Installing MMCTP

Andrew Alexander

Medical Physics Unit McGill University

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Layout

Install files

- Configurations
 - MMCTP Preferences
 - MMCTP Shells
 - CT to Density





Install MMCTP

- Future updates from http: //www.medphys.mcgill.ca/~mmctp/MMCTP/MMCTPDis
- Latest version on USB key
- Move MMCTP folder to local drive





Files

	Mac	Windows	Linux
Package	mpkg	msi	no
App Dir	Applications	Program Files	/usr/lib/
MMCTP	user:Library:	user\AppData\	/home/user
Setting	Application	Roaming	
	Support:		
Quesa	Library:	$\Windows\$	no
	Frameworks:	Quesa.dll	
	Quesa.framework		

- App Directory: MMCTP program file, Configuration folder, DICOM library text file
- MMCTP settings directory : Stores MMCTP user files
- Quesa (Open Source, 3D graphics library): Required for 3D viewer



Windows and Linux

- Windows users move plink.exe and pscp.exe from application configurations folder to C:\
- 2 Linux users move linux MMCTP folder to /usr/lib





User files and folders

- Specify a MMCTP home directory on your computer (USB MMCTPData folder), this directory houses:
 - McGill-RT directory
 - BEAMnrc directory (input files and dosxyznrc_material.txt file)
 - Create a Commissioning directory
- Move STT files to MMCTP settings directory





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MMCTP Settings and files

These files are unique to each user and are edited within MMCTP

- Login file
- Preference file
- MLC file
- 4 Linac file
- MC control file





MMCTP Preferences

- Specify folder locations
 - McGill RT folder (stores imported McGill RT patients)
 - Olicom folder (dynamic)
 - BEAMnrc folder (stores BEAMnrc and DOSXYZnrc input files, and preferences)
 - Commissioning folder (stores beam data, profiles, PDDs, output tables)
 - McGill Cutout (for electron cutouts)
- Export options
- DVH calculation options





MMCTP Preferences

Beam Configurations MLC	CT to Density Monte Carlo Settings	Shell Refresh	Shell Run	Shell Download	Shell Login	Preferences	Dose St
McGill RT Folder	/Users/andrew/Documents/MMCTP\-P	rogramming/McC	illRT				Cha
BEAMnrc input Folder	/Users/andrew/Dropbox/MMCTP/BEAN	Inrc					Cha
DICOM Folder	/Users/andrew/Library/Application\ Su	pport/MMCTP/MI	MCTP\-Settin	gs			Cha
RTOG Folder	/Users/andrew/Dropbox/MMCTP/Main						Cha
CADPLAN Folder	/Users/andrew/Dropbox/MMCTP/Main						Cha
Commissioning Data folder	/Users/andrew/Dropbox/MMCTP/Com	mission\-Data					Chai
VMC Folder	/Users/andrew/Dropbox/MMCTP/VMC						Chai
McGill Cutout folder	/Users/andrew/Dropbox/MMCTP/Cuto	ut					Chai
O Interpolate	Export in DICOM format						
Do not Interpolate	Export in text format						
DVH Calculation							
Use Graphics	• Use Graphics and Is Within Routin	ne 🔘	Use Only Is W	ithin Routine			





MMCTP Shells

	rations MLC CT to D		s Shell Refresh Shell Run	Shell Download	Shell Login	Preferences	Dose Sta
Shell Properties	MPU-New				Del	ete Shell	
Title: User:	MPU-New andrew	Machine IP: 192.168.0.2	202	● Linux ○ PC			
	ompt: andrews	Bash:	Connection	Test			
List Files:							
Command:	Is -I	Column number for file		lumn number for date:			
		Column number for file n	name: 8 Co	lumn number for time:	7		
Tail:							
Command	tail	After file name					
Cluster:							
	File transfer protocol		Batch: keg	•			
	OFTP FTP line feed			Number of Que		_	
	SCP Connection	est	Queue:	Number of Que	ues: 0		
			Name:				
MC:	Max # of running jobs	4	BEAMnrc release	_			
ECSn	arc folder path for all user co		1				
2031			-1				
	VMC folder p						
	VMC exe p	th					
Windows	Only:						
Windows	Only: plink folder	oath: C:\					





CT to Density Curves

0		MA	MCTP Configurations			
onfigurations MLC	CT to Density M	onte Carlo Settings	Shell Refresh Sh	ell Run Shell Downloa	d Shell Login Pr	eferences Dos
Model Ec	lipse-het				Dele	te Model
CT Model						
Name	Eclipse-het					
Pegs file	700icru					
Number of Materials	3					
	Material H2O700ICRU H2O700ICRU H2O700ICRU	HU Low -1000. 0. 6000.	HU High 0. 6000. 10000.	Density Low 0.001 1. 3.9	Density High 1. 3.9 3.9	



