROR DEBUG statement to debug failed |
| | connect |
| 20100309 | Commented out unused variable (gcc4.2 Warnings) |
| 20100619 | Fix gcc4 warnings and improve speed |
| 20100717 | Merged |
| 20110118 | Added unchecked CheckedPDU_Service () using NULL default |

FLPDU.HPP (part of DICOM core library):

| 20050129 | Made tables public for config |
|---|--|
| 20080819 | Made CanYouHandleTransferSyntax public |
| 20100619 | Added no-copy to the CheckedPDU_Service class. |
| 20100713 | Merged |
| 20110118 | Added unchecked CheckedPDU_Service () using NULL default |
| VERIFY.C | XX (part of DICOM core library): |
| 20050129 | Added ReadRequest and WriteResponse, allows extra response vr |
| VERIFY.H | PP (part of DICOM core library): |
| 20050129 | Added ReadRequest and WriteResponse |
| QRSOP.CX | XX (part of DICOM core library): |
| 20020429 | Fixed reporting of number of complete slices (now starts with 1); return cancel status if C STORE failed |
| 20030606 | Added parameter 'QueryRetrieveLevel' to CFindRSP::Write |
| 20050401 | Added ModalityWorkListQuery |
| 20051222 | Added pADDO to Query::Write method - answer appended to |
| | pADDO if set |
| 20080820 | Solaris fix (do not use variable name SS) |
| 20090205 | Added QueryMoveScript callbacks |
| 20100122 | Added support for C-CANCEL: poll the socket for any data and cancel if so |
| 20100309 | Added double parentheses (gcc4.2 Warnings) |
| 20100619 | Made Port local (lPort). |
| 20100707 | Merged |
| 20100816 | Added QueryResultScript |
| QRSOP.HPP (part of DICOM core library): | |
| 20030606 | Added member-variable 'QueryRetrieveLevel' to StandardQuery |
| 20050401 | Added ModalityWorkListQuery |
| 20051222 | Added pADDO to Query::Write method - answer appended to |
| | pADDO if set |
| 20090205 | Added QueryMoveScript |
| 20100816 | Added QueryResultScript |
| STORAGE | .CXX (part of DICOM core library): |
| 20020429 | check status of C-STORE RSP and return FALSE if failed |
| 20030922 | Added PDU_Service to CheckObject call |
| 20070307 | Added more debug error messages to retrieve |
| 20070314 | Allow send of 0000,1030 (MoveOriginatorAE) and 0000,1031 (MoveOriginatorMessageID) in StandardStorage: Write |
| 20070315 | Blocked out printf statements |
| 20100300 | Commented out unused variable (good 2 Warnings) |

Commented out unused variable (gcc4.2 Warnings) Added #ifndefs (gcc4.0 Warnings) and UNUSED_ARGUMENT

20100309 20100619

STORAGE.HPP (part of DICOM core library):

| 20030922 | Added PDU_Service to CheckObject call |
|----------|--|
| 20050108 | Fixed for linux compile |
| 20070314 | Allow send of 0000,1030 (MoveOriginatorAE) and 0000,1031 |
| | (MoveOriginatorMessageID) in StandardStorage : write |

PRINTSOP.CXX (part of DICOM core library):

| 20020814 | Added some comments and block-out mvh's debug code |
|----------|--|
| 20020816 | Fix in 'AbstractPrintManagementMeta::Write' |
| 20130429 | Removed unused variables |

CQSERVER.CPP (inactive part of conquest interface DLL):

| 1998xxxx | Creation. This file contains DicomServer code. A 'DicomServer' is an application that receives images, and is called a server because it 'provides' disk-space!? All code is reached by the routine 'ReceiveThread' at the end of this file. The ReceiveThread is launched by the exported function 'DcmMoveHere' in CqDicom.cxx. Communication with the mainthread is done by using global variables (sorry). |
|----------|--|
| 19990318 | Added support for MultiFrame modalities |
| 19990407 | Swapped priority of VRs 0020-0050 and 0020-1041; now the slicelocation is preferably deduced from 0020-1041. |
| 19990915 | FillSliceInfo now also indicates whether pixeldata are 'unsigned'. |
| 19991028 | Fix (in cases that went wrong anyhow): changed 'free' to 'DllFree'. |
| 19991029 | Added 'Signed compute' to convert unsigned short pixeldata |
| 19991122 | nki private decompress now supports Mode=2 |
| 20000131 | Fix: Replaced an instance of free by DllFree |
| 20000321 | FillSliceInfo now also retrieves 'BitsStored' |
| 20000405 | Added CheckRangeOfCT, to Calibrated CT-values to |
| | Hounsfield $+$ 1024, and to cut the values below 0. |
| 20000418 | Fix: crash on (INVALID !!) Siemens demo-data on RSNA |
| | 1994(CR images of RXDpat1-1994). PixelRepresentation tag was empty! |
| 20000530 | Use different pixelspacing tag for RTIMAGE |
| 20010123 | Moved code to GetSliceCoord; added static keywords |
| 20010410 | Improved communication between MainThread and ServerThread |
| 20010411 | Do not 'sleep' the ServerThread, but let it terminate |
| 20010426 | Again improved communication between MainThread and |
| | ServerThread |
| 20010508 | Replaced nki private decompress by a faster version |
| 20010717 | Added 'CheckRTDoseScaling' |
| 20010720 | Made Dummy::printf do nothing |
| 20010905 | Added 'CheckModalityLUT' |
| 20020227 | Support US pixelspacing (hiding in |
| | SequenceOfUltrasoundRegions) |
| 20020425 | Added exported funtion 'ComputeCRC' |

| 20020609 | Pasted extended decompressor from NKIQRSOP.CXX |
|----------|--|
| 20020613 | Moved MkTypedDicomObject to here |
| 20020620 | Guess SliceLocation in multi-frame images. |
| 20021028 | Support multiframe dose-grid in 'CheckRTDoseScaling', and |
| | slice-positions in 'GridFrameOffsetVector' |
| | NOTE: Varian multiplies and Helax divides by the |
| | DoseGridScalingFactor !!! |
| 20021113 | Guess SliceLocation in multi-frame images (SliceThickness). |
| | 3 \ |
| 20021213 | Adjusted field-coordinates of RTIMAGE |
| 20030122 | Support various Ultrasound pixelspacings |
| 20030127 | FillSliceInfo now also retrieves 'PhotometricInterpretation' |
| 20030128 | Support for 3D TimeSequences, resulting in 4D 4-space output |
| | scans |
| 20030213 | Fixed bug in change above |
| 20030624 | Workaround for Varian Vision 7.1 multiframe dosegrids |
| | Support for integer dosegrids and very small DoseGridScaling |
| 20030904 | Improved workaround for Helax DoseGridScaling |
| 20041119 | Added support for 4D object in slices |
| 20051219 | Use vr->ReAlloc |
| 20060515 | Also apply RescaleSlope and NEXT_VOXEL_DOUBLE to |
| | modality PT |
| 20060704 | Don't apply yet |
| 20060913 | Work on Philips MR: get PixelSpacing and PatientPosition |
| 20000713 | from deep inside sequences. Replaced GetFloatsFromKey call |
| | by GetFloatsFromVR calls |
| 20070404 | Heavily optimized InsertSlice: first transpose then insert biggest |
| 20070404 | gain (10 s) Uncompress during read gains 2 s |
| 20070506 | |
| 20070506 | Added optional prealloc data pointer to CreateOutputField |
| 20070522 | If LargeScan (>256 MB) decompress later to save memory |
| 20070522 | In CheckRTDoseScaling() take PLATO negative dose into |
| 20050504 | account |
| 20070704 | Fixed InsertSlice(): non-square slices went totally wrong |
| 20070730 | Dirty fix for CMS RTDOSE |
| 20071127 | Fixed bug in AddToOutputField (affects multiframe |
| | slicepositions) |
| 20080313 | Removed some warnings |
| 20080410 | Fix: In CheckRangeOfCT(), unsigned CT pixels were ill- |
| | treated. |
| 20080818 | Added support for philips 3D US (200d, 3303) |
| 20081014 | Fixed dose reading: broken by above change |
| 20090131 | Exported tranpose routines for CqCreateDcm |
| 20090602 | Added sensible Time-coordinate (AcquisitionTime) for 4D |
| | slice-based images. Works for our PET and MR scanner |
| 20110525 | In CreateOutputField(), check whether the PreAlloc size is big |
| | enough |
| 20110818 | Do not call progress callback in ServerChild (call it in the main |
| 20110010 | thread instead) |
| 20110927 | Finish receive-thread (ServerChild) when all slices have been |
| 20110721 | received |
| 20120212 | |
| 20120312 | In AddToOutputField(), ignore fSlicePosition for Siemens |
| 20120720 | multiframe RTDOSE |
| 20120629 | Removed MkTypedDicomObject(). Library is now always |
| 20120012 | attached in ServerChild() |
| 20120913 | More work on Spectroscopy |
| | |

| 20121009 | Use EchoTime for coords of 4th dimension in MR BOLD and |
|----------|--|
| | R2* images |
| 20130211 | Added CheckPETScaling |
| 20130214 | Known bug: SC series with different image sizes crash |
| | AddToOutputField |
| 20130424 | Removed unused functions AddStudyInstanceUID(), |
| | AddSeriesInstanceUID(),FixImage(), SaveToDisk(), |
| | <pre>get_nki_private_compress_mode(), no need to check input</pre> |
| | CRC in nki_private_decompress() |
| 20130425 | Merged |
| 20130522 | Added GetSliceCoord to find sldir |
| 20130711 | Merged |
| 20130812 | Updated B1 Map cehck for Philips Scanners because Philips |
| | uses different scale slope and intercept for each slice. Pixel |
| | values need to scaled accordingly. |
| | |

CQDICOM.CXX (part of conquest interface DLL):

| 19980330 | Creation |
|----------|---|
| 19980331 | Added exported DcmMkBinaryLib |
| 19980414 | Restricted the HeaderDump to max 4096 data, and the number |
| | of bytes on one line to 256. |
| 19980416 | Added sequence support in HeaderDump |
| 19980420 | Fixed last written line in multiple line sequence dump. Added |
| | functions DcmFind, DcmMove and DcmMoveHere |
| 19980526 | Added DcmCreateBitmap |
| 19980610 | Changed BGR to RGB in DcmCreateBitmap. Added |
| | DcmMoveHeaderHere |
| 19980629 | Fix: DimX and DimY were reversed. Improved efficiency |
| | when loading one slice. |
| 19980630 | Fix: last change caused crashes |
| 19980707 | Removed some checks to allow non-standard Philips images. |
| | Added DcmSetProgressHook |
| 19980708 | Added DcmReplaceInHeader, which can be used for |
| | anonymization of dicom images. |
| 19980709 | Added C-CANCEL command object when a ProgressHook |
| | stops or aborts a DcmMove operation. Added support for |
| | NkiPrivateCompressed images in DcmMoveHere. |
| 19980826 | Added #pragma pack(1) in Field.h |
| 19981105 | Added DcmReadHeader |
| 19981127 | Added DcmGetLastXfms |
| 19990108 | Updated the dictionary for DICOM-RT support |
| 19990114 | Slices are sorted on coord. When duplicate coords exist, the last |
| | received slice eliminate previous ones. Included changed SOP- |
| | list by MvH |
| 19990318 | Added three xxxRetrieveNKI PresentationContextSOPs in the |
| | function DcmMoveHere |
| 19990407 | Swapped priority of VRs 0020-0050 and 0020-1041; now the |
| | slicelocation is preferably deduced from 0020-1041. |
| 19990511 | Added DcmSetLocal(char* pszLocalAE, char* pszLocalPort) |
| 19990628 | Fix: DcmCreateBitmap did not like MultiFrame dicom files |
| 19990826 | Added DcmSetFreeHook and DcmMoveFilesHere |

| 19990906 | Added DcmSetExtraParams to support (amongst others in the future) transmission of downsized Dicom images between NKI |
|----------|--|
| | stations. |
| 19990913 | Private VRs of unknown type, will possibly be shown in the |
| 10000015 | headerdump as character strings. |
| 19990915 | Fix in ParseLine of headerdump. Added support for unsigned |
| 10001010 | pixeldata in DcmCreateBitmap. |
| 19991019 | Allow multiple slices with the same or without a coordinate, if this is the case for ALL slices (e.g. multiple scout-views in one series) |
| 19991022 | Changed the root of NKI-made UIDs to the official one |
| | supplied by Medical Connections(UK): |
| | 1.2.826.0.1.3680043.2.135.1066.xxxxxxxxxx |
| 19991028 | Converted unsigned short pixels to signed int pixels |
| 19991122 | Added DcmStoreFiles |
| 20000126 | Fix in WorldXfm (bug introduced on 19991019) |
| 20000128 | Fake slice-coords when a '3D volume' consists of e.g. multiple scout-views (Siemens MR produces such series). Prevents viewer-crash when loading a second volume into it. |
| 20000321 | Convert unsigned short to integer ONLY if all 16 bits of the pixeldata are used. Better contrast-stretch in DcmCreateBitmap |
| 20000327 | Added C-ECHO command |
| 20000405 | Calibrated CT-values to Hounsfield + 1024. Cut-off below 0. |
| 20000707 | Added DcmSetCacheAddress |
| 20000829 | Added an ErrorMessage |
| 20001128 | Replaced 'Oh shit!' errormessage by 'Cannot find related scan'. |
| 20010123 | Added static keywords. |
| | Moved code to GetSliceCoord; this routine checks besides tags (0x0020,0x1041) and (0x0020,0x0050) also (0x0020, 0x0032). This last tag (ImagePositionPatient) had to be used for Philips |
| | MR scanners. |
| 20010302 | Fix: improved temporary filename |
| 20010410 | Improved communication between MainThread and |
| | ServerThread. Again improved temporary filename |
| 20010411 | Kill ServerThread only if it is not responding |
| 20010413 | Fix: allways close the threadhandle |
| 20010426 | Again improved communication between MainThread and ServerThread |
| 20010508 | Adjusted call of nki_private_decompress to a faster version |
| 20010619 | Fix in GetFloatsFromKey (crashed on PatID 1234567890 |
| 20010717 | NuclearMedicin testpatterns) |
| 20010717 | Adjusted DcmMoveHere for RTDose post-processing |
| 20010802 | DcmReplaceInHeader now also supports replacements inside |
| 20010000 | sequences; Added export DcmVersion |
| 20010808 | Fix: SetStringVR appended a NULL byte to strings with |
| | uneven characters. This is correct for UIDs, all other strings |
| 20010024 | should have a space appended. |
| 20010824 | Updated 'soplist.txt' resource to DICOM 1999 final text. |
| 20010905 | Fix: Headerdump was incomplete when a VR consists of more |
| 20011121 | than one short or int; Start implementation of ModalityLUT |
| 20011121 | Replaced 'SetStringVR' by 'SetAnyTypeVR' (Used by |
| 20011210 | DcmReplaceInHeader) Added DcmWriteKretzFile: extracts a Kretz 3D file from a |
| 20011218 | dicomfile |
| | UICOHIIIC |

| 20020225 | Fix for Helax-TMS: when determining XFMs and (0x20, 0x1041) and (0x20, 0x50) are both absent, use (0x20, 0x32) |
|-------------|--|
| 20020403 | Fixed bug when UIDs are 64 bytes long. Some code butifying. |
| 20020403 | Added DcmWriteVRToFile |
| 20020411 | |
| | Added cacheing properties |
| 20020522 | Replaced ad hoc field allocation code by 'AVSdata_alloc' |
| 20020523 | Do not give warning for slice-order (DCM_E_SLICEORDER) |
| 20020609 | Pass MaxCompressionMode that is set to 4 |
| 20020620 | Adjustment to CalcXfm for multi-frame images. |
| 20020814 | Added two Print error-messages |
| 20020930 | Added MAXSLICES to optional extraparams |
| 20021028 | Exported GetFloatsFromKey. Try te get XFM's of multiframe objects right. |
| 20021105 | Get rid of scout-views when loading a volume (in |
| 20021103 | 'SortSliceDDOs') |
| 20021118 | Fix in multiframe XFM containing 'GridFrameOffsetVector' |
| 20030122 | JPEG pixeldata support; Fixed memory leak |
| 20030122 | When SliceCoords are not provided, sort dicom-objects on |
| 20030120 | imagenumber |
| 20030130 | Support for 3D private Kretz ultrasound |
| 20030434 | Changed all calls to obsolete PDU.Write(&DDO) to |
| 20030424 | PDU.Write(&DDO, uid). Fix in handling of JPEG compressed |
| | images. Version to 2.0 |
| 20030519 | Fix XFMs when ImagePositionPatient contradicts |
| 20020219 | SliceLocation. Now the slicecoord in ImagePositionPatient is |
| | preferred (Marconi-fix). |
| 20030523 | Fix: above change frustrated coronal and sagittal MRI |
| 20030716 | Workaround for sloppy Adac NM multiframe reconstructions |
| 20030710 | (@#\$%^&*) |
| 20041116 | Start on time series recognition, now return unsorted |
| 20041117 | 'proper' time series (with exact N copies of each slice with |
| | given coordinate) are sorted on derived frame# (order of |
| | image#) then coords; but still returned as 3D. MATPEL and |
| | WRLDMATC know how to make 4D data out of such image |
| | data (CONQUEST does not yet). |
| | This option should read 4D CT (not tested) as well as 4D MRI/ |
| | DTI (tested) as long as all frames are sent as one series. |
| 20041119 | Adjustment in CalcXfm |
| 20041119 | Added support for 4D sliced object, now sent out as 4D field |
| 20041124 | Merged fix ljz 20041119 |
| 20041201 | Improved detection of 4D data, now allow fringes, e.g., if slices |
| | at certain locations occur NMMMMKL times, N slices at start |
| | and K+L slices at end are removed. In this way, both Philips |
| | and GE DTI and perfusion data (without fringes, e.g., |
| | MMMMMM) and Siemens RCCT data is supported. Note 1: |
| | Siemens writes % of cycle in 0018,0022 as 'TP100PC5576', |
| | where 100 is the %. Not used for now, 4D data is just ordered |
| | based on slice number instead, with coordinates 0, 1, Note 2: |
| | some localizer series are now returned as 4D as well. |
| 20041221 | Fix in 4D reader for out-of order images; first sort on image#, |
| | later in index |
| 20050301 | Fix in dubious check on 'Proper4D' |
| 20050301 | One more check on 'Proper4D': at least half of the slices should |
| _00000 | be Proper4D; Fix in last check |
| | p, |

| 20050418 | Fix in WriteBmp when all pixelvalues are equal |
|----------------------|--|
| 20050804 | Fix in check on 'Proper4D' |
| 20050905 | Added SOP 31 for query: modality worklist query |
| 20060531 | Moved FreeOutputField to field.cpp and field.h |
| 20060701 | Added warning on order of 4D data - Messagebox needs to be |
| | replaced |
| 20060913 | Replaced GetFloatsFromKey call by GetFloatsFromVR calls |
| 20061020 | Fixed bug in GetFloatsFromVR |
| 20061030 | SortSliceDDOs crashed on MR scans from Lucas hospital |
| 20070112 | Added exported function DcmReadJpeg |
| 20070119 | Using DcmSetExtraParams SORTMODE=1, slices will be |
| | sorted on ascending coordinate, SORTMODE=2 means |
| 20070220 | descending. Fixed bug in SortSliceDDOs. Fixed bug in SetAnyTypeVR; Added an errormessage |
| 20070220 | Attempt to fix frame reversal - debug code temp off |
| 20070220 | prealloc data pointer during recieve to allocate large block first: |
| 20070300 | allows loading larger scans |
| 20070730 | Dirty fix for CMS RTDOSE |
| 20070902 | DcmWriteVRToFile will now also write sequence item to file |
| 20070902 | as raw VR dump; takes Index as extra par |
| 20071127 | Support for multiframe-objects where ImagePositionPatient is |
| | located in a DetectorInformationSequence |
| 20080313 | Fix: In SortSliceDDOs(), long ScanOptions could lead to |
| | crashes or other undesired behaviour; Removed some warnings |
| 20080318 | In CreateLastPropertiesField(), a few properties that resided |
| | deep in sequences for RTDOSE were added. |
| 20080320 | and put in a separate function |
| 20080717 | Support of Pinnacle DOSE in CalcXfm() |
| 20080812 | Support of Varian's Eclipse DOSE in CalcXfm() |
| 20080908 | Implemented &Philips to load embedded 4D ultrasound |
| 20081007 | Compute location of philips subvolumes by length/N |
| 20081014 | Also accept QueryIni-fields that contain Header/Key/Value |
| • • • • • • • | instead of Key/Value |
| 20090605 | Fixed crash in DcmMoveHere() when GetDDOarray() returns |
| 20000600 | OK, but no data were received |
| 20090608 | Fix: Due to different AcquisitionTime the warning 'Inconsistent |
| 20000610 | Slices' was given too often |
| 20090610 20091029 | Added "Upi is NOT unique: DANGER!!" error-message |
| 20091029 | Adapted for 64-bits version Added workaround for illegal (incomplete) query response |
| 20100427 | from Kodak |
| 20100811 | Always return at least one record in DcmFind(), containing the |
| 20100011 | query tags; Recoded the Kodak workaround. Now only matches |
| | to the query tags are returned, not any additional info that the |
| | server might provide. In parameter pszNKIcommand1 of |
| | DcmEcho() starts with '#', then the EchoResponse |
| | sent by the server in (0x9999,0x0401) will be dumped to file. |
| 20100827 | Fixed memory leak in ProcessVRs(), updated documentation |
| 20101130 | In DicomMoverHedaerHere, translate 'Unknown' tags that ARE |
| | present in the library back to (gggg,eeee) |
| 20101208 | Fix: Prealloc did not allocate enough in case SamplesPerPixel |
| | is unequal to one |
| 2011013 | Fix: Prealloc did not allocate enough in case BitsAlocated is |
| | eight or more bits higher than BitsStored |
| | |

| 20110202 | Fix: Prealloc was overdoing the alloc by a factor 8 |
|--|---|
| 20110418 | Removed MessageBox "Respiratory cycle propably transmitted |
| 20110525 | wrong" |
| 20110525 | Fix: Prealloc might not allocate enough if a smaller scout-view |
| | is transmitted as the last slice of a volume; administrate the pre- |
| 20110817 | allocated amount. |
| 20110617 | Added errormessages for DCM_E_CTREF_REDEFINED and DCM_E_ISOC_REDEFINED |
| 20110818 | Call progress callback for QUERY and MOVE (in the main |
| 20110010 | thread) |
| 20110912 | Support float and double type in header dump |
| 20120110 | Fixed rare access violation in FillDDO() |
| 20120329 | Increased MAXFRAMECOUNT from 100 to 250 because |
| | DCE-MR can have a lot of timeframes. (If in future a 4D scan |
| | is mistaken for a 3D one, increasing it more might help) |
| 20120628 | Some work on Spectroscopy |
| 20120629 | Removed MkTypedDicomObject(). Library is now always |
| | attached in ServerChild(); Replaced 'ImageNumber' by |
| 20120012 | 'InstanceNumber' |
| 20120913 20121030 | More work on Spectroscopy In DcmReplaceInHeader() write chapter 10 explicit files |
| 20121030 | (except when the destination filename has a v2 extension) |
| 20121102 | In GetSliceCoord(), for US images, use |
| 20121102 | ImageTranslationVector |
| 20130122 | Corrected handling of veclen==strlen() in FillDDO() (see |
| | 20120110) |
| 20130125 | Added DcmFreeCache() |
| 20130211 | Added CheckPETScaling |
| 20130212 | DCM_E_INCONSISTANT_SLICES if PET scaling has been |
| | |
| 20120410 | adjusted Simplified FindPosource() in DIIMain(); now also supports |
| 20130410 | Simplified FindResource() in DllMain(): now also supports |
| | Simplified FindResource() in DllMain(): now also supports x64\CqDicom.dll |
| 20130410 20130503 | Simplified FindResource() in DllMain(): now also supports x64\CqDicom.dll Allow reentry of CqDicom.dll, removed unused gl_iImageNo, |
| | Simplified FindResource() in DllMain(): now also supports x64\CqDicom.dll |
| | Simplified FindResource() in DllMain(): now also supports x64\CqDicom.dll Allow reentry of CqDicom.dll, removed unused gl_iImageNo, resolved memory leaks, do not wait 100 seconds in case of |
| | Simplified FindResource() in DllMain(): now also supports x64\CqDicom.dll Allow reentry of CqDicom.dll, removed unused gl_iImageNo, resolved memory leaks, do not wait 100 seconds in case of 0xc004 server response, make sure that gl_pLastProperties is not freed after caching and explicitly pass gl_pLastProperties to CreateLastProperties() for readability, |
| | Simplified FindResource() in DllMain(): now also supports x64\CqDicom.dll Allow reentry of CqDicom.dll, removed unused gl_iImageNo, resolved memory leaks, do not wait 100 seconds in case of 0xc004 server response, make sure that gl_pLastProperties is not freed after caching and explicitly pass gl_pLastProperties to CreateLastProperties() for readability, replaced DcmMoveHere() by DcmMoveHereInternal() to allow |
| 20130503 | Simplified FindResource() in DllMain(): now also supports x64\CqDicom.dll Allow reentry of CqDicom.dll, removed unused gl_iImageNo, resolved memory leaks, do not wait 100 seconds in case of 0xc004 server response, make sure that gl_pLastProperties is not freed after caching and explicitly pass gl_pLastProperties to CreateLastProperties() for readability, replaced DcmMoveHere() by DcmMoveHereInternal() to allow exported function to free up memory |
| 20130503 20130522 | Simplified FindResource() in DllMain(): now also supports x64\CqDicom.dll Allow reentry of CqDicom.dll, removed unused gl_iImageNo, resolved memory leaks, do not wait 100 seconds in case of 0xc004 server response, make sure that gl_pLastProperties is not freed after caching and explicitly pass gl_pLastProperties to CreateLastProperties() for readability, replaced DcmMoveHere() by DcmMoveHereInternal() to allow exported function to free up memory Use GetSliceCoord to find sldir |
| 20130503 | Simplified FindResource() in DllMain(): now also supports x64\CqDicom.dll Allow reentry of CqDicom.dll, removed unused gl_iImageNo, resolved memory leaks, do not wait 100 seconds in case of 0xc004 server response, make sure that gl_pLastProperties is not freed after caching and explicitly pass gl_pLastProperties to CreateLastProperties() for readability, replaced DcmMoveHere() by DcmMoveHereInternal() to allow exported function to free up memory Use GetSliceCoord to find sldir More advanced error handling: use DCM_E_MAX+1 for |
| 20130503 20130522 | Simplified FindResource() in DllMain(): now also supports x64\CqDicom.dll Allow reentry of CqDicom.dll, removed unused gl_iImageNo, resolved memory leaks, do not wait 100 seconds in case of 0xc004 server response, make sure that gl_pLastProperties is not freed after caching and explicitly pass gl_pLastProperties to CreateLastProperties() for readability, replaced DcmMoveHere() by DcmMoveHereInternal() to allow exported function to free up memory Use GetSliceCoord to find sldir More advanced error handling: use DCM_E_MAX+1 for custom message trapped by HandleError being passed to |
| 20130503 20130522 20130619 | Simplified FindResource() in DllMain(): now also supports x64\CqDicom.dll Allow reentry of CqDicom.dll, removed unused gl_iImageNo, resolved memory leaks, do not wait 100 seconds in case of 0xc004 server response, make sure that gl_pLastProperties is not freed after caching and explicitly pass gl_pLastProperties to CreateLastProperties() for readability, replaced DcmMoveHere() by DcmMoveHereInternal() to allow exported function to free up memory Use GetSliceCoord to find sldir More advanced error handling: use DCM_E_MAX+1 for custom message trapped by HandleError being passed to SetDicomErrorHandler(); |
| 20130503 20130522 20130619 20130620 | Simplified FindResource() in DllMain(): now also supports x64\CqDicom.dll Allow reentry of CqDicom.dll, removed unused gl_iImageNo, resolved memory leaks, do not wait 100 seconds in case of 0xc004 server response, make sure that gl_pLastProperties is not freed after caching and explicitly pass gl_pLastProperties to CreateLastProperties() for readability, replaced DcmMoveHere() by DcmMoveHereInternal() to allow exported function to free up memory Use GetSliceCoord to find sldir More advanced error handling: use DCM_E_MAX+1 for custom message trapped by HandleError being passed to SetDicomErrorHandler(); Improved error handling for all exported functions |
| 20130503 20130522 20130619 | Simplified FindResource() in DllMain(): now also supports x64\CqDicom.dll Allow reentry of CqDicom.dll, removed unused gl_iImageNo, resolved memory leaks, do not wait 100 seconds in case of 0xc004 server response, make sure that gl_pLastProperties is not freed after caching and explicitly pass gl_pLastProperties to CreateLastProperties() for readability, replaced DcmMoveHere() by DcmMoveHereInternal() to allow exported function to free up memory Use GetSliceCoord to find sldir More advanced error handling: use DCM_E_MAX+1 for custom message trapped by HandleError being passed to SetDicomErrorHandler(); Improved error handling for all exported functions Merged |
| 20130503 20130522 20130619 20130620 20130711 | Simplified FindResource() in DllMain(): now also supports x64\CqDicom.dll Allow reentry of CqDicom.dll, removed unused gl_iImageNo, resolved memory leaks, do not wait 100 seconds in case of 0xc004 server response, make sure that gl_pLastProperties is not freed after caching and explicitly pass gl_pLastProperties to CreateLastProperties() for readability, replaced DcmMoveHere() by DcmMoveHereInternal() to allow exported function to free up memory Use GetSliceCoord to find sldir More advanced error handling: use DCM_E_MAX+1 for custom message trapped by HandleError being passed to SetDicomErrorHandler(); Improved error handling for all exported functions |
| 20130503 20130522 20130619 20130620 20130711 | Simplified FindResource() in DllMain(): now also supports x64\CqDicom.dll Allow reentry of CqDicom.dll, removed unused gl_iImageNo, resolved memory leaks, do not wait 100 seconds in case of 0xc004 server response, make sure that gl_pLastProperties is not freed after caching and explicitly pass gl_pLastProperties to CreateLastProperties() for readability, replaced DcmMoveHere() by DcmMoveHereInternal() to allow exported function to free up memory Use GetSliceCoord to find sldir More advanced error handling: use DCM_E_MAX+1 for custom message trapped by HandleError being passed to SetDicomErrorHandler(); Improved error handling for all exported functions Merged Added check output file check before calling CheckRTDoseScaling() in DcmMoveHereInternal() Added special case for B1 Map from Philips Scanners. |
| 20130503 20130522 20130619 20130620 20130711 20130712 | Simplified FindResource() in DllMain(): now also supports x64\CqDicom.dll Allow reentry of CqDicom.dll, removed unused gl_iImageNo, resolved memory leaks, do not wait 100 seconds in case of 0xc004 server response, make sure that gl_pLastProperties is not freed after caching and explicitly pass gl_pLastProperties to CreateLastProperties() for readability, replaced DcmMoveHere() by DcmMoveHereInternal() to allow exported function to free up memory Use GetSliceCoord to find sldir More advanced error handling: use DCM_E_MAX+1 for custom message trapped by HandleError being passed to SetDicomErrorHandler(); Improved error handling for all exported functions Merged Added check output file check before calling CheckRTDoseScaling() in DcmMoveHereInternal() Added special case for B1 Map from Philips Scanners. Corrected wrong slice direction and transformation calculation |
| 20130503 20130522 20130619 20130620 20130711 20130712 20130812 | Simplified FindResource() in DllMain(): now also supports x64\CqDicom.dll Allow reentry of CqDicom.dll, removed unused gl_iImageNo, resolved memory leaks, do not wait 100 seconds in case of 0xc004 server response, make sure that gl_pLastProperties is not freed after caching and explicitly pass gl_pLastProperties to CreateLastProperties() for readability, replaced DcmMoveHere() by DcmMoveHereInternal() to allow exported function to free up memory Use GetSliceCoord to find sldir More advanced error handling: use DCM_E_MAX+1 for custom message trapped by HandleError being passed to SetDicomErrorHandler(); Improved error handling for all exported functions Merged Added check output file check before calling CheckRTDoseScaling() in DcmMoveHereInternal() Added special case for B1 Map from Philips Scanners. Corrected wrong slice direction and transformation calculation for sagittal and coronal scan by checking which value of |
| 20130503 20130522 20130619 20130620 20130711 20130712 20130812 | Simplified FindResource() in DllMain(): now also supports x64\CqDicom.dll Allow reentry of CqDicom.dll, removed unused gl_iImageNo, resolved memory leaks, do not wait 100 seconds in case of 0xc004 server response, make sure that gl_pLastProperties is not freed after caching and explicitly pass gl_pLastProperties to CreateLastProperties() for readability, replaced DcmMoveHere() by DcmMoveHereInternal() to allow exported function to free up memory Use GetSliceCoord to find sldir More advanced error handling: use DCM_E_MAX+1 for custom message trapped by HandleError being passed to SetDicomErrorHandler(); Improved error handling for all exported functions Merged Added check output file check before calling CheckRTDoseScaling() in DcmMoveHereInternal() Added special case for B1 Map from Philips Scanners. Corrected wrong slice direction and transformation calculation |

CQDICOM.H (part of conquest interface DLL):

| 19980330 | Creation |
|----------|---|
| 19980331 | Added exported DcmMkBinaryLib |
| 19980414 | Restricted the HeaderDump to max 4096 data, and the number of bytes on one line to 256. |
| 19980416 | Added sequence support in HeaderDump |
| 19980420 | Fixed last written line in multiple line sequence dump |
| | Added functions DcmFind, DcmMove and DcmMoveHere |
| 19980526 | Added DcmCreateBitmap |
| 19980610 | Changed BGR to RGB in DcmCreateBitmap. |
| | Added DcmMoveHeaderHere |
| 19980629 | Fix: DimX and DimY were reversed. |
| | Improved efficiency when loading one slice. |
| 19980630 | Fix: last change caused crashes |
| 19980707 | Removed some checks to allow non-standard Philips images |
| | Added DcmSetProgressHook |
| 19980708 | Added DcmReplaceInHeader, which can be used for |
| | anonymization of dicom images. |
| 19980709 | Added C-CANCEL command object when a ProgressHook |
| | stops or aborts a DcmMove operation. Added support for |
| | NkiPrivateCompressed images in DcmMoveHere. |
| 19980826 | Added #pragma pack(1) in Field.h |
| 19981105 | Added DcmReadHeader |
| 19981127 | Added DcmGetLastXfms |
| 19990108 | Updated the dictionary for DICOM-RT support |
| 19990114 | Slices are sorted on coord. When duplicate coords exist, the last |
| | received slice eliminate previous ones. |
| | Included changed SOP-list by MvH |
| 19981127 | Added DcmTree, DcmPatientList and DcmSetLocal |
| 19990825 | Added extended patientlist export: DcmPatientList2 |
| 19990826 | Added DcmMoveFilesHere |
| 20000824 | Added DcmFileGetRtStructNames and DcmFileGetRtStruct |
| 20020425 | Added DcmVersion and DcmCreateRtStructFile |
| COODEAT | EDCM CDD (in active most of congress interface DLI). |

CQCREATEDCM.CPP (inactive part of conquest interface DLL):

| 20020417 20020502 | Created. All created DICOM stuff should go in here DcmCreateRtStructFile seems to work |
|----------------------|--|
| 20041119 | Work on DcmCreateSliceFiles |
| 20041128 | Tested write new scan on grid (and properties) of existing scan: |
| | needs ScanToDicom matrix to correctly compute |
| | ImagePositionPatient; writes too many \\\\ in tags; |
| | SliceLocation not written; Now write abs slice thickness; |
| | Added missing *10 in Z coordinate of ImagePositionPatient; |
| | Added a minus to the Z coordinate of ImagePositionPatient: |
| | this is a kludge that works only for scans read with CQDICOM |
| | without rotations in scanner. Added creation date and time in |
| | default series description |
| 20041223 | Added XFM parameter to DcmCreateSliceFiles |
| | Added DcmCreateRtPlanFileLight |
| | Fix: also incoporate ImageOrientationPatient, |
| | FrameOfReference, StudyID |
| 20050906 | Some fixes in DcmCreateSliceFiles |
| | Added 'DcmCreateRtPlanFileLight()' |
| | |

| 20051018 | Several fixes in DcmCreateSliceFiles: - Required tags KVP and PositionReferenceIndicator were missing - Element numbers of RescaleSlope and |
|---|---|
| | RescaleIntercept were wrong; Set all MU's to 0 in |
| | DcmCreateRtPlanFileLight; added OperatorsName |
| 20060704 | Increased stringbuffer in GetContouData() (crashed ridiculously detailed on ESTRO data) |
| 20061018 | In DcmCreateSliceFiles, don't insert sequence items. |
| 20070220 | Moved UID_ROOT to somewhere else |
| 20070423 | In DcmCreateSliceFiles, use scan or extra properties for ImagePositionPatient |
| 20070510 | Made GetInterpretedType() more aware of markers. |
| 20070705 | Fixed bug in DcmCreateSliceFiles() |
| 20070726 | In DcmCreateSliceFiles, don't insert sequence items of |
| | ExtraProperties either! |
| 20071018 | In DcmCreateRtStructFile(), the created UID is stored in a |
| • | global for later use |
| 20080416 | DcmCreateSliceFiles() also supports 4D and non-CT data |
| 20080603 | Few adjustments in DcmCreateSliceFiles() |
| 20080708 | Made PixelSize always positive in DcmCreateSliceFiles() |
| 20080717 | The filename parameter of DcmCreateSliceFiles() may also contain RemoteAE;RemoteIP;RemotePort for immediate |
| 20000020 | pushing of created slices |
| 20080930 20081001 | Fixed bug in last change |
| 20081001 | Adapted for BCB's VR() change Moved filename containing RemoteAE;RemoteIP;RemotePort |
| 20061002 | to separate function |
| 20081027 | In DcmCreateUID(), the last digits are now time related, and |
| | not the IP address of the caller (adjustment to XVI |
| | requirements). |
| 20090127 | Had a go in implementing xfm in DcmCreateSliceFiles |
| | Fixed access to RefereningPhysician in DcmCreateSliceFiles |
| | Fixed read only problem of pszFileName in |
| | DcmCreateSliceFiles, and allow AE;IP;PORT without traling; |
| 20090128 | Revamped xfm in DcmCreateSliceFiles:xfm is now |
| | ScanToDicomPatient |
| 20090130 | Fixed it! And documented code to write as read |
| 20090131 | Created ad-hoc, dicom and siddon modes (passed in |
| | iNewSTudy) |
| 20090210 | In DcmCreateSliceFiles, Series and Image Date/Time can be set |
| | in pExtraProps when it is NOT a new Study. SoftwareVersion can also be set in pExtraProps. |
| 20090513 | Support private and short tags in DcmCreateSliceFiles() |
| 20090523 | Allow RTDOSE export through DcmCreateSliceFiles: expects |
| | dose always in 0.01 Gy;Max number of slices to 2000; added |
| | missing test on presence of pXfm |
| 20090524 | Reverted a line of test code |
| 20090602 | Fixed handling private tags in IsGroupElement() |
| 20100303 | Added DcmCreateSC (Secondary Capture, Monochrome or |
| | color image); Fix : DcmCreateSliceFiles messed up non-square slices |
| 20100409 | |
| 40100 4 09 | DcmCreateSliceFiles() now uses SeriesNumber and StudyID from ExtraProperties |
| | nom Exual Topoliues |

| 20100512 | Kodak did not like our SC files without PlanarConfiguration (0x0028, 0x0006) |
|----------|---|
| 20110104 | Do not override StudyTime when no new study |
| | Take AccessionNumber from extraprops or props when present |
| | Take AcquisitionNumber from extraprops when present |
| 20110127 | DcmCreateSliceFiles() now accepts xxxx[y].zzzzz sequence |
| | properties |
| 20110203 | Fixed stack problem in GetPropertyValue() |
| 20110204 | Made sure that the pixel data is not stored twice due to |
| 20110215 | sequences Fix '\\' and hexstrings in the header when writing dicom files |
| 20110213 | Added DcmConvertPixelData |
| 20110909 | Fixed small bug (RGBtoMONO)in DcmConvertPixelData() |
| 20120406 | Added support for setting float tags; NewFloatVR() |
| 20120927 | Fixed problem in DcmCreateSliceFiles() when a sequence was |
| | passed in the properties in (gggg,eeee) format |
| 20121024 | In DcmCreateSliceFiles, reduce (if possible) BitsStored and |
| | HighBit so that the dicom-scan (when reading it back) will not |
| | become integer. |
| 20130216 | Fixed CREATE_SLICE_FILES Siddon mode for non-square |
| | images (transpose called wrong) |
| 20130620 | Improved error handling for all exported functions |
| 20130627 | Fixed the memory leak in DcmCreateRtStructFile. The reason |
| | for this is the fact that GetPropertyValue function uses static |
| | pointer, and returns this. After the last call, |
| | dynamically allocated static pointer remains in the memory. |
| 20130627 | Also corrected the buffer size check in GetPropertyValue. Fixed memory leaks reported by Klockwork, and added missing |
| 20130027 | free(pTmp)s |
| 20130628 | Removed static pointer from GetPropertyValue, and passed a |
| 20120020 | local pointer from upper calling function. |
| 20130702 | Corrected a typo in history and the added Null pointer |
| | dereference check for pTmpPropertyStr. |
| 20130819 | Fixed a few malloc/free problems in DcmCreateSliceFiles |
| | which resulted in a crash. |
| 20131017 | Added if checks around scan and extra property field in |
| | DcmCreateSliceFiles and DcmCreateSC before accessing |
| | members of the field. |
| | |

CQGLOBAL.H (part of conquest interface DLL):

| 19990318 | Some cosmetics |
|----------|--|
| 19990511 | Added a few warnings and prototype of MoveDDOHere |
| 19990915 | Added PixelRepresentation (0028,0103) in SLICE_INFO. |
| 19991028 | Added prototype of Signed_compute() |
| 19991122 | Added errorcode of failed C-STORE-RSP |
| 20000317 | Added BitsStored (0028,0101) in SLICE_INFO. |
| 20000405 | Added CheckRangeOfCT prototypes |
| | Added RescaleIntercept (0028,1052) in SLICE_INFO. |
| | Added RescaleSlope (0028,1053) in SLICE_INFO. |
| 20000530 | Added ImagePlanePixelSpacing (3002,0011) |
| 20000707 | Added gl_ppvCache |
| 20000710 | Added prototype of CacheInitFromSelectionStrings |
| 20000824 | Added prototype of CacheSetReferencedStruct |

| 20000828 | Added prototype of Dxfm_compute |
|----------|---|
| 20000829 | Added an ErrorCode |
| 20010123 | Added prototype of GetSliceCoord |
| 20010410 | Added gl_hevEndReceive |
| 20010426 | Renamed gl_hevEndReceive to gl_hReceiveThreadIsListening |
| 20010508 | Changed prototype of nki_private_decompress() |
| 20010629 | Added DoseGridScaling (3004,000e) in SLICE_INFO. |
| 20010717 | Added gl_pszExtraParams |
| 20010831 | Added prototype of CheckModalityLUT |
| 20020418 | Added prototypes for cache-ing properties |
| 20020424 | Added declaration of field gl_pLastProperties |
| 20020613 | Added prototype of MkTypedDicomObject |
| 20020814 | Added two Print error-codes |
| 20021028 | Added prototype of GetFloatsFromKey |
| 20021213 | Added RtImagePosition to SLICE_INFO structure |
| 20030122 | Added prototype of DecompressJPEG |
| 20030128 | Added 'iNbTimeSequences' and szPhotometricInterpretation to |
| | the SLICE_INFO structure |
| 20030129 | Added prototype of READ_KRETZ_compute |
| 20041119 | Added support for 4D sliced object |
| 20050203 | Added prototype of CacheCleanupRtObjectFiles |
| 20050906 | Added prototype of CacheGetReferencedProperties |
| 20060913 | Added prototype of GetFloatsFromVR |
| 20070130 | Added ec DCM_E_INVALID_RTPLAN |
| 20070220 | Sdded a few prototypes and an errorcode |
| 20070506 | Added optional prealloc data pointer to CreateOutputField |
| 20070522 | Added szSoftwareVersions to SLICE_INFO structure |
| 20080717 | Added prototype of DcmStoreFiles |
| 20081002 | Added prototype of FileNameOrDicomNode |
| 20090204 | Added prototypes for transpose_Xbytes_inplace() |
| 20090602 | Added fAcquisitionTime to SLICE_INFO, for coodinates of |
| | 4th dimension |
| 20090610 | Added DCM_E_MULTIPLE_RTPLAN, used when 'UPI' is not |
| | unique |
| 20110126 | Added prototype of FieldToDicomObject |
| 20110418 | Added waring DCM_E_RESPIRATORY_CYCLE |
| 20110525 | Added optional iPreAllocSize to CreateOutputField |
| 20110817 | Added errorcodes DCM_E_CTREF_REDEFINED and |
| | DCM_E_ISOC_REDEFINED |
| 20120629 | Removed MkTypedDicomObject() prototype |
| 20120913 | Changed returntype of FillSliceInfo() |
| 20121002 | Added comment on SLICE_INFO.fAcquisitionTime |
| 20130125 | Added extern void FreeCache(); |
| 20130211 | Added CheckPETScaling |
| 20130424 | Removed undefined gl_pOutputField |
| 20130522 | Added gl_sldir |
| 20130619 | Added DCM_E_CUSTOM, gl_LastError, gl_LastErrorText[] |
| | and HandleError() |
| 20130812 | Added szImageType[64] in SLICE_INFO, and functions |
| | CacheGetReferencedScanUrlForBeam and |
| | CheckB1MapScaling. |
| | |

CQRTOBJECTS.CPP (inactive part of conquest interface DLL):

| 4000040= | |
|--|---|
| 19990407 | Created. All DICOM RT stuff should go in here |
| 19990404 | Added RTSTRUCT |
| 19990511 | Added RTPLAN. Still under construction !!! |
| 19990825 | Some changes in RTPLAN; still under construction |
| 20000619 | Added GetStructInfo to be used by TREE |
| 20000707 | Lots of work on RTSTRUCT and RTPLAN |
| 20000707 | Structure and beams has wrong XFM when patient is prone |
| 20000828 | |
| | Added GetRtBeamFromRtImage |
| 20010302 | Fix: improved temporary filename |
| 20010410 | Again improved temporary filename |
| 20010619 | Added some comments on RTPlan organization. |
| 20010717 | Store szReferencedFrameOfReference in |
| | STRUCT_TREE_INFO; To do: in 'CalcBeamXfms' the |
| | collimator angle is not treated right when the patient is prone. |
| 20000824 | Added DcmFileGetRtStructNames and |
| | DcmFileGetRtStructFixed two small memory leaks. |
| 20020225 | Fixed free-ing twice in 'GetRtStruct' |
| 20020502 | Removed some warnings |
| 20020502 | Moved MkTypedDicomObject to CqServer.cpp |
| | |
| 20030122 | Some work on GetRtBeamFromRtImage: still under |
| 20020520 | construction due to world-wide lack of good data!!! |
| 20030520 | In GetRtStruct, fail with DCM_E_INTERNAL when there is no |
| | cached underlying scan. |
| 20050125 | Made beam field output contain short data instead of char data |
| | GetRtBeam has an optional string parameter to load a specific |
| | segment (= controlpoint); Added GetPlanInfo for TREE |
| | building purposes |
| | |
| 20050131 | |
| 20050131 | Moved MkTypedDicomObject() in GetRtBeam to |
| | Moved MkTypedDicomObject() in GetRtBeam to StoreBeamPropertiesInCache |
| 20050201 | Moved MkTypedDicomObject() in GetRtBeam to StoreBeamPropertiesInCache Fix: do not delete pDDO in GetRtBeam anymore |
| | Moved MkTypedDicomObject() in GetRtBeam to StoreBeamPropertiesInCache Fix: do not delete pDDO in GetRtBeam anymore Fix: When settings of a controlpoint do not change, they may |
| 20050201 20050202 | Moved MkTypedDicomObject() in GetRtBeam to StoreBeamPropertiesInCache Fix: do not delete pDDO in GetRtBeam anymore Fix: When settings of a controlpoint do not change, they may be defined only at controlpoint 0. |
| 20050201 | Moved MkTypedDicomObject() in GetRtBeam to StoreBeamPropertiesInCache Fix: do not delete pDDO in GetRtBeam anymore Fix: When settings of a controlpoint do not change, they may be defined only at controlpoint 0. Change in CalcBeamXfms for FeetFirst and Prone patient- |
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| 20050201 20050202 20050921 | Moved MkTypedDicomObject() in GetRtBeam to StoreBeamPropertiesInCache Fix: do not delete pDDO in GetRtBeam anymore Fix: When settings of a controlpoint do not change, they may be defined only at controlpoint 0. Change in CalcBeamXfms for FeetFirst and Prone patient-positions (This change is already in use for two months, and has been approved by Peter Remeijer) |
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| 20050201 20050202 20050921 20070705 | Moved MkTypedDicomObject() in GetRtBeam to StoreBeamPropertiesInCache Fix: do not delete pDDO in GetRtBeam anymore Fix: When settings of a controlpoint do not change, they may be defined only at controlpoint 0. Change in CalcBeamXfms for FeetFirst and Prone patient-positions (This change is already in use for two months, and has been approved by Peter Remeijer) Gave individual contours instead of organs a unique number (solves the problem of more than one contour in a slice) |
| 20050201 20050202 20050921 20070705 20080313 | Moved MkTypedDicomObject() in GetRtBeam to StoreBeamPropertiesInCache Fix: do not delete pDDO in GetRtBeam anymore Fix: When settings of a controlpoint do not change, they may be defined only at controlpoint 0. Change in CalcBeamXfms for FeetFirst and Prone patient-positions (This change is already in use for two months, and has been approved by Peter Remeijer) Gave individual contours instead of organs a unique number (solves the problem of more than one contour in a slice) Removed some warnings |
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| 20050201 20050202 20050921 20070705 20080313 20080717 20091028 20111206 20120629 20130124 20130125 | Moved MkTypedDicomObject() in GetRtBeam to StoreBeamPropertiesInCache Fix: do not delete pDDO in GetRtBeam anymore Fix: When settings of a controlpoint do not change, they may be defined only at controlpoint 0. Change in CalcBeamXfms for FeetFirst and Prone patient-positions (This change is already in use for two months, and has been approved by Peter Remeijer) Gave individual contours instead of organs a unique number (solves the problem of more than one contour in a slice) Removed some warnings Removed empty structures from the PatientTree in GetStructInfo() Adapted for 64-bits version Fixed table-angle for prone patients. Removed MkTypedDicomObject(). Library is now always attached in ServerChild(); Replaced 'ImageNumber' by 'InstanceNumber' in comments Save ROIDisplayColor in StructTreeInfo; use some default color scheme if ROIDisplayColor is not found Avoid memory leaks in GetRtStruct() |
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| 20050201 20050202 20050921 20070705 20080313 20080717 20091028 20111206 20120629 20130124 20130125 20130129 20130206 | Moved MkTypedDicomObject() in GetRtBeam to StoreBeamPropertiesInCache Fix: do not delete pDDO in GetRtBeam anymore Fix: When settings of a controlpoint do not change, they may be defined only at controlpoint 0. Change in CalcBeamXfms for FeetFirst and Prone patient-positions (This change is already in use for two months, and has been approved by Peter Remeijer) Gave individual contours instead of organs a unique number (solves the problem of more than one contour in a slice) Removed some warnings Removed empty structures from the PatientTree in GetStructInfo() Adapted for 64-bits version Fixed table-angle for prone patients. Removed MkTypedDicomObject(). Library is now always attached in ServerChild(); Replaced 'ImageNumber' by 'InstanceNumber' in comments Save ROIDisplayColor in StructTreeInfo; use some default color scheme if ROIDisplayColor is not found Avoid memory leaks in GetRtStruct() Typo in color generation Merged |
| 20050201 20050202 20050921 20070705 20080313 20080717 20091028 20111206 20120629 20130124 20130125 20130129 20130206 20130620 | Moved MkTypedDicomObject() in GetRtBeam to StoreBeamPropertiesInCache Fix: do not delete pDDO in GetRtBeam anymore Fix: When settings of a controlpoint do not change, they may be defined only at controlpoint 0. Change in CalcBeamXfms for FeetFirst and Prone patient-positions (This change is already in use for two months, and has been approved by Peter Remeijer) Gave individual contours instead of organs a unique number (solves the problem of more than one contour in a slice) Removed some warnings Removed empty structures from the PatientTree in GetStructInfo() Adapted for 64-bits version Fixed table-angle for prone patients. Removed MkTypedDicomObject(). Library is now always attached in ServerChild(); Replaced 'ImageNumber' by 'InstanceNumber' in comments Save ROIDisplayColor in StructTreeInfo; use some default color scheme if ROIDisplayColor is not found Avoid memory leaks in GetRtStruct() Typo in color generation Merged Improved error handling for all exported functions |
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CQRTOBJECTS.H (inactive part of conquest interface DLL):

| 19990407 | Created |
|----------|--|
| 20000619 | Added prototype of GetStructInfo |
| 20000707 | Added more RtObjectXXX prototypes |
| 20000824 | Added szReferencedStruct to BEAM_TREE_INFO. To be used |
| | in order to get the XFM of a beam IFF RTPlanGeometry equals |
| | 'PATIENT'. In the other case (when RTPlanGeometry equals |
| | 'TREATMENT_DEVICE'), the the XFM is defined by the 'IEC |
| | fixed coordinate system'; this case is not handled in CqDicom. |
| 20000829 | Added prototype of GetRtBeamFromRtImage |
| 20010717 | Added szReferencedFrameOfReference in |
| | STRUCT_TREE_INFO |
| | To do: in 'CalcBeamXfms' the collimator angle is not treated |
| | right when the patient is prone. |
| 20050126 | Moved DCM_PLAN and DCM_STRUCT typedefs to here; |
| | added a few strings to DCM_PLAN; Added prototype of |
| | GetPlanInfo; Added parameter to GetRtBeam |
| 20130124 | Added iColor to STRUCT_TREE_INFO |
| | |

CQTREE.CPP (inactive part of conquest interface DLL):

| 19990504 | Creation: Moved Tree and PatientList from Avs dcm to here |
|-----------|---|
| 19990511 | Adjustments concerning DcmSetLocal |
| 19990825 | Added extended patientlist export: DcmPatientList2 |
| 19990826 | Implemented DcmPatientList2 |
| 19990830 | Fix: ParseSelInfo did not handle an 'extra' Key/Value pair in a |
| | selection-string. |
| 19990906 | Improved Alias-names of Dicom Tree Interface |
| 19991019 | Besides CT and MR, the images of modalities US, DR and DS |
| | belonging to the same series are grouped into a single volume. |
| 19991026 | Use SeriesDescription in tree if no SeriesNumber/SeriesTime available |
| 19991028 | MultiFrame images will be treated as '.scan' instead of '.image'. |
| 19991029 | Added support for multiple multi-frame images in one series |
| | When MovingHere only one image, the C-FIND operation is |
| | skipped. Fix: EchoNumber was discarded when retrieving |
| | header-info |
| 20000126 | Fix: EchoNumber was used even when value is '(empty)', only |
| | in cases where EchoNumbers were needed in other parts of the |
| | tree. |
| 20000128 | Fix: three memory leaks |
| 20000426 | Adjustment for difference in response of Borland ODBC and |
| | Microsoft SQL: an empty string-field is returned as "" and " " |
| | respectively. |
| 20000707 | Put structures in the tree under a scan |
| 20000710 | Fix: Update cache when TREE has been bypassed |
| 20000717 | Fix: XFMs of multiframe-scans were not returned |
| 20000808: | Extra check: SOPInstanceUID must be passed in selection for |
| | RT objects; |
| 20000823 | Fix: Crash in building of TREE when the move-response of an |
| | RT-object was OK, but no DDO was transmitted. |
| 20000828 | Fix: Structure and beams has wrong XFM when patient is prone |
| | |

| 20000829 | Added RTIMAGE properties: 'refmeam', 'refbeamwordxfm' and |
|----------|--|
| | 'refbeamgantryxfm' |
| 20010420 | Added support for PatientID containing '/' or '\\'. |
| 20010619 | Start implementation of RTDose objects. |
| 20010717 | When RTStructs do not reference a Series, use |
| | ReferencedFrameOfReference if possible. Caller may use |
| | 'IMAGESONLY=1' in DcmSetExtraParams when grouping of |
| | images into scans is not desired. |
| 20011214 | Damn! It now seems best that US images are not grouped |
| | together anymore |
| 20020403 | Fixed bug when UIDs are 64 bytes long. Got rid of two #defs |
| 20020501 | Added cacheing properties |
| 20020521 | When modality equals PT, combine slices to a volume. |
| 20020613 | Allways use SeriesDescription in tree |
| 20020619 | Split date parts with dots; display studymodality (0008,0061) in |
| | study alias |
| 20020620 | Merged 20020613 with 20020619. Do not split dates. |
| 20020815 | In 'ParseDicomInfo' allow also ':' as a separator |
| 20021011 | Fix: When bypassing the TREE, cache was not initialized when |
| | retrieving a single image or a multi-frame volume |
| 20021011 | Added other query modes (49) for |
| 20021014 | DICOM_LOAD_PATIENTLIST (CreatePatientList) |
| 20021014 | Merged the two versions |
| 20021028 | Try to get XFM's of multiframe objects right. |
| 20030128 | Support for 3D TimeSequences, resulting in 4D 4-space output |
| | scans. Make check on QueryResponse case-insensitive (choked |
| 20020120 | on PatientID Test vs test) |
| 20030130 | Support for 3D private Kretz ultrasound |
| 20030213 | Above change crashed when in a FIND operation there is US |
| | present, and the queried dicomserver did not supply the |
| 20020624 | 'Manufacturer' key. |
| 20030624 | Support for multiframe dosegrids |
| 20030710 | Additional sorting of C-FIND result on S7OPInstanceUID |
| 20040525 | Also send PatientID when query/retrieving RT objects |
| 20050126 | Made better ALIAS in TREE for RTPLAN |
| | Made ALIAS in TREE of a series '(empty)' if no good ALIAS |
| | can be constructed |
| | Implemented inteface to load individual segments in a beam |
| | Moved DCM_PLAN and DCM_STRUCT typedefs to |
| 20050121 | "CqRtObjects.h" Charles are the sequences in "Store Pears Proporties In Cache" and |
| 20050131 | Check empty sequences in 'StoreBeamPropertiesInCache', and |
| 20050201 | made DDO a TypedDDO |
| 20050201 | Handle possibility of retrieval of beam properties before retrieval of outline in ReadKeys() |
| 20050203 | Fucntion GetRtDDO now caches DicomRT files. When a NEW |
| 20030203 | |
| | PatientTree is constructed, these files (of a different patient) are |
| 20051018 | deleted. This speeds up things enormously Support for Corvus in FixControlPointProperties |
| 20060103 | |
| 20000103 | Studydate queries on val instead of *val* (kodak could not handle it) |
| 20060531 | Added exported function 'DcmGetPlanPois' |
| 20061018 | Apply rotations to DcmGetPlanPois when the patient is not |
| 20001010 | HFS |
| 20061101 | Recoded 'DcmGetPlanPois' (pretty complicated now) |
| 20001101 | recould Democa and one (protty compriouted now) |
| | |

| 20061109 | ROI and POI RTStructs from Pinnacle do NOT have exactly |
|----------|--|
| | the same timestamp |
| 20070112 | Extra consistency check in DcmGetPlanPois |
| 20070220 | Adjested DcmGetPlanPois so it can handle 'derived' plans |
| | Added DcmShiftPlanIsoc |
| 20070419 | Fix in PatientTree in presence of long RTPlanName |
| 20070423 | Added outputstring pszCreatedUID to DcmShiftPlanIsoc |
| 20070508 | Fix: date query on empty mask failed |
| 20070522 | Temporary workaround for XVI-upi-bug in DcmShiftPlanIsoc() |
| 20070530 | Added DcmGetPlanStructUIDs() |
| 20070530 | Fixed bug in DcmGetPlanPois() when more than 1 isoc defined |
| | in RTSTRUCT |
| 20071018 | Added DcmGetLastCreatedStructUID and |
| | DcmSetLastCreatedStructUID. This is a mechanism so that a |
| | newly created RTStruct can be referenced in a shifted RTPlan. |
| 20071031 | In DcmGetPlanPois(), support 'QUIRT CqDicom' structuresets |
| | too. In CreateTree(), treat a marker as a structure |
| 20080313 | Support markers; treat them as structures; In |
| | DcmGetPlanPois(), the consistency check on isoc in plan and |
| | structureset is omitted. We take the isoc from the plan. |
| 20080318 | Store RTPLAN propertries also in cache, and added |
| | 'NumberOfFractionsPlanned' |
| 20080320 | In ReadKeys(), also use SOPInstanceUID for RTDOSE |
| 20080717 | Moved prototype of DcmStoreFiles to CqGlobal.h |
| 20080818 | Made to compile with MS7 (fabs on integer) |
| 20080908 | ix xfm2 for &Kretz, and implemented those for &Philips |
| 20081002 | Ajustment in the Tree for Plilps ultrasound (possible 3D scan in |
| 20001002 | private VR) |
| 20081124 | Fix matrix for philips 4D US (AMC patient 0321) |
| 20090202 | Fix display of study modality in patient list (is now in |
| | dictionary) |
| 20090610 | Added safety check in DcmGetPlanPois(), DcmShiftPlanIsoc() |
| | and DcmGetPlanStructUIDs() in case our so called UPI is NOT |
| | unique |
| 20091028 | Adapted for 64-bits version |
| 20091103 | Adjusted DcmGetPlanPois() to new Pinnacle version; should be |
| | backwards compatible. |
| 20100629 | Fixed FixControlPointProperties() for Nucletron RTPlans |
| 20100827 | Caller may use "EXCLUDERTOBJECTS=1" in |
| | DcmSetExtraParams when loading of RT Objects is not desired |
| | (e.g. for faster calls to CreateTree()) |
| 20101214 | Fix: GetRtDDO() now checks on whether something was |
| | actually received; Work on DcmGetDoseFromPlanURL() |
| 20110427 | Recoded CreateTree(). Also support for MR sub-volumes when |
| | ImageType is different |
| 20110503 | Created nice ALIAS for MR sub-volumes when ImageType is |
| | different |
| 20110516 | Fixed CreateTree() when there are stand-alone MR images with |
| | different ImageType |
| 20110525 | Fixed CreateTree() when an RTPLAN can be queried but not |
| | be loaded |
| 20110629 | Corrected CreateTree() for bExcludeRTObjects: the value of |
| | the first item was checked only |
| | |

| 20110708 | Added |
|----------------------|--|
| | Referenced Structure Set Sequence [X]. Referenced SOP Instance U |
| | ID to PlanProperties |
| 20110810 | Increased Tree-field from 96 to 128 vector bevause ImageType can be long |
| 20110817 | In GetPoisFromRTStruct(), check on redefinition of CTREF |
| 20110017 | and ISOC in an RTSTRUCT. If so: fail (Pinnacle allows this to |
| | happen). |
| 20110909 | Fixed ReadModality() when ExtraKey contains BOTH |
| 20120104 | EchoNumber and ImageType When attacking an RTSTRUCT to a goon in CreateTree(), do |
| 20120104 | When attaching an RTSTRUCT to a scan in CreateTree(), do not use ReferencedFrameOfReference anymore when |
| | ReferencedSeries could not be found. |
| 20120628 | Fix: GetImageTypeAlias() could crash DicomTree can be |
| | confined to a specific STUDYINSTANCEUID; Some work on |
| 20120720 | combining PET series to a 4D volume |
| 20120629 | Removed MkTypedDicomObject(). Library is now always attached in ServerChild(); Replaced 'ImageNumber' by |
| | 'InstanceNumber' and 'EchoNumber' by 'Echonumbers' |
| 20120906 | StudyLister: use DcmPatientList2() with iMaskMode=10. The |
| | StudyInstanceUIDs are returned in the last column. |
| 20120913 | ImageType in URLs are replaced (if possible) by a SubType of |
| | that ImageType that is unique within the Series. The aliases are replaced accordingly. |
| 20120914 | Fix: Improved logic in FindUniqueImageTypeSubstrings() |
| 20120924 | Reversed the sort-order in fnSortDicomQueryResult(). Now |
| | first on ImageType, then on EchoNumbers. This is needed so |
| | that MR volumes having 'BOLD' in the SeriesDescription |
| 20121000 | can be grouped to form 4D datasets.\ |
| 20121009 20121102 | Treat MR r2* the same as BOLD Group US images together when the manufacturer is "V" |
| 20121102 | Added COLOR=%d to RTSTRUCT in tree |
| 20130125 | Avoid memory leak in ReadModality() |
| 20130206 | Merged |
| 20130423 | Resolved memory leaks in TreeAdjustImageTypeMR() |
| | (always) and CreateTree() (error case only), addressed |
| 20130503 | CppCheck issues Replaced DcmMoveHere() by DcmMoveHereInternal(), ensure |
| 20130303 | that gl pLastProperties is not freed after caching |
| 20130503 | Added missing break in case statment in CreatePatientList, and |
| | changed the iMaskMode check from PatientSex(4) to |
| 20120710 | StudyDate(5) |
| 20130619 | Installed error handler passed to SetDicomErrorHandler() to intercept a.o. "out of memory" errors |
| 20130620 | Improved error handling for all exported functions |
| 20130809 | Resolved memory leaks in DcmGetPlanStructUIDs() |
| 20130812 | Updated Caching in CqDicom. Main problem was reading |
| 20121001 | Xfms and beam properties. |
| 20131004 | Made sure that an empty patientlist does not result in an |
| 20131009 | exception in CreatePatientList Added DCM MODALITY DOSE case in retrieval of |
| 20131007 | bostonscantosiddonworld. Otherwise, it returned fixed |
| | DicomToSiddon transform which is not true at all. |
| | |

20131014 Corrected wrong array selection in PatientSetupSequence in StoreBeamPropertiesInCache.

CQCACHE.CPP (inactive part of conquest interface DLL):

| 20000710 | Added CacheInitFromSelectionStrings |
|----------|---|
| 20000808 | Fix in comparison of selection with cache |
| 20000824 | Added ReferencedStruct to cache (used for beams) |
| 20000829 | Also store 'image' in cache |
| 20010717 | Some work on RTDose objects |
| 20020418 | Added cache-ing of properties |
| 20040616 | In CacheInit (Called from PatientTree), keep the cache if the |
| 200.0010 | tree is from the same patient |
| 20050203 | Added CacheCleanupRtObjectFiles. This is done just before a |
| | PatientTree of a different patient than last patient is being |
| | constructed |
| 20050906 | Added 'CacheGetReferencedProperties()' |
| 20050919 | Increased MAX SEL CACHE from 200 to 2000 |
| 20061109 | Increased MAX_SEL_CACHE from 2000 to 10000 |
| 20080318 | RTPLAN properties are now cached too |
| 20091028 | Adapted for 64-bits version |
| 20110207 | CacheInit() was not prepared for 'marker'. This caused the |
| | message 'cannot find related scan' when there are no |
| | delineations present. |
| 20130125 | ea+lsp Added FreeCache() |
| 20130429 | Removed unused variables from FreeCache() |
| 20130625 | Added missing lower-vase conversion {strlwr(szSOP)} in |
| | CacheCleanupRtObjectFiles(char* pszPatientID) |
| 20130712 | Fixed the memory leak while freeing the previous cache in |
| | CacheInit() |
| 20130812 | Updated Caching in CqDicom and added |
| | CacheGetReferencedScanUrlForBeam |
| | |

CQPRINT.CPP (part of conquest interface DLL):

| 20020814 | Added exported functions 'DcmPrintScan' and 'DcmPrintFile'; Altered 'PDU.AttachRTC' in 'PrintGrayScaleImages'; Tested |
|----------|---|
| | with OFFIS and Mallinckrodt |
| 20020816 | Padded uneven string VR's with space |
| | Support of byte images. (RGB does not work yet) |
| 20020823 | DcmPrintFile accepts multiple filenames (separated by ;) and |
| | decompresses NKI data |
| 20020825 | Added DllProgress calls during print (used by server to ensure |
| | printing without loosing socket data) |
| 20051217 | Use nicer method to replace compressed by uncompressed data |
| 20080313 | Removed some warnings |
| 20080818 | Made to compile with MS7 |
| 20091028 | Adapted for 64-bits version |
| 20130620 | Improved error handling for all exported functions |
| | 1 |

CQINI.CPP (inactive part of conquest interface DLL):

| 20020814 | Added exported functions 'DcmPrintScan' and 'DcmPrintFile'; |
|----------|---|
| 20081002 | Created |

| 20081014 | Fixed parsing of backslashes in KeyValueToVR |
|----------|---|
| 20081015 | Fixed translating hex values in KeyValueToVR |
| 20081029 | When the data of a VR exceeds MAX_DATA_LENGTH, then |
| | a '*' is appended to the Key in DcmReadIniObject() |
| | The '*' is ignored (stripped) in DcmWriteIniObject() |
| 20081106 | In DcmSetField() and DcmSetString(), also accept a new VR. |
| | For now, this is only implemented when the VR is not inside a |
| | sequence. |
| 20081111 | Fixed errorhandling in above functions |
| 20090602 | Added DcmPlanIniToPrescription. |
| 20100218 | Two fixes in GetVRFromDDO. DcmGetString and |
| | DcmSetString crashed when parameter pszKey is sequence |
| | item AND a literal string passed from Delphi. When the |
| | sequence item is out of range, now DCM_E_MISSING_VR is |
| | returned instead of DCM_E_INVALID_VR. |
| 20100701 | Recoded DcmSetString() |
| 20100810 | Recoded DcmSetField() |
| 20110126 | Made FieldToDicomObject() public |
| 20110316 | Set gl_szValue[0]=0 before calling PrintData from DumpLevel |
| | to prevent 64 bits problems |
| 20110711 | Improved error-handling of DcmWriteIniObject() |
| 20110920 | Added DcmSetIni (comparable to multiple calls of |
| | DcmSetString) |
| 20120629 | Made LoadTypedDicomFile() more efficient |
| 20120913 | In KeyValueToVR, fixed type of keys that were not passed by |
| | name, but by '(gggg,eeee)' |
| 20130418 | Support float and double type in PrintData() |
| 20130424 | Also convert "Unknown" and "?" into "(gggg,eeee)" to match |
| | with |
| | behavior of ProcessHeader() in CqDicom.cxx, addressed |
| | CppCheck issues (1 leak and incorrect return value of |
| | DcmGetField()) |
| 20130620 | Improved error handling for all exported functions |
| | |

SQLITE3.C

20120611 version 3.7.13

CQJPEG8.CPP (inactive part of conquest interface DLL and dgate.exe): CQJPEG12.CPP CQJPEG16.CPP

| 20020301 | Created |
|----------|--|
| 20030415 | Better exception handling |
| 20030417 | Support for multi-frame images |
| 20041221 | Changed include files |
| 20050215 | Fixed for fragmented frames in a sequence |
| 20050901 | Renamed errorcodes.h to errcodes.h |
| 20070112 | Return Width, Height and BitDepth of the image |
| 20071001 | Output of JPEG error messages to OperatorConsole in server |
| 20080819 | Suppress large amounts of jpeg errors; added \n |
| 20081116 | Adapt for very large objects (use unsigned int lenght) |

CQJPEG.CPP (part of conquest interface DLL):

| - | 1 , |
|----------|---|
| 20030123 | Created |
| 20030128 | Start work on RLE decompression |
| 20030415 | Fix in determining RLE decompressed size\ |
| 20080313 | Removed some warnings |

DICOMP.CXX (sample print program)

| 20020816 | Fix in (unfinished) main server code |
|----------|--|
| 20020822 | Made this sample program part of code base |
| 20080113 | Fixed for MS7 compiler |
| 20100120 | Fixed for MS8 compiler |

TEST.CXX (sample client program)

| IESI.CAA (| sample thent program) |
|------------|---|
| 19980322: | played around; added comments in query client |
| 19980322: | Added command line interface for c-find |
| 19980323: | Added command line interface for c-move |
| 20000318: | Added optional NKI command vr's to echoclient |
| 20020315: | Started on -fe: forwarding server; implemented echo, working on move and find |
| 20020316: | Added cstoreclient -t; load dd.txt as dicom dictionary; -fd=diagnostic mode (logs) Added IARQ; note: cast of PDU to dump() seems to crash sometimes. Forwarder works between QUIRT/conquest apps and conquest dicom server. |
| 20020317: | Made forwarder more general; works between EFilm and Conquest |
| 20020811: | Fixed forwarder such that it works for dicom-print Fix: Forwarder did not worked with OFFIS because OFFIS checks message command/data pdv bit 6[1] that is was not set correctly by forwarder (command/data object) |
| 20020822: | Made this sample program part of code base |
| 20030630: | Fixed crash in cast of Dump(PDU) (c.f. 20020316) Fixed passing of cmds to Find and Move |
| | Fixed continuous CechoServer |
| 20020721 | Removed calls to obsolete PDU.Write() |
| 20030721: | Fixed SetStringVR (pad uneven strings with a space) C-Find and C-Move wildcards "*" seem not to be valid |
| 20040711: | Fixed forwarder: status=0xff00 loops responses; status==0 keeps association open |
| 20040712: | Added auto-returner to forwarder - functions with NKI viewers (assumes viewerAE of X%ip or XX%ip). |
| | You need to set AE and port of return forwarder in your PACS though; see gatewayname, gatewayport, returndump and viewerport for configuration |
| 20040713: | Attempt to make it multithreaded; however return connection only starts once (supports single client only!) |
| 20040713: | Split into modes -fp: for printer; -fb: forwards and returns; -fe normal forward; -ff fixing forwards |
| 20051217: | Use new ReAlloc method to replace data in VR |
| 20060618: | Allow (and disabled) looping of c-move to test repeated c-move problem in read-ahead thread |
| | |

20061127: Allow (and disabled) looping alternating c-move and c-find to

test server

20070902: Fixed for ms7 and ms8

20090411: mode -fp adds more transfer syntaxes uid2..uid8 (experimental)

DGATESERV.DPR (part of dgateserv.exe)

20000316 Created

20000326 Close handle on terminate

Dgate runs via new SlaveProcess mechanism of Uservice

USERVICE.PAS (part of dgateserv.exe)

| 19990316 | Fixed English of some messages |
|----------|--|
| | Added account and password as optional parameters for install |
| 19990325 | Added option to start/stop/install/uninstall on remote machine |
| | Works fine with start / stop / uninstall |
| | Remote install works except for wrong exe path |
| | Therefore added ExeName property and command line switch |
| 19990326 | Added service option: makes it a generic installer! |
| | Made ServiceName and ServiceDisplayName read/write |
| | Added AllowSlaveProcess: command line can set slave process |
| | Added SlaveProcess and SlaveProcessArgs: executable to start |
| | Fixed arguments passing when /start is followed by more / |
| | Fixed ServiceName: is read as first arg in DoCmdLineStart |
| | Note: SlaveProcess is killed when service stops |
| 20100827 | WaitforStop also tests the SlaveProcess: service stops when |
| | slave crashes; Version in help text: now V1.1 |
| 20100901 | Avoid RaiseLastWin32Error for common errors: it now shows |
| | a crash window |
| 20101111 | Avoid RaiseLastWin32Error for failure to start, use |
| | ShowMessage |
| 20101113 | Fix for vista - stop does not reach service |
| 20101116 | Stop before uninstall fixes uninstall for vista |

SERVERDRIVER.PAS (part of conquestdicomserver.exe)

| 19980405 | Created |
|----------|--|
| 19980407 | Added dgatesop.lst file creation; max AE to 16 chars |
| 19980407 | Sorted image list on SOPINSTANC to get correct order |
| 19980412 | Added DuplicateHandle code; but still deadlocks |
| 19980413 | Threaded mode avoids TCP/IP component (seems to fix |
| | deadlock) |
| 19980414 | Restart after switching server mode does not always work; |
| | Fix application to threaded mode for now. |
| | Added compression configuration. |
| 19980415 | Some fixes for the first installation code |
| 19980505 | Made length of directory field in MAGDEVIC 250 chars |
| 19980608 | Replaced TQuirtViewer with TImage => no need to load |
| | ntpars.dll |
| 19980614 | Merged code with use FPiette tcp components |
| 19980616 | All OK with new fpiette code; actually I had to fix my own bug |
| 19980617 | Save as bitmap and dump header in popup menu |
| 19980618 | Query and Move options for CQDICOM.DLL |

| 19980619 | Added header lister; default MagDeviceThreshHold to 10 MB |
|---|--|
| 19980620 | MagDeviceThreshHold is now configurable |
| 19980621 | Renamed table to MagDevice; use full table names |
| 19900021 | Nicely coded DBF/Access choice; but fixed to DBF |
| | Delete patient and refresh database menu options |
| 19980622 | Double click query memo to make new query |
| 19900022 | Show on bitmap: patient is being deleted/file not found |
| 19980623 | Save bookmarks of tables; move to next record after delete |
| 19980624 | DICOM.SQL: StudyNumber (StudyID in DICOM) is now 64 |
| -,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | long (Microsoft SQL server does not allow truncation) |
| | Update bitmap after loading for fast display |
| | Text strings in UDP input to 1024 (for long SQL errors) |
| | Default password and user name to 'conquest' |
| | PAGETIMEOUT to 600 for better database performance |
| | Made DataSource name more or less configurable |
| | Made all port numbers more or less configurable |
| | Installing a second server on one PC while one server is |
| | running works |
| 19980702 | Added KBUSED field in MAGDEVICE table |
| 19980703 | Some changes in static texts and hints |
| 19980704 | Found a handle leak in RunDgate; not fixed yet |
| 19980708 | Make anonymous; show progress for move |
| 19980710 | Added experimental archive option; fix stopcopying option |
| 19980711 | Fix double click query on empty form; use tray icon |
| 19980713 | Add Name of server in tooltip of tray icon; fix DiskFree |
| 19980717 | Fix crash if directory does not exist |
| 19980721 | Clicking tray icon restores window |
| 19981219 | Improved error handling display; |
| 19981220 | List header of undisplayable object in static |
| 10001221 | Read and save FileNameSyntax; default=3 |
| 19981221 | Supress display of large files (>1 MB) |
| 19981222 | Use FieldByName, added combobox selectors |
| | Disable study navigator if only 1 available Mayad modelity from the study to the series level |
| 19981229 | Moved modality from the study to the series level Changed order of TableN.close to avoid side effects |
| 19901229 | Fixed MAGDEVICE creation under SQL server |
| 17770104 | (KBused optional) |
| 19990109 | Made ImageNumber 10 bytes wide (for GE AdvantageWin) |
| 19990110 | Combobox 1 is now patient filter and or selector |
| 17770110 | Added access to cache and jukebox in browser but |
| | with limited support: up to 10 devices (one character) |
| | Added archiving page; fixed most handle leaks |
| 19990112 | Finished first archiving page; -hide command line option |
| | Added clear database and regen single device buttons |
| | Clear combobox for each page select |
| | NOTES: Archive page is configured by editing |
| | Restore original configuration or restart to load it |
| | Archiving allows up to 10 Jukeboxes, but only the |
| | selected one is used for writing. Only the drive |
| | with MAG0 is checked for disk space for automatic |
| | archiving. Only device CACHE0 is passed correctly |
| | to the burn program. This means: stick to 1 MAG |
| 400 | device and 1 CACHE device for now. |
| 19990113 | Speeded archiving by selecting MAG0 if there is only 1 |

| | Renamed entry to BurnThresholdMB, made BurnProgramList Note: to do - keep log file of archiving operations. |
|----------|---|
| | - add RT objects to default sop file. |
| 19990114 | Added date and time formats for burnprograms |
| 19990115 | label format burnprograms; no write empty ini |
| 10000215 | Sync magdevice0 with DataDir; %% and %p formats |
| 19990315 | Added EchoNumber in image table - used to separate PD,T2 |
| | Completed dgatesop.lst with Philips, GE, RT Added NumberOfFrames in image table - to find multiframe |
| | objects |
| 19990413 | truncate QUERY request depending of level |
| 19990510 | Allow AEs starting with a digit (Siemens MRI) |
| 19990527 | Revision 3 of database layout (birthday, sex, bolus) |
| 19990902 | Added load/store of mirror devices and export converters |
| 19990905 | Switched word wrap off for memo's |
| 1999090 | Added DcmMoveFilesHere on right click of copy; but seems to |
| | crash; Problem: if we pass DcmMoveFilesHere servers |
| | AE/PORT saving slices from own server will fail. Now pass |
| | 'test;1234' |
| 20000127 | Hide archiving tabsheet in new install; Add NKI sops to install; |
| 20000128 | Added extra GE sop; compressmode 2; disabled movefileshere |
| 20000316 | version 1.3.5: Integrates dgate as service operation |
| | New install does not start dgate right away |
| 20000317 | Truncate patient list if too long |
| 20000318 | '\$ RESTART' as console message kills and restarts server |
| 20000222 | '& DGATE xx' as console message runs dgate with args xx |
| 20000323 | Added query sop choices through level dropdown list |
| 20000326 | Service supported for more than one server: |
| | servicename=AE; port passed as /process dgate.exe -!port |
| | Removed need to enter password for SQL access Save and restore user and password in dicom.ini |
| | Added 'ping' option for remote check of archiving: |
| | Deletes ConquestDICOMServer.Ping and makes |
| | ConquestDICOMServer.response with archive status |
| | Allow up to four servers at the same time, also as services |
| | Note: only the first server will start correctly on boot! |
| | (on boot, the /process parameter is not passed and the |
| | default IP message port will be used -!1111); Presence of file |
| | USESQLSERVER allows install on SQL server |
| | Presence of file USEMSACCESS allows install using access db |
| 20000328 | Added tests of local server at key moments |
| | added -noconfirmquit option; show VERSION in caption |
| 20000402 | Install service with startup at right socket |
| | Read service socket from registry on startup |
| 20000403 | Improved socket handling; fixed space in path when not |
| | service; space in path blocks service install. |
| | Now recognizes installed but not running service Number of servers on one PC is now unlimited. |
| 20000417 | Fixed MSACCESS ODBC creation |
| 20000417 | ExportModalityx should be UPPER-case |
| 20000501 | Added "force display of large image", "remove image from |
| 2000000 | database", "run external viewer" and demoviewer option |
| | Removed '.' as workdir from runprogram etc (allow bat files ?) |
| | Added democopy option: copy incoming to dir + CallingAE.v2 |
| | 1, 1 1, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, |

| 20000529 | Merged two changes |
|----------------------|---|
| 20000529 | Release to 1.3.6 |
| 20000616 | Attemp to create NewInstallForm database selector |
| 20000625 | Added NewInstallForm database selector; default to |
| | MSACCESS |
| | Added Send To menu items in popupmenu |
| | Removed '*' items from Dicom system selectors |
| | Added Send Selected Images for more flexibility |
| | Added animated display menu options |
| 20000626 | Added Send Selected Images selector window |
| 20000701 | Some adaptations of Send Selected Images; |
| | MaxFileNameLength |
| •••• | TrimRight strings in query - trailing spaces depend on db |
| 20000707 | Added Edit Database by Hand menu option |
| 20000808 | Added ,0 code in timed archiving |
| 20000915 | Added ListenSocket.Addr (0,0,0,0) in multi-app mode |
| 20001107 | Added CheckBoxViewIncoming for demo display of |
| 20001100 | incoming images |
| 20001108 | Display originating server on incoming image; |
| 20001129 | Disable menus when the ViewIncoming option is selected Added fix so that DICOM.INI may contain UNC path |
| 20001129 | Added menu choice to change ID of selected series |
| | Version to 1.3.7 |
| 20010312 | Trimmed remote IP so that hostnames can be resolved in |
| 20010312 | CqDicom.dll |
| 20010318 | Trim servername and ip; |
| 20010210 | alt-rightclick the service buttons installs service 4 times |
| | e.g., at ports 5678, 5679, 5680 and 5681 (all with same data) |
| | This may be used for efficiency and to limit the effect of |
| | crashes; Version to 1.3.8 |
| 20010327 | Always pass curdir to runprogramxxx and startprogram - |
| | required because directoryview changes current directory! |
| 20010328 | Uppercase account for service; colors for archive status |
| | Added verify mirror disk button; burn only once per time |
| | Show date and time for archival steps; added KeepAlive |
| | Added MirrorVerifyTime (verifies whole MAG0) |
| | Added conquestdicomserver.log with major messages |
| 20010405 | Added comma-separated list option for patid in query page |
| 20010406 | Ctrl-dblclick adds patid to comma-separated list |
| 20010406 | All status memo's are now limited in length and save to |
| | separate log files |
| 20010400 | Added (and disabled) simple zip code for log files per day |
| 20010409 20010409 | Do not log query page Added Tone beskup page: replace few GetCurrentDir by |
| 20010409 | Added Tape backup page; replace few GetCurrentDir by CurDir |
| 20010410 | Added timeouts (10s and 5 hours) to tape backup |
| 20010410 | Separate tape backup button - some fixes |
| 20010412 | Improved anonymize and change patient ID using new dgate –f |
| 20010110 | options; Added drag and drop interface to add files to server |
| 20010418 | Changed description of forced backup set; refuse dropped |
| | directories; Version to 1.3.9 |
| 20010418 | Update maintenance memo during drag and drop |
| 20010418 | Fix: timer4 was enabled if no KeepAlive specified in dicom.ini |
| - | Hide tape backup page in new installation |
| | 1 11 0 |

| | Added default install button in firstinstall |
|----------------------|--|
| 20010419 | Added anonymize and change patient ID for study |
| 20010502 | Added DeleteThisStudy/Series |
| 20010830 | revision 4 of database definition (extended) |
| | Added ExportStationName in dicom.ini |
| | Updated dgatesop.lst to conform to DICOM 1999 final text Version to 1.3.10 |
| 20010903 | Suggest .\username as account |
| 20010904 | Fix: Query was freed twice when a DicomMove failed |
| 20011108 | Added automatic zipping of log files |
| | Make sure that tape backup and archive pages are not shown |
| | Added save/restore of ExportFilter settings |
| 20011109 | Small fixes: |
| | do not write empty configuration strings (empty<>default) |
| | keep some settings with original case (see sorg) |
| | use StrToIntDef to avoid exceptions on invalid settings |
| 20011127 | Added ZipTime as configurable |
| 20011127 | Added SeriesPat and ImagePat fields to DICOM.SQL |
| | Surpress fail message box when using SQL server Version to 1.3.11 |
| 20020402 | Adapted controls.pas: exception handling in |
| 20020402 | finddragtarget and findvelwindow |
| 20020409 | DB rev 6: added frame of reference UID to series |
| 20020416 | Store/save UIDPrefix for in dicom.ini |
| | When creating dicom.ini, create unique UIDPrefix: |
| | '1.2.826.0.1.3680043.2.135.Date.Time |
| | Added configurable TestReadTime: regular check of MAG0 |
| 20020417 | Fix: QueryResult has not necessarily 64 char |
| 20020422 | Renamed some data structures |
| 20020422 | Do not save empty UIDPrefix; fix change patid for study |
| 20020424 20020426 | Added simple weekly checks page; mail ALL failures Fix in mail sender list; use first e-mail as 'to' address |
| 20020428 | All recipients show in to: header |
| 20020420 | Only serious error messages have *** in string |
| | Added MailCollectTime and MailWaitTime |
| | Avoid starting check more than once |
| 20020510 | Added CheckDicomSubmits (send mail when users forgot to |
| | send images to the PACS) |
| 20020513 | Checks: empty time runs all day; added log header/footer |
| | Updated CONTROLS.PAS: more exception handling |
| | Fixed reading of weeklychecks; display CD num in header |
| 20020515 | Fix warnings and patient ID checks in CheckDicomSubmits |
| 20020515 | Added ImageType to database (rev 7) |
| | Added find missing patients button; allow more than one weekly check time (; separated, not |
| | adjacent) |
| 20020515 | Fix missing pats when query empty |
| 20020212 | Added grab options to weekly checks |
| 20020517 | Changed StudyModality to 64 chars (e.g., fits: |
| 20020510 | $CT\MR\PT\XA\ST\MG\MS\RTIMAGE\RTDOSE\RTSTRUCT\RTPLAN\RTRECORD)$ |
| 20020518 | Fix in weeklychecks tag: too many with tag 0 |
| 20020519 | Fix in rev 7 db definition: AcqDate is now SQL_C_DATE Added FixPhilips in DICOM.INI |
| 20020520 | Use DGATE.EXE for grabbing |
| 20020320 | OSC DOMILLAND for graduling |

| 20020522 | Fix reading of entries with an '=' in e.g., dicom.ini |
|----------|---|
| 20020524 | Fix acrnema.map problem with new install |
| 20020529 | Fixed duplicate mailing of messages, added WriteMemo |
| | Added archive.log; extra parameter for regen for DBASEII |
| | Removed MessageBoxes |
| 20020609 | Read and write FileCompressMode, default remains 2 |
| 20020613 | Added alt-drop code: enter with new patient ID |
| 20020819 | Basic printer support; view incoming shows printer data |
| 20020819 | Process messages as files are dropped |
| 2002001) | Print incoming imageboxes on default printer |
| 20020821 | Printer accepts landscape and portrait any pictures per page |
| 20020621 | Progressbar shows printer queue activity |
| | |
| | Note: printer queue is single user (but may be fixed, using |
| 20020022 | film#)! |
| 20020823 | Added print options in browser - print to local dicom server |
| 20020825 | Headerlister is modeless - added CTRL-A, CTRL-C, CTRL-F, |
| | CTRL-S, F1, F3 end ESC |
| | Printer has progress hook - required to avoid socket data loss |
| | Selection of print page format; edited info text |
| | Added all 1.3.11 fields to edit database by hand |
| 20021015 | Start deleting patient started delete "=ALL when no patient in |
| | list!!!!! |
| | Protect all pop-up functions for no selection |
| 20021016 | Better support for copying large #patients, even if one or more |
| | missing |
| | Added denormalized database option (for DBF without ODBC) |
| | Removed obsolete magdevice button |
| 20021017 | Added "" around dropped filenames; use filter instead |
| | of master-detail (requires index) for built-in dbf support |
| | Version to 1.4.0; added dropping of directories |
| | Added UID counter passed to dgate to avoid UID problems |
| 20021018 | Fixed browser fail and missing dbase dir after non-odbc install |
| | Limit dbase list in browser (alternative to image) to 100 lines |
| 20021020 | Added Kill and Restart the Server weekly check (packs |
| | built-in dbf); Fix reading of database name if not default |
| 20021021 | Small fix in maintenance memo for very long strings |
| 20021028 | Also denormalized series database; default de-normalize study |
| | (rev 8); Show denormalized study entries in database editor |
| 20021029 | Fixed query keys transmittal (sent sop when not needed) |
| 20021213 | Added EnableReadAheadThread as configurable parameter |
| | Disabled GECTStorage amd GEMRStorage in dgatesop.lst |
| 20030113 | Version to 1.4.1; Fixed keepalive option (was never enabled) |
| | Added PatientQuerySortOrder and such |
| 20030128 | Fix update of headerlister when no image shown |
| | Make DBF table links case insensitive |
| 20030319 | Fix: ImageDB entry 'ReceivingCoil' is 16 bytes (not 12) |
| 20030324 | Start on 1.4.2: db rev 10: made ReceivingCoil 16 wide |
| 20030402 | Merged above two changes |
| 20030409 | Handle DicomPrint error; several path fixes in tape-handling |
| 20030613 | Catch WM_QUERYENDSESSION: shutdown disables close |
| | dialog |
| 20030628 | Fix that more than one dropped directory will be loaded |
| 20030706 | Prepare for release 1.4.2; new dicom.ini; kill server |
| _0000700 | Compression column in acrnema.map |
| | compression constant in actional map |
| | |

| 20030707 | Added manufacturer to denormalized db (rev 11) Write registry key HKEY_LOCAL_MACHINE\SOFTWARE\NKI AVL\Conquest\Dicomserver\SERVERNAME with values: directory=path without trailing backslash and |
|----------|--|
| | laststarted=yyyymmdd. For use by Dicom-works only. |
| | Note: servername changes are updated on GUI startup only. |
| 20030708 | Made JPEG compression configurable (affects dgatesop.lst) |
| 20030708 | Write version into registry |
| | |
| 20030710 | Install service as system account (no user required) |
| | Fix attempt to mail when not wanted |
| 20020717 | release 1.4.2 |
| 20030717 | Fix problems when registry access fails |
| 20030809 | Will automatically use ADO or MDBF when BDE not installed |
| | Set version to 1.4.3 |
| 20030810 | Log used DB engine; Added partial ID matching for MDBF |
| | Default enable uncompressed button before install |
| | Force user to push 'Save config button' |
| | Added some text to install and maintenance pages |
| | Do not display images when on jukebox (use force display) |
| 20030819 | Made max drop filename length longer (256->1024) |
| 20030905 | Date of zip file is one day before if zip before 8 in the morning |
| | Hide external viewer menu directly after install |
| | Optional configuration of SendUpperCaseAE added |
| | Removed obsolete flush button |
| | Do not allow install in directory with spaces in its name |
| | Removed faulty extra text from install page |
| 20030907 | Fix ODBC generation for directory with spaces |
| | Just warn against directory with spaces |
| 20030909 | Test write access to log files prior to startup |
| 20030920 | Mail messages that contain 'fail' instead of 'failed' |
| | Added tape full warning (that will be mailed) |
| | Added enables for timed archival (to allow retry/timer disable) |
| | Changed order of burn CD message / tape backup |
| | Added NextSlotToUse (slot n) next to NextCDToBurn |
| | (JUKEBOX0.n); % in burn parameters %n = NextSlotToUse, |
| | %c = NextCDToBurn; Manual archive buttons control |
| | checkboxes as well |
| 20030921 | CTRL-Double click "automatic archival label" starts archival |
| | CTRL-Double click "weekly checks time" starts check |
| | Added NightlyCleanThreshhold parameter (clean # MB at |
| | 01:00) |
| 20040401 | Added ImageID to database; version to 1.4.4 |
| 20010101 | Show ImageID in database editor and browser |
| 20040402 | Allow anonymize etc on MAG0MAG9; |
| 20010102 | changed datasource name (now system DSN) |
| 20040425 | Added DoubleBackSlashToDB to dicom.ini |
| 20040426 | Version to 1.4.4a |
| 20040420 | Use built-in servertask commands for maintenance and browser |
| 20040528 | Browser for built-in DBASEIII driver uses extract server |
| 20070330 | command; Database editor to read only for built-in DBASEIII |
| | driver; These changes allow efficient use of in-memory index |
| | for dbaseIII; OK for 10 ⁷ images when patientID, studyUID or |
| | |
| | seriesUID passed in Queries; Added PackDBF and IndexDBF |

| 20040601 | to dicom.ini; Reworded some in popup menu; wait for patient deletion to finish; Fix refresh for sql server Added LongQueryDBF flag |
|----------|--|
| 20040605 | Fix extract when no patients; kill server stops loop of server tasks; start server on activate (after windows shows) Pack the Database as Weekly Check Action |
| 20040606 | Fix in formactivate; display @ startup |
| 20040610 | use servertask to clear index and rebuild it in built-in dbase mode |
| 20040614 | small fix in keep server alive; added nightlymove option |
| 20040615 | small fix in nightlymove option; also reindex after regen device |
| 20040713 | Added FixKodak; version to 1.4.6 |
| 20040722 | Installation defaults for FixPhilips and FixKodak are now 0 |
| 20040804 | Added *.lst to zipped log files; added bug report option Version to 1.4.7 |
| 20041029 | Added merge and split series options; |
| | Process messages during long GUI actions if possible (no DB) |
| 20041030 | Modified GUI of merge and split, process messages |
| 20041101 | Check for MAG storage for split/merge |
| | Delete from DB does not use image (for orphaned DB) |
| | USEDBASEIIIWITHOUTODBC replaced by Pos('\', |
| | Datasource)>0 while running |
| 20041102 | Added nj compression mode |
| 20041108 | Added warning when alt-dropping file(s) with \$ as Patid |
| | (debug) |
| 20041128 | Fixed wording of delete messages: works on all mag devices Fixed problem in DeleteThisSeries, Anonymize, and change |
| 20041120 | Patient ID: last series could not be modified/deleted |
| 20041129 | Made font size of server status window selectable; Made debug |
| | log switchable; service will continue to log to file even if |
| | user interface is closed (but with different date/time layout) |
| | Now can save and use acrnema.map without server restart |
| 20041201 | Fix startup problem when disk 'c' not available |
| 20041201 | Backup fail 15 files temp logged as ALMOST OK -> continues |
| 20050106 | Fixed install as four services, fixed nightlymove amount |
| | Is now nightlymovethreshhold - free space: i.e., |
| | attempts to make nightlymovethreshhold MB free space |
| | Fixed nightlymove: forgot to pass ',0' for MAG0 |
| | Also, try move even if select failed to avoid stall |
| 20050100 | after partial failed select |
| 20050109 | Made backup of and warn when dicom.sql is overwritten Added TCPIPTimeOut, FailHoldOff, RetryDelay, QueueSize Version to 1.4.8 |
| 20050114 | On startup ask to delete ExportFailures*, CopyFailures* |
| 20050414 | Added BurnTime2 (2 dvds per day) and BurnWeekend (all |
| 20030422 | weekend through) |
| 20050429 | db rev 14: added worklist support |
| 20050429 | recurse directories when dropping files to ease load dicom CD |
| 20050829 | Added find modality worklist to dgatesop.lst |
| 20050831 | Added clear worklist button, version to 1.4.9, WorkListMode |
| 20050901 | Modality worklist query, auto append worklist to dicom.sql |
| 20050905 | Avoid dicom.sql message in new install, v* and s* in |
| 20030707 | acrnema.map |
| | aomonia.map |

| 20050912 | Small changes to dicom.ini, dicom.sql, dgatesop.lst; added |
|----------------------|---|
| | SQLHost. Small change to mdbf: extra refresh avoids browser |
| 20051024 | failures |
| 20051024 20051230 | Version to 1.4.9a: recompiled with patched controls.pas Version to 1.4.10 |
| 20031230 | Moved clear worklist button and add pack database button |
| | Added warning when worklist is added to dicom.sql: clear |
| | worklist required |
| | Added settings: DebugLevel, CacheVirtualData, |
| | LargeFileSizeKB, VirtualServerFor# |
| | enable study controls prior to return if same (none) image |
| | shown |
| 20060102 | Update of hints |
| 20060103 | 1.4.10 Release |
| 20060201 | Added K-Pacs/EZDICOM based viewer |
| 20060312 | Keep case of VirtualServerFor; Message buffers from 1024 to |
| 20060214 | 8192; Open k-pacs viewer on correct series; version to 1.4.11 |
| 20060314 | Added experimental native Mysql access; installs when libmysql.dll is found - uses mysql version 4.1.14 |
| 20060315 | Keep case of FileNameSyntax |
| 20060313 | Updated hints and file version for release 1.4.11 |
| 20060618 | Set default user for mySQL to root (thanks Chris Muller) |
| 20000010 | Seems to then also work with mySQL 5.0.22, version to 1.4.12 |
| 20060707 | Bug reported by Paolo Marchesi: save config loses DBF |
| | Now only set to default when previous does not exist |
| | Use same zipmaster as in previous versions (zipmaster\org) |
| 20061101 | Added SeriesDescription to query page |
| 20061129 | Added control for debuglevel, and allow queries on UID |
| 20061120 | Double click queries labels to change mode |
| 20061130 | Added new dgate parameters; consolidated debuglevel control |
| | and param; Made application forms resizable and set size constraints; Small font control works on all status pages; |
| | Double click image to force display it |
| 20061220 | Pass Tempfile to kpacs viewer form |
| 20070123 | Added processfilter to allow browsing of patients with 'in |
| | patientid |
| 20070126 | Importconverters stuff and ForwardAssociationRelease in |
| | dicom.ini; Version to 1.4.12b |
| 20070201 | Version to 1.4.12c |
| 20070204 | Fix in generation of UIDPrefix: was not automatically |
| 20070206 | generated on startup |
| 20070206 20070207 | ODBC buttons will also create database for SQL server |
| 20070207 | ODBC button creates database for native mysql Native MYSQL did not create indices during install |
| 20070211 | Fixed selection of DBF (with odbc) |
| 20070221 | Started to SQLite (not yet fully functional) |
| 20070305 | Version to 1.4.13alpha |
| 20070316 | Use in patid instead of , in drag and drop to allow dropping |
| | files with a, in them while changing patientif (not backwards |
| | compatible) |
| 20070415 | Back to , in patid in drag and drop: ljz fixed it in dgate.exe |
| •00-05- | Added Prefetcher flag in dicom.ini (default 0) |
| 20070520 | Fixed missing completed message in regen single device |
| 20070705 | Added BrowseThroughDBF: unified browser used for SqLite |

| 2007070 | Works for other datasources but not configured as such Small fixes in completed message in several regen functions Fixed view/edit database second time round (enable) |
|----------------------|--|
| 20070706 | Auto create mysql registry settings for native mysql Disallow anonymize and change to empty name Message on end of odbc or db creation |
| | Version to 1.4.13beta |
| 20070708 | Patched forms.pas for Chad Moser's crash problem. |
| | Added BrowseThroughDBF setting in dicom.ini |
| | Default 1 for SqLite, 0 for others |
| | Use extract: also for dbaseIII: to avoid multi-user problems |
| | when browsing and writing at same time |
| 20070709 | Small fix in dbf+bde browsing |
| | Auto register webserver\ActiveFormProj1.ocx if found |
| | Do not use extract: for dbaseIII: browser does not work |
| | while indexing |
| 20071030 | Also delete DelayedFetchForwardFailures* on startup |
| 20071103 | Added LRUSort, AllowTruncate, ForwardCollectDelay, |
| | MaximumExportRetries, |
| | MaximumDelayedFetchForwardRetries MaximumDelayedFetchForwardRetries |
| 20071104 | Version to 1.4.13 |
| 20071104 | Added DecompressNon16BitsJpeg, UseBuiltInDecompressor |
| | Made IncomingCompression editable (double click label) |
| | Made FileNameSyntax editable (double click label) and |
| 20071114 | allow choice of V2 and DCM through radiobuttons Save root password while installing for mysql with password |
| 20071114 | Disabled multi-process mode in RunInThreadedModeClick to |
| 200/1113 | allow multiple saves of ini file during install (for above |
| | password) |
| 20071115 | Save password and username for SQL server install as well |
| 20071116 | Longer default password for sql server 2005 |
| 20080124 | Added mailer settings in dicom.ini |
| | Disable LittleEndianExplicit on install |
| | Added configuration for mode UJ |
| | Database revision 16: Moved Stationname and |
| | InstitutionalDepartmentName to series table |
| | Added extra warning when revision 16 not detected |
| | moved Stationname and InstitutionalDepartmentName in view/ |
| | edit database |
| | Version to 1.4.13a |
| 20080126 | Automatic add backslash to read MAGDEVICEs etc and give a |
| | warning message |
| 20080322 | Version to 1.4.14beta |
| 20080322 | Fix first install bug in test dicom.sql; fix send image crash |
| | in UID mode; display selected UIDs in query/move page |
| | added PadAEWithZeros and IgnoreOutOfMemoryErrors |
| 20080818 | Database revision 17: extended size of EchoNumber and |
| | ReqProcDescription to 64; EchoNumber, StudyModality and |
| | ImageType are DT_MSTR: multiple values; use Institution |
| | (8,80) instead of InstitutionDepartmentname (8, 1040) |
| 20000010 | Added WorkListReturnsISO_IR_100 |
| 20080819 | Version to 1.4.14 Default ForwardAssociationRelease to 1 |
| 20080831 20080902 | mvh Added EnableComputedFields, default 0 |
| 2000070Z | mvn Added EnableComputed Telds, detault 0 |

| 20081104 | Fixed install as four NT services: trim IP port before convert to int; Fixed save of database name to dicom.ini for mysql install |
|----------|---|
| 20081121 | version to 1.4.14a Added Postgres support; attempt fix MySQL support |
| | Automatically choose the 64 bit dgate if possible |
| 20081123 | Retry server test for 4 sec after db install |
| 20090203 | Trim data read from dicom.ini to remove trailing spaces |
| 20090205 | Added MailPort option |
| 20090411 | version to 1.4.15alpha; Added PrintSquareLandscape, max |
| | converters to 19, VirtualPerSeries09, |
| | RetrieveResultConverter0, QueryConverter0, |
| | WorkListQueryConverter0, RetrieveConverter0 |
| | Let OCX registration fail without warning (for vista) |
| 20090927 | Added RetryForwardFailed |
| 20090927 | Optionally use 7za.exe instead of zipmaster (when zipdll.dll |
| | deleted); Added RetryForwardFailed |
| 20090928 | Default sql password to conquest1415; |
| 20090929 | Added ImportExportDragAndDrop flag (default 0) |
| 20090929 | Version to 1.4.15 |
| 20100202 | version to 1.4.16alpha; check other GUI running; jpeg2000 |
| | stuff; LossyQuality |
| 20100206 | use convert_to_bmp in browser to allow JPEG2000 |
| 20100207 | export servertask; added spinedit for frames; |
| | UseKpacsDecompression flag |
| 20100207 | version to 1.4.16alpha2; made it a const; removed warnings |
| | write zips to folder logs if exists; create logs folder on install |
| 20100227 | version to 1.4.16alpha3; added DICOM print to selected AE |
| 20100827 | version to 1.4.16beta; Fixed display of jpeg2000 config in GUI LargeFileSizeKB to 4096; note: jpeg2000 requires HAVE_J2K |
| | in cqdicom.dll; Fixed viewincoming; fixed enable NJ mode |
| | choice logic; fixed service detection to warn for existing but not |
| | running service |
| 20100828 | Automatically start installed but not running service when GUI |
| | comes up; Added QueryResultConverter and |
| | ModalityWorkListQueryResultConverter |
| 20100905 | Added UseBuiltInJPEG and IgnoreMagdevicethreshold flags |
| 20101003 | Added browsepatient command; show record counts in browser |
| | hints; Fixed frame number passed to BMP generator |
| | Improved query page text selection when brackets in text |
| 20101003 | Version to 1.4.16beta4 |
| 20101110 | Typo in reading UseBuiltInJPEG (save will always write 1) |
| 20101111 | Version to 1.4.16beta6; added tests to service control |
| | Issue: uninstall often fails (and leaves dgate.exe running) |
| 20101116 | Fixed uninstall in dgateserv, changed messages |
| | More checks in service code |
| 20101122 | Add option to log to file only with gui running |
| | Added export to zip file options |
| 20101123 | Default EnableComputedFields to 1, added OverlapVirtualGet, |
| | ArchiveConverter0, update acrnema.map header with ui, ul, ue |
| 20101212 | Right lock new checkbox; version to 1.4.16 |
| 20101212 | Disabled BigEndianExplicit for new; default file type to DCM |
| 20101212 | Removed nop export script |
| 20101213 | Enable delete even if no file found; |

| | stop zipping and cleanup (dgate will do it) if only log to file enabled |
|-----------|---|
| 20101213 | Fixed update of grid hints for totals: note count = unfiltered |
| 20101213 | Block spinedit for 1 frame image |
| 20101227 | Reset CheckBoxOnlyLogToFile when restarting server etc |
| 201101227 | version to 1.4.16rc1; default BrowseThroughDBF=1 for |
| 20110103 | SQLSERVER |
| 20110123 | version to 1.4.16rc3; other support for other sections in |
| 20110123 | dicom.ini |
| 20110326 | version to 1.4.16rc6; Also show incoming 'Rewritten' images |
| 20110329 | Version to 1.4.16; added MAGDeviceFullThreshHold |
| 20110331 | Added NoDICOMCheck; release date |
| 20120818 | Padd text queries with spaces not nulls; fix setting JL |
| | compression; Increases convert_to_bmp resolution for print |
| | jobs and bmp creation; Display some info in the query window |
| | on startup; delayed GUI test; Version to 1.4.17 |
| 20120826 | Accept server messages without \n; backup Failure files when |
| | deleting |
| 20120912 | Fixed tab order of all server tabsheets |
| 20121016 | Document J3NN JLNN in acrnema.map |
| 20121212 | 1.4.17beta |
| 20130517 | Fixed anonymizer; 1.4.17 |
| 20130517 | DoubleBackSlashToDB = 1 could happen when installing MS |
| | SQL server |
| 20130522 | Added WorkListTableName to dicom.ini |
| 20130523 | More anonymizer work |
| 20130813 | Choose .dcm extension radiobutton for lua file name syntax |
| | Added AllowEmptyPatientID to dicom.ini |
| | Added missing converters to dicom.ini code |
| 20130813 | Version to 1.4.17b, release date |
| | |

SERVERABOUT.PAS (part of conquestdicomserver.exe)

| Created |
|--|
| Added reference to Fpiette; use form also as file lister |
| Removed line about backdoor |
| Removed line about Mark Oskin going away |
| Release to 1.3.3 |
| Release to 1.3.4 |
| Release to 1.3.5 |
| Release to 1.3.6 |
| Release to 1.3.7 |
| Release to 1.3.8 |
| Release to 1.3.9; fixed dbaseIII text |
| Release to 1.3.10; |
| Release to 1.3.11; |
| Release to 1.3.12; |
| Made Lambert's e-mail address more prominent |
| Version to 1.4.0; added release date |
| Update release date |
| Update release date |
| Update release date |
| Version to 1.4.1; release date |
| new release date |
| |

| 20030303 | new release date |
|----------|---|
| 20030710 | Version to 1.4.2; release date |
| 20030809 | Version to 1.4.3 |
| 20030810 | Added reference to offis, zipmaster, and mitec |
| 20030922 | Release date |
| 20040402 | Version to 1.4.4 |
| 20040406 | Release date |
| 20040426 | Version to 1.4.4a; Release date |
| 20040615 | Version to 1.4.5; Release date |
| 20040722 | Version to 1.4.6; Release date |
| 20040805 | Version to 1.4.7; Release date |
| 20041129 | Release date |
| 20050106 | Version to 1.4.7a; Release date |
| 20050109 | Version to 1.4.8; Release date |
| 20050303 | Release date |
| 20050912 | Version to 1.4.9; Release date; worklist info |
| 20051024 | Version to 1.4.9a; Release date |
| 20060103 | Version to 1.4.10; Release date |
| 20060314 | Version to 1.4.11; Release date; new acknowledgements |
| 20060402 | Changed fpiette's website; Release date |
| 20060708 | Version to 1.4.12alpha; Release date |
| 20061222 | Version to 1.4.12; release date |
| 20070126 | Version to 1.4.12b; release date |
| 20070201 | Version to 1.4.12c; release date |
| 20070706 | Version to 1.4.13beta; release date; sqlite reference |
| 20071116 | Version to 1.4.13; release date |
| 20080322 | Version to 1.4.14beta; release date |
| 20080831 | Version to 1.4.14; release date |
| 20081121 | Version to 1.4.14a; release date |
| 20090411 | Version to 1.4.15alpha |
| 20090927 | Version to 1.4.15 |
| 20100202 | Version to 1.4.16alpha |
| 20100207 | Version comes from define in the serverdriver |
| | |

SENDSELECTED.PAS (part of conquestdicomserver.exe)

HEADERLISTER.PAS (part of conquestdicomserver.exe)

20020825: added keyboard interface (see serverdriver.pas)

EDITDATABASEFORM.PAS (part of conquestdicomserver.exe)

ABOUTNEW.PAS (part of conquestdicomserver.exe)

| 20000 |)625 | Added NewInstallForm database selector; default to MS |
|-------|------|---|
| | | ACCESS |
| 20010 |)418 | Changed text; added default install button |
| 20010 | 0830 | Version to 1.3.10 |
| 20011 | 1127 | Version to 1.3.11 |
| 20020 | 0816 | Version to 1.3.12 |
| 2002 | 1016 | Added DBF without ODBC |
| 2002 | 1017 | Version to 1.4.0 |
| 20021 | 1018 | Default to USEDBASEIIIWITHOUTODBC |
| 20030 |)324 | Version to 1.4.2 |

| 20040102 | Version to 1.4.4 |
|----------|---|
| 20040426 | Version to 1.4.4a |
| 20040530 | Version to 1.4.5 |
| 20040713 | Version to 1.4.6 |
| 20041029 | Version to 1.4.7 |
| 20050106 | Version to 1.4.7a |
| 20050901 | Version to 1.4.9 |
| 20051024 | Version to 1.4.9a |
| 20051230 | Version to 1.4.10 |
| 20060313 | Added experimental native Mysql install when libmysql.dll is |
| | found |
| 20060618 | Version to 1.4.12 |
| 20070126 | Version to 1.4.12b |
| 20070201 | Version to 1.4.12c |
| 20070305 | Version to 1.4.13alpha |
| 20070305 | Added experimental (not fully functional) native SqLite install |
| | when sqlite3.dll is found |
| 20070706 | Version to 1.4.13beta; sqlite always enabled (driver linked in) |
| 20071103 | Version to 1.4.13 |
| 20080322 | Version to 1.4.14beta |
| 20080819 | version to 1.4.14 |
| 20081121 | Added postgres; mysql unconditional; version to 1.4.14a |
| 20090411 | version to 1.4.15alpha |
| 20090927 | version to 1.4.15 |
| 20100202 | Default to SQLITE; version to 1.4.16alpha |
| 20100207 | version comes from define in the serverdriver |
| | |
| DIMENTAL | |

Version to 1.4.3 - removed ODBC DBASEIII choice

20030810

DVIEW.PAS (k-pacs viewer part of conquestdicomserver.exe)

| 20000625 | Added NewInstallForm database selector; default to MS |
|----------|--|
| 20060116 | Adapted for Delphi 5 compatibility Do not use |
| | TFormatSettings; Do not use DelimitedText |
| 20060116 | Included NKI decompression (without CRC check) |
| 20060117 | Reset NKICompress flag if normal pixel data found |
| 20060117 | Fixed AddDelimitedText; fixed for multiframe data |
| 20060117 | Fix NKI compression when DCMloadMultipleFiles is true |
| 20060117 | Fix Get_ZDimension when DCMloadMultipleFiles is true |
| 20060117 | Accept conquest .V2 files as dicom in DCMloadMultipleFiles |
| 20060120 | DcmFilename now accepts multiple filenames separated by "*" |
| 20060120 | Added new dcmTool kSlice to stack trough an image |
| 20060120 | New global boolean gNoOffsetList to bypass gOffsetList array |
| 20060121 | Reimplemented tiled display (mosaic), set with procedure |
| | DCMSetMosaic |
| 20060123 | Restored layout to allow windiff, lossy jpeg now gives correct |
| | error |
| 20060126 | Added support of value representation "UT" |
| 20060126 | Improved scaling of text overlay and meassurements |
| 20060129 | Added option to save image in RAW format |
| 20060129 | New OnMouseEnter and OnMouseLeave events and custom |
| | cursors for several gTool's |
| 20060129 | Added overlay text color option |
| 20060129 | Fixed JPEG bug in multifile mode |
| 20060130 | Changed mosaic slice# place |
| | |

| 20060130 | Fixed nki_private_decompress: error for large pixel values |
|----------|--|
| | (>32768) |
| 20060131 | Fixed reading of ELSCINT and ACUSON images that use NKI |
| | private tag 7fdf:0010 |
| 20060201 | Improved real-time image zooming through bypassing the |
| | SetDimension procedure |
| 20060202 | Fixed display of slice numbers in empty fields in multview |
| 20060204 | mode, fixed mosaic mode for multiframe dicom images |
| 20060204 | Enabled saving to TIFF using W. Krug's Bmp2Tiff unit |
| 20060205 | Added Tool kShutter |
| 20060223 | Changed rescale method to rescale buffer directly after reading |
| 20060223 | pixeldata Payarga NVI tooty if pki compression mode >4 it is not made by |
| 20000223 | Reverse NKI test: if nki compression mode >4 it is not made by NKI |
| 20060304 | Fixed NKI compression of 8-bit and color images; todo: 1966 |
| 20000304 | and some PT images level&window wrong |
| 20060420 | Added orientation indicators to text overlay |
| 20060420 | Implementation of TdcmOverlay record to describe custom |
| 20000421 | overlay |
| 20060425 | Added TRuler class to show spacing |
| 20060502 | Implementation of basic VOI_LUT support. Currently only |
| 2000000 | 16bit VOI LUTs are supported. |
| 20060607 | Merged changes mvh 20060223 and 20060304 |
| 20060608 | Need CONQUEST define to enable NKI compression, fix crash |
| | in TdView.AdjustOrientChars |
| 20060609 | Fixed VOI Lut crash when encoded explicit |
| 20060611 | Added PixelPaddingValue and PixelRepresentation to |
| | DicomData and fixed an unwanted pixel value correction if |
| | pixel padding is out of SS range |
| 20060618 | Merged again; added 20060223 and 20060304 changes back in |
| 20060712 | fixed wrong orientation lable display when ImageOrientation |
| | and ImageOrientationPatient string is available |
| 20060728 | Added support for non-square Pixel Aspect Ration |
| 20060801 | Bitmap overlay support implemented |
| 20060830 | 3D Cursor function implemented using open source vector |
| 20061107 | math units |
| 20061107 | ? |
| 20061220 | Made compileable again in conquest: stripped html support in conquest mode |
| 20061220 | Found endless recursion on double click: IFNDEF conquested |
| 20061220 | Tried to restore layout |
| 20070204 | Added (dumb) access to http: files |
| 20070204 | Important bug fix: allow switch to implicitVR: I found a |
| 20070210 | NKI compressed image with VR length 03544C = 'L', 'T', 3 |
| | and LittleEndianImplicit> length was seen seen as LT code |
| | causing reader to go out of sync see: { mvh 20070216 } |
| 20070216 | Fix that magnifier would never return its cursor by |
| | setting Screen.Cursor to default when changing modes |
| 20070305 | Put downloaded dicom file in TempPath, document download |
| | code: note not safe when using multiple controls side by side. |
| 20100207 | Added uncompress mode (uses dgate.exe, not for OCX); delete |
| | temp before using it |
| | |

| 20060130 | Replaced Japansese fonts (never create forms on a japanese laptop;->>>) |
|----------|---|
| 20060304 | Set limit to 2000 studies |
| 20060312 | Slice with + and -: keep other keys for series browser |
| | Added OpenSeries; disallow hor scrollbar in stringrid |
| 20060618 | Removed unused variable; moved slice controls into toolbar |
| 20061220 | Replaced viewertemp.\$\$\$ by passed tempfile |
| 20061222 | Added some logic for better control of zoom and l&w |
| 20070305 | Made mosaic global |
| 20071103 | Use DLL way of accessing server to avoid 'server not running' |
| | error |
| 20080108 | Fixed hard-coded IP port 5678 for K-PACS viewer |
| 20080901 | Added flip left-right button; OCX define |
| 20100207 | Added uncompress option (if set uncompression done by dgate) |

UViewerActiveFormImpl1.PAS (wraps k-pacs viewer in activeX control)

20070305 Created update history

SQLITE.PAS (TDataset control for GUI access to SQLITE3)

| 20070221 | Adapted for SQLite3, but not yet fully functional |
|----------|---|
| 20070305 | Created update history |

forms.pas (part of Delphi core library)

20020101: added two extra nil checks to avoid windows xp multi-monitor

crash

20090819: better documented changes

controls.pas (part of Delphi core library)

| 20020402: | added exception handling in finddragtarget and findvclwindow |
|-----------|--|
| | |

20020513: extended exception handling 20090819: Better documented changes

dgate.dic (dictionary file)

| 19990915 | Moved all uneven (private) group-codes to dd-private.txt |
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| 20030706 | Add NKI Pixel Data |
| 20081104 | Add 0008,0061 |
| 20100214 | Added compression info |
| 20101227 | Fixed 0020,1209 etc; added Conquest private commands |
| | (in 1.4.17alpha branched to) |
| 19990915 | Moved all uneven (private) group-codes to dd-private.txt |
| 20030706 | Add NKI Pixel Data |
| 20030802 | Adjusted to dicom 2001 (retired elements still in lib) |
| 20060913 | Adjusted to dicom 2005 |
| 20090812 | Added Philips private tags |
| 20090828 | Put those private tags in alphabetical order |
| 20091124 | Added more Philips private tags |
| 20100909 | Changed two MRI private tags (2005,100d) (2005,100e) |
| 20101004 | Added |
| 20120628 | Adjusted to dicom 2011 (VERS="4") |