Release notes

v16.12

Features

Key	Summary	Release Note
CX-118	Should be possible to turn on or off custom context menu for views.	Added functionality for turning context menu of views on and off for existing layouts.
CX-128	Integrate metric properties in browser widget	A new Browser widget has been created. It contains a list of objects in the patient and can be used to control camera views and set properties and so on.
CX-167	Implement Accusurf in CustusX	Implement Accusurf in CustusX. Simple version: One target only. 1. Read CT volume (.mhd) and route-to-target centerline (.vtk) 2. Input option: Accusurf thickness (number of voxels) 3. Generate new CT volume (.mhd): Accusurf
CX-170	Allow import of 32 bit PET volumes	Allowed import of 32 bit PET volumes
CX-172	Route-to-Target plugin: Extend route	Current route-to-target (RTT) terminates at the airway centerline position closest to the target. It is necessary to extend the route to the exact target position. The old RTT line should be kept as it is, and another extended line should be created. This line will be used as input to the Accusurf plugin.
CX-186	Create template patient system	Added an option in the menu to create a new patient from an old one. In this way you can have premade template patients.
CX-188	Add texturing to mesh	It is now possible to add a texture to a mesh in a rather primitive way.
CX-189	2D slice along tool fixed to gravity.	Created a new 2D plane, ToolSide, which is parallel with the tool axis and always oriented with gravity.
CX-190	Create Custom metric	A new Custom metric has been created. This metric improves the possibilities of custom geometric modelling. One can now set an imported mesh or image in a point with a direction. The custom metric has several other features as well.
CX-191	New concept: Operating table	CustusX needed a definition of a Table, oriented relative to the patient. The table orientation can be used to provide navigation relative to the surgeon in combination with camera settings.

10 issues

Bugfixes

Key	Summary	Release Note
CX-37	Registration history	Store all registrations, if they are not explicitly marked as temporary.
CX-97	Import image from stream don't work for 3D probe	Could not reproduce the error with test data, but fixed an obvious bug where the pointer to the vtkImageData containing the stream was used instead of the DeepCopied object from the original code.
CX-115	Playback don't show any tool movement	Fixed playback issue: only the last instaled tracking system were wrapped in playback - now all systems are considered.
CX-124	Filter Tracking positions does not work	Fixed. Filter Tracking positions was not read properly: When changing the value in Properties GUI the filter is enabled. When starting the application with filter ON, nothing happened. Also added more GUI to set cutoff frequency.
CX-125	Tool offset not applied to tool during init	Fixed. The tool offset is a global property. When a tool is initialized, the global value was not applied to the tool.
CX-132	Handle crash in tool calibration	Handled a crash during tool calibration. The calibration matrix could also be corrupted and this has been handled.

6 issues