

Command Line for DIS Mac

Programmer's guide for integrating the Dental
Imaging Software with Dental Practice Management
Software using the Command line

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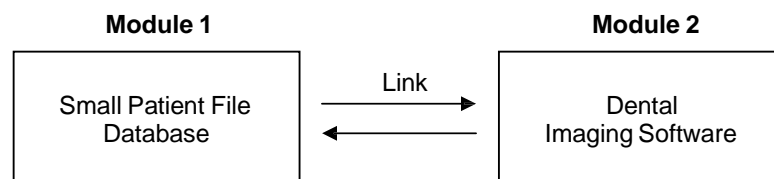
Document : 14MAC01-A



This document explains how to integrate the Dental Imaging Software with your dental practice management software (or any other third party software).

1. DENTAL IMAGING SOFTWARE STRUCTURE

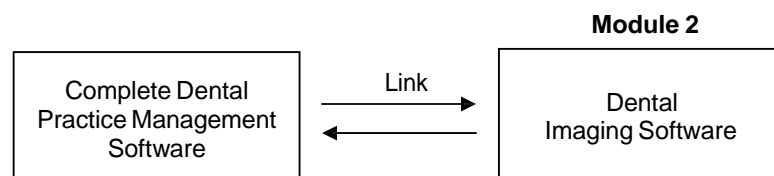
The Dental Imaging Software is made up of 2 different modules:



Module 1 manages the patient database, while module 2 manages the digital imaging (acquisition, processing, printing, storage, etc.).

2. GOAL

The goal is to integrate the Dental Imaging Software module with your database, in order to avoid duplication of databases:



The principle is that nothing (directories, database...) needs to be created by the dental practice management software. The information will be passed on as parameters when you call the Dental Imaging Software, which will take care of creating the necessary patient directories.

3. HOW TO IMPLEMENT THE LINK

The default path to launch the command line is under /Application/DIS.app/Contents/MacOS/DIS

To pass necessary information from the Dental Practice Management software to the Dental Imaging Software, the command line allows for the following parameters:

. /DIS -P'<storage path>' [-N'<patient last name>'] [-F'<patient first name>'] [-R'<doctor first name>']

- **<storage path>** is the full name of the directory (max **256** characters) where the imaging software will store all the acquired and modified images and also look for existing images to display.
- **<patient last name>** is the patient last name (max **64** characters).
- **<patient first name>** is the patient first name (max **64** characters).
- **<doctor first name>** is the doctor first name (max **64** characters). This parameter is optional.

NOTE: This means that, each time you want to change to another patient, you need to close the imaging module (with the exit button) and call it up again with the parameters for a new patient.

NOTE: The patient last and first names will be printed with each image, saved in the image file when stored and also appear on most acquisition displays.

NOTE: In case only the last name option is present, it will be used as last and first name.

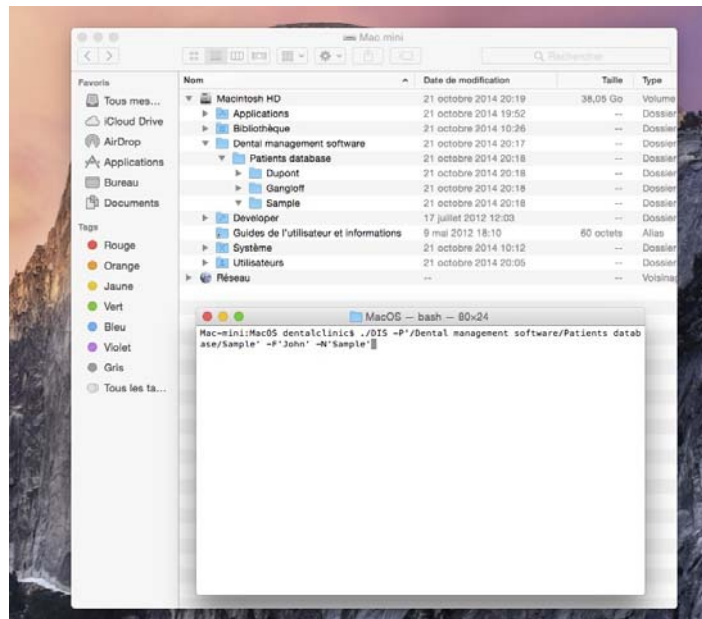
This requires that you allocate one directory for each patient. All the images for this patient will then be saved in that specific directory.

Please note:

- It is best to launch the imaging module from an icon in the practice management software
 - You can select the location and name of the patient directory (the imaging module operates as a slave, while the practice management software operates as the master)
 - It is best to use a complete path (instead of just the name of the directory)
 - There is no space between **-P** and the directory name
 - There is a space before **-P**, **-N**, **-F** and **-R**
 - The **-P**, **-N** and **-F** must be under quote
 - If a practitioner **-R** is passed on the command line, it's that name that will appear in the print. For cons, the advanced options are not changed
 - The patient directory itself will be created by the Dental Imaging Software when the patient file is called for the first time; however, the complete path where this directory is to be created must exist beforehand
 - After installing the complete Dental Imaging Software on the hard disk, you can clean up the sample database (if installed by the software) by deleting directories A.RVG to Z.RVG
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4. **EXAMPLE**

The patient's name is John Sample and his directory is /Dental Management Software/Patients database/Sample.



The command line should be:

`./DIS -P'/Dental Management Software/Patients database/Sample' -F'John' -N'Sample'`

5. **IMAGE TYPES - TROPHY WINDOWS 5 AND OLDER**

The imaging module produces image files in the TIFF format. These files are automatically named:

- Individual RVG images are named Rxxx.TIF where xxx is an automatically generated number starting with 1, e.g. R1.TIF, R159.TIF ...
- RVG images grouped in a bitewing (1+1, 1+4,...) are named Bxxx.TIF
- RVG images grouped in an FMS are named Fxxx.TIF, Xxxx.TIF or Yxxx.TIF
- Intraoral video images are named Sxxx.TIF
- Black and white scanned images are named Txxx.TIF
- Color scanned images are named Cxxx.TIF
- Panoramic images are named Pxxx.TIF

These images are stored in the directory passed on by the command line. If one wants to store them in another directory, the export function should be used. Similarly, all images that are opened come from the directory given by the command line. If one wants to load them from another directory, he must use the import function.

6. IMAGE TYPES - DENTAL IMAGING SOFTWARE VERSION 6 AND HIGHER

From version 6 onwards of the Dental Imaging Software, a new 12 bit medical file format has been introduced. The files are of the following types:

- .RVG files contain individual RVG images
- .PANO files contain panoramic images
- .CEPH files contain cephalometric images (not compatible Cephv3)
- .STV files are color images taken with an intraoral camera
- .SC files are imported (scanned) files
- .CRIO files for intraoral Computed Radiography images
- .CRPANO for panoramic Computed Radiography images
- .CRCEPH for cephalometric Computed Radiography images
- .DX, .VL, .CR and .IO files are DICOM imported images

These files start with the following letters:

- B for RVG bitewing FMS (4 images)
- F, X and Y for FMS
- P for Panoramic images
- R for RVG images
- S for STV images
- H for CEPH images
- CI for CR IO images
- CP for CR PANO images
- CH for CR CEPH images
- C for digitized color images (TWAIN) T for digitized black and white images (TWAIN)

Please note: The images saved in this medical file format cannot be opened in standard graphical software packages. All images however can be exported from the imaging module to standard graphic file formats such as BMP, JPEG, TIFF ...
