



XPand Porting Guide

This new version of XPand for Amira 6.1.1 and Avizo 9.1.1 is a major evolution bringing many enhancements to improve your programming experience. The new version introduces a more homogeneous API, is better documented and will guarantee fewer compatibility breaks in the future. To reach this goal, the new version of XPand introduces some incompatible source changes. This document lists those changes. Although we tried to be as exhaustive as possible, some minor changes might be missing.

Previously some header files (not documented in the "XPand Reference Manual") were mixed in with the "public" header files. For example, the "HxResource.h" and "HxSceneManager.h" files were both in the "include\hxcore" folder. "HxResource.h" is a public and documented header, but "HxSceneManager.h" is not a public header and is not documented in the "XPand Reference Manual". To clarify which header files are public and which are internal, all internal header files have been moved to an internal folder. For example, "HxSceneManager.h" is now located in the "include\hxcore\internal" folder. "HxResource.h" is still located in "include\hxcore". You may continue to use internal header files in your existing application, but we do not guarantee compatibility and maintainability of these files in the future. We strongly recommend that you avoid using internal header files in any new development.

McString is now an internal header. We recommend that you use QString instead of McString in your sources.

Taglib tool has been deactivated, if you do not have cleaned your Amira or Avizo local directory, it is possible that you have a compilation error about an inclusion of "taglib/internal/version-impl.h". To solve this problem, remove the "version.cpp", "winversion.rc" and "internal/winversion.h" files in your Amira or Avizo local directory.

The usage of `new` and `delete` functions is now forbidden. Developer will have to use the new methods `createInstance` and `deleteInstance` added in `MC_HEADER`.

So instead of calling:

```
time = new HxTime();
```

you must call:

```
time = HxTime::createInstance();
```

And instead of calling:

```
delete time;
```

you must call:

```
time->deleteInstance();
```



Starting from now on you must always implement these new constructor and destructor otherwise your package will not link.

Here is an example of what is necessary when you use `MC_HEADER`:

`HxLattice3ToImageInterfaceFactory.h`

```
class HxLattice3ToImageInterfaceFactory : HxInterfaceFactory
{
    MC_HEADER( HxLattice3ToImageInterfaceFactory );
};
```

`HxLattice3ToImageInterfaceFactory.cpp`

```
MC_INIT_CLASS( HxLattice3ToImageInterfaceFactory, HxInterfaceFactory );

HxLattice3ToImageInterfaceFactory::HxLattice3ToImageInterfaceFactory()
{
}

HxLattice3ToImageInterfaceFactory::~HxLattice3ToImageInterfaceFactory()
{
}
```

Note that it is still possible to declare a public constructor with parameters but it is not recommended neither supported.

It is no more possible to create an `HxObject` on the stack since the destructor is protected. Hence, a pointer must be used. A `McHandle` can be used as a smart pointer to automatically delete the object at the end of the scope. So instead of:

```
HxFlowCritical criticalPointFinder;
```

Use:

```
McHandle<HxFlowCritical> criticalPointFinder = HxFlowCritical::createInstance();
```

All those new concepts and rules are valid for `HX_HEADER` and `MC_HEADER`. They do not apply on `MC_ABSTRACT_HEADER/HX_ABSTRACT_HEADER` since abstract classes cannot be instantiated.

Changes to AmiraMesh (Package amiramesh)

- » The `AmiraMesh::nElements()` method is renamed to `AmiraMesh::getNumberOfElements()`.
- » The `AmiraMesh::parameters` member variable is changed to protected and `AmiraMesh::getParameters()`, `AmiraMesh::setParameters()` accessor(s) (is/are) added.



- » The `AmiraMesh::locationList` member variable is changed to protected and `AmiraMesh::getLocationList()`, `AmiraMesh::setLocationList()` accessor(s) (is/are) added.
- » The `AmiraMesh::dataList` member variable is changed to protected and `AmiraMesh::getDataList()`, `AmiraMesh::setDataList()` accessor(s) (is/are) added.
- » The `AmiraMesh::setNElements()` method is renamed to `AmiraMesh::setNumberOfElements()`.

Changes to `AmiraMesh::Data` (Package `amiramesh`)

- » The `AmiraMesh::Data::name()` method is renamed to `AmiraMesh::Data::getName()`.
- » The `AmiraMesh::Data::location()` method is renamed to `AmiraMesh::Data::getLocation()`.
- » The `AmiraMesh::Data::primType()` method is renamed to `AmiraMesh::Data::getPrimitiveType()`.
- » The `AmiraMesh::Data::dim()` method is renamed to `AmiraMesh::Data::getDimension()`.
- » The `AmiraMesh::Data::dataPtr()` method is renamed to `AmiraMesh::Data::getDataPtr()`.

Changes to `AmiraMesh::Field` (Package `amiramesh`)

- » The `AmiraMesh::Field::name()` method is renamed to `AmiraMesh::Field::getName()`.
- » The `AmiraMesh::Field::dim()` method is renamed to `AmiraMesh::Field::getDimension()`.
- » The `AmiraMesh::Field::primType()` method is renamed to `AmiraMesh::Field::getPrimitiveType()`.
- » The `AmiraMesh::Field::methodId()` method is renamed to `AmiraMesh::Field::getMethodId()`.
- » The `AmiraMesh::Field::nData()` method is renamed to `AmiraMesh::Field::getNumberOfData()`.
- » The `AmiraMesh::Field::data()` method is renamed to `AmiraMesh::Field::getData()`.

Changes to `AmiraMesh::Location` (Package `amiramesh`)

- » The `AmiraMesh::Location::name()` method is renamed to `AmiraMesh::Location::getName()`.
- » The `AmiraMesh::Location::nDims()` method is renamed to `AmiraMesh::Location::getNumberOfDimensions()`.
- » The `AmiraMesh::Location::dims()` method is renamed to `AmiraMesh::Location::getDimensions()`.
- » The `AmiraMesh::Location::nNodes()` method is renamed to `AmiraMesh::Location::getNumberOfNodes()`.

Changes to `HxParamBase` (Package `amiramesh`)

- » The `HxParamBase::parent()` method is renamed to `HxParamBase::getParent()`.
- » The `HxParamBase::name()` method is renamed to `HxParamBase::getName()`.
- » The `HxParamBase::flag()` method is renamed to `HxParamBase::getFlag()`.



- » The `HxParamBase::fontStyleFlag()` method is renamed to `HxParamBase::getFontStyleFlag()`.
- » The `HxParamBase::editCheck()` method is renamed to `HxParamBase::getEditCheck()`.

Changes to `HxParamBundle` (Package `amiramesh`)

- » The `HxParamBundle::size()` method is renamed to `HxParamBundle::getSize()`.
- » The `HxParamBundle::nBundles()` method is renamed to `HxParamBundle::getNumberOfBundles()`.
- » The `HxParamBundle::bundle()` method is renamed to `HxParamBundle::getBundle()`.
- » The `HxParamBundle::materials()` method is renamed to `HxParamBundle::getMaterials()`.
- » The `HxParamBundle::boundaryIds()` method is renamed to `HxParamBundle::getBoundaryIds()`.
- » The `HxParamBundle::index()` method is renamed to `HxParamBundle::getIndex()`.

Changes to `HxParameter` (Package `amiramesh`)

- » The `HxParameter::primType()` method is renamed to `HxParameter::getPrimitiveType()`.
- » The `HxParameter::data()` method is renamed to `HxParameter::getData()`.
- » The `HxParameter::dim()` method is renamed to `HxParameter::getDimension()`.

Changes to `HxColormap` (Package `hxcolor`)

- » The `HxColormap::operator=` method is removed.
- » The `HxColormap::pixmap` member variable is renamed to `HxColormap::m_pixmap`.
- » The `HxColormap::operator==` method is removed.
- » The `HxColormap::theMax` member variable is removed.
- » The `HxColormap::theMin` member variable is removed.
- » The `HxColormap::theScale` member variable is removed.
- » The `HxColormap::getPixmapHeight()` method is removed.
- » The `HxColormap::getPixmapWidth()` method is removed.
- » The `HxColormap::s_pixmapHeight` member variable is renamed to `HxColormap::PIXMAP_HEIGHT`.
- » The `HxColormap::s_pixmapWidth` member variable is renamed to `HxColormap::PIXMAP_WIDTH`.
- » The `HxColormap::getColor1()` virtual method is removed.
- » The `HxColormap::getRGBA1()` virtual method signature is changed to use `void getRGBA1 (float u, float res[4]) const` instead of `virtual void getRGBA1 (float u, float res[4]) const`.
- » The `HxColormap::setGrayScaleFlag()` method is removed.



Changes to HxColormap256 (Package hxcolor)

- » The HxColormap256::HxColormap256() method signature is changed to use HxColormap256() instead of HxColormap256 (int size=256).
- » The HxColormap256::interpolate member variable is removed.
- » The HxColormap256::OUT_OF_BOUNDS_BEHAVIOR_DEFAULT enum is renamed to HxColormap256::DEFAULT_CLAMP.
- » The HxColormap256::OUT_OF_BOUNDS_BEHAVIOR_CYCLE_RIGHT enum is renamed to HxColormap256::CYCLE_AFTER_MAX.
- » The HxColormap256::OUT_OF_BOUNDS_BEHAVIOR_CYCLE_LEFT enum is renamed to HxColormap256::CYCLE_BEFORE_MIN.
- » The HxColormap256::rgba member variable is renamed to HxColormap256::m_rgba.
- » The HxColormap256::getLength() method is renamed to HxColormap256::getSize().
- » The HxColormap256::size member variable is renamed to HxColormap256::m_size.
- » The HxColormap256::OutOfBoundsBehavior member variable is removed.
- » The HxColormap256::getColor1() virtual method is removed.
- » The HxColormap256::getChannel1() virtual method is removed.
- » The HxColormap256::getPackedColor1() virtual method is removed.
- » The HxColormap256::getRGBA1() virtual method is removed.
- » The HxColormap256::setGrayScaleFlag() virtual method is renamed to HxColormap256::updateGrayScaleFlag().
- » The HxColormap256::setMinMax() method signature is changed to use void setMinMax (float xmin, float xmax, bool forceUpdate) instead of void setMinMax (float min, float max).

Changes to HxColormapGradient (Package hxcolor)

- » The HxColormapGradient::getAlpha() virtual method is removed.
- » The HxColormapGradient::getRGBA1() virtual method is removed.

Changes to HxEditMinMax (Package hxcolor)

- » The HxEditMinMax::colorbar member variable is removed.
- » The HxEditMinMax::maxText member variable is removed.
- » The HxEditMinMax::minText member variable is removed.
- » The HxEditMinMax::m_enabled member variable is removed.
- » The HxEditMinMax::max member variable is removed.



- » The HxEditMinMax::min member variable is removed.
- » The HxEditMinMax::createWidget virtual method is removed.
- » The HxEditMinMax::guiCallback virtual method is removed.

Changes to HxPortColormap (Package hxcolor)

- » The HxPortColormap::HxPortColormap() method signature is changed to use boolean type instead of integer type.
- » The HxPortColormap::commonInit() method signature is changed to use boolean type instead of integer type.
- » The HxPortColormap::isTransparent() method signature is changed to return boolean type instead of integer type.
- » The HxPortColormap::getState() virtual method signature is changed to use QString type instead of McString type.
- » The HxPortColormap::connect() virtual method signature is changed to return boolean type instead of integer type.
- » The HxPortColormap::hasAlphaToggle member variable is changed to private and HxPortColormap::hasAlphaToggle() accessor(s) (is/are) added.
- » The HxPortColormap::colormap member variable is removed.
- » The HxPortColormap::m_autoAdjustRangeReferringConnection member variable is removed.
- » The HxPortColormap::rangeHelper member variable is removed.
- » The HxPortColormap::m_newFlags member variable is removed.
- » The HxPortColormap::bufferedHistogramEntries member variable is removed.
- » The HxPortColormap::adjustToCMapAction member variable is removed.
- » The HxPortColormap::adjustToHistoAction member variable is removed.
- » The HxPortColormap::autoAdjustRangeAction member variable is removed.
- » The HxPortColormap::constantAction member variable is removed.
- » The HxPortColormap::editColorAction member variable is removed.
- » The HxPortColormap::editColormapAction member variable is removed.
- » The HxPortColormap::loadColormapAction member variable is removed.
- » The HxPortColormap::localRangeAction member variable is removed.
- » The HxPortColormap::noColormapAction member variable is removed.
- » The HxPortColormap::transparentAction member variable is removed.
- » The HxPortColormap::colormapGroup member variable is removed.



- » The HxPortColormap::rangeToggle member variable is removed.
- » The HxPortColormap::m_histogramBackgroundUpdater member variable is removed.
- » The HxPortColormap::m_rangeUpdater member variable is removed.
- » The HxPortColormap::defaultColor member variable is removed.
- » The HxPortColormap::hasRangeToggle member variable is removed.
- » The HxPortColormap::m_adjustRangeEnabled member variable is removed.
- » The HxPortColormap::m_autoAdjustRangeEnabled member variable is removed.
- » The HxPortColormap::m_colorbarHasBufferedMinMax member variable is removed.
- » The HxPortColormap::m_constColorEnabled member variable is removed.
- » The HxPortColormap::m_discrete member variable is removed.
- » The HxPortColormap::m_forceMinMaxSensitivity member variable is removed.
- » The HxPortColormap::m_inAutoAdjustRangeMode member variable is removed.
- » The HxPortColormap::m_initOnDataRange member variable is removed.
- » The HxPortColormap::m_isLocalMinMaxForced member variable is removed.
- » The HxPortColormap::m_isLocalRangeInitialized member variable is removed.
- » The HxPortColormap::m_useHeuristics member variable is removed.
- » The HxPortColormap::useAlpha member variable is removed.
- » The HxPortColormap::useLocalRange member variable is removed.
- » The HxPortColormap::wasColorChooserOpen member variable is removed.
- » The HxPortColormap::defaultAlpha member variable is removed.
- » The HxPortColormap::localMax member variable is removed.
- » The HxPortColormap::localMin member variable is removed.
- » The HxPortColormap::localScale member variable is removed.
- » The HxPortColormap::m_colorbarBufferedMax member variable is removed.
- » The HxPortColormap::m_colorbarBufferedMin member variable is removed.
- » The HxPortColormap::m_localMaxToRestore member variable is removed.
- » The HxPortColormap::m_localMinToRestore member variable is removed.
- » The HxPortColormap::s_initOnDataRangePreferenceCb member variable is removed.
- » The HxPortColormap::createMenu() method is removed.
- » The HxPortColormap::colorEditCBS() method is removed.



- » The HxPortColormap::isCurrentColormapEditable() method is removed.
- » The HxPortColormap::guiCallback() method is removed.
- » The HxPortColormap::addConstantColorAction() method is removed.
- » The HxPortColormap::colorEditCB() method is removed.
- » The HxPortColormap::commonInit() method is removed.
- » The HxPortColormap::configureAndShowColorEditor() method is removed.
- » The HxPortColormap::initializeLocalRangeIfNecessary() method is removed.
- » The HxPortColormap::popupMenu() method is removed.
- » The HxPortColormap::restoreLocalMinMax() method is removed.
- » The HxPortColormap::saveLocalMinMax() method is removed.
- » The HxPortColormap::setColormap() method is removed.
- » The HxPortColormap::showColormap() method is removed.
- » The HxPortColormap::updateColormap() method is removed.
- » The HxPortColormap::updateColormapsMenu() method is removed.

Changes to HxPortSharedColormap (Package hxcolor)

- » The HxPortSharedColormap::HxPortSharedColormap() method signature is changed to use boolean type instead of integer type.
- » The HxPortSharedColormap::connect() virtual method signature is changed to return boolean type instead of integer type.
- » The HxPortSharedColormap::m_isEnabled member variable is removed.
- » The HxPortSharedColormap::commonInit() method is removed.

Changes to HxMain (Package hxcommon)

- » The HxMain::fileSaveData() method signature is changed to return boolean type instead of integer type.
- » The HxMain::fileSaveDataAs() method signature is changed to return boolean type instead of integer type.
- » The HxMain::fileExportDataAs() method signature is changed to return boolean type instead of integer type.
- » The HxMain::m_panelColormapEditor member variable is removed.
- » The HxMain::m_panelConsole member variable is removed.
- » The HxMain::m_panelHelpBrowser member variable is removed.



- » The HxMain::m_panelMain member variable is removed.
- » The HxMain::m_panelPropertiesArea member variable is removed.
- » The HxMain::m_panelTables member variable is removed.
- » The HxMain::createLightAction member variable is removed.
- » The HxMain::exportDataAsAction member variable is removed.
- » The HxMain::exportProjectAsToGoAction member variable is removed.
- » The HxMain::extraViewerAction member variable is removed.
- » The HxMain::fogFogAction member variable is removed.
- » The HxMain::fogHazeAction member variable is removed.
- » The HxMain::fogNoneAction member variable is removed.
- » The HxMain::fogSmokeAction member variable is removed.
- » The HxMain::fourViewersAction member variable is removed.
- » The HxMain::frameCounterAction member variable is removed.
- » The HxMain::helpAboutAction member variable is removed.
- » The HxMain::helpAvailableExtensionsAction member variable is removed.
- » The HxMain::helpExamplesAction member variable is removed.
- » The HxMain::helpLicenseAction member variable is removed.
- » The HxMain::helpOnlineSupportAction member variable is removed.
- » The HxMain::helpSystemInfoAction member variable is removed.
- » The HxMain::helpUsersGuideAction member variable is removed.
- » The HxMain::hideAllLightIconsAction member variable is removed.
- » The HxMain::m_graphViewAction member variable is removed.
- » The HxMain::m_treeViewAction member variable is removed.
- » The HxMain::measureToolsAction member variable is removed.
- » The HxMain::newProjectAction member variable is removed.
- » The HxMain::oneViewerAction member variable is removed.
- » The HxMain::openDataAction member variable is removed.
- » The HxMain::openProjectAction member variable is removed.
- » The HxMain::preferencesAction member variable is removed.
- » The HxMain::quitAction member variable is removed.



- » The HxMain::resetLightAction member variable is removed.
- » The HxMain::saveDataAction member variable is removed.
- » The HxMain::saveDataAsAction member variable is removed.
- » The HxMain::saveProjectAction member variable is removed.
- » The HxMain::saveProjectAsAction member variable is removed.
- » The HxMain::shadowingAction member variable is removed.
- » The HxMain::showAllLightIconsAction member variable is removed.
- » The HxMain::stereoPreferencesAction member variable is removed.
- » The HxMain::toggleHeadlightAction member variable is removed.
- » The HxMain::transparencyAddAction member variable is removed.
- » The HxMain::transparencyBlendAction member variable is removed.
- » The HxMain::transparencyDelayedAddAction member variable is removed.
- » The HxMain::transparencyDelayedBlendAction member variable is removed.
- » The HxMain::transparencyDelayedSortedLayerBlendAction member variable is removed.
- » The HxMain::transparencyScreenDoorAction member variable is removed.
- » The HxMain::transparencySortedLayerBlendAction member variable is removed.
- » The HxMain::transparencySortedObjectAddAction member variable is removed.
- » The HxMain::transparencySortedObjectBlendAction member variable is removed.
- » The HxMain::twoHorizontalViewersAction member variable is removed.
- » The HxMain::twoVerticalViewersAction member variable is removed.
- » The HxMain::viewAxisAction member variable is removed.
- » The HxMain::m_propertiesFrame member variable is removed.
- » The HxMain::wCentralWidget member variable is removed.
- » The HxMain::editMenu member variable is removed.
- » The HxMain::fileMenu member variable is removed.
- » The HxMain::layoutPopup member variable is removed.
- » The HxMain::lightPopup member variable is removed.
- » The HxMain::stereoPopup member variable is removed.
- » The HxMain::toolbarMenu member variable is removed.
- » The HxMain::transparencyPopup member variable is removed.



- » The HxMain::viewMenu member variable is removed.
- » The HxMain::windowMenu member variable is removed.
- » The HxMain::xpandMenu member variable is removed.
- » The HxMain::m_panelsToolBar member variable is removed.
- » The HxMain::m_workroomToolBar member variable is removed.
- » The HxMain::standardToolBar member variable is removed.
- » The HxMain::m_consoleToggleButton member variable is removed.
- » The HxMain::m_panelsButton member variable is removed.
- » The HxMain::m_centralWidgetLayout member variable is removed.
- » The HxMain::wApplyStopArea member variable is removed.
- » The HxMain::wObjectPoolGuiContainer member variable is removed.
- » The HxMain::recentFilesPopup member variable is removed.
- » The HxMain::recentProjectsPopup member variable is removed.
- » The HxMain::wPoolTab member variable is removed.
- » The HxMain::wTreeViewContainer member variable is removed.
- » The HxMain::wWorkArea member variable is removed.
- » The HxMain::m_autoAdjustRangeForColormaps member variable is removed.
- » The HxMain::m_inTreeViewMode member variable is removed.
- » The HxMain::m_isManagingCloseEvent member variable is removed.
- » The HxMain::m_resizeActionFromSplitterInitiated member variable is removed.
- » The HxMain::m_shouldUpdateProjectName member variable is removed.
- » The HxMain::m_showPoolSwitchButton member variable is removed.
- » The HxMain::m_showTabelsPanelByDefault member variable is removed.
- » The HxMain::m_animationProducer member variable is removed.
- » The HxMain::m_autoRedrawState member variable is removed.
- » The HxMain::_theMain member variable is removed.
- » The HxMain::s_restorePoint member variable is renamed to HxMain::m_restorePoint.
- » The HxMain::m_tbbTaskSchedulerInit member variable is removed.
- » The HxMain::clearRecentFiles() method is removed.
- » The HxMain::createGUI() method is removed.



- » The `HxMain::demoDialog()` method is removed.
- » The `HxMain::isManagingCloseEvent()` method is removed.

Changes to `HxPanelHelpBrowser` (Package `hxcommon`)

- » The `HxPanelHelpBrowser::load()` virtual method signature is changed to use `QString` type instead of `McString` type.
- » The `HxPanelHelpBrowser::source()` virtual method is renamed to `HxPanelHelpBrowser::getSource()`.
- » The `HxPanelHelpBrowser::setText()` virtual method signature is changed to use `QString` type instead of `McString` type.
- » The `HxPanelHelpBrowser::find()` virtual method signature is changed to use `QString` type instead of `McString` type.

Changes to `HxMultiRangeHelper` (Package `hxcore`)

- » The `HxMultiRangeHelper::autoAdjustRangeGuid` member variable type is changed to use `QString` instead of `McString`.

Changes to `Hx3DWandBase` (Package `hxcore`)

- » The `Hx3DWandBase::_sceneOrientation` member variable is renamed to `Hx3DWandBase::m_sceneOrientation`.
- » The `Hx3DWandBase::_vrOrientation` member variable is renamed to `Hx3DWandBase::m_vrOrientation`.
- » The `Hx3DWandBase::_sceneOrigin` member variable is renamed to `Hx3DWandBase::m_sceneOrigin`.
- » The `Hx3DWandBase::_sceneTop` member variable is renamed to `Hx3DWandBase::m_sceneTop`.
- » The `Hx3DWandBase::_vrOrigin` member variable is renamed to `Hx3DWandBase::m_vrOrigin`.
- » The `Hx3DWandBase::_vrTop` member variable is renamed to `Hx3DWandBase::m_vrTop`.
- » The `Hx3DWandBase::hotSpot` member variable is renamed to `Hx3DWandBase::m_hotSpot`.
- » The `Hx3DWandBase::getButton()` method signature is changed to use `integer` type instead of `unsigned int` type.
- » The `Hx3DWandBase::wasButtonPressed()` method signature is changed to use `integer` type instead of `unsigned int` type.
- » The `Hx3DWandBase::wasButtonReleased()` method signature is changed to use `integer` type instead of `unsigned int` type.
- » The `Hx3DWandBase::sceneToVRTransform` member variable is renamed to `Hx3DWandBase::m_sceneToVRTransform`.
- » The `Hx3DWandBase::vrToSceneTransform` member variable is renamed to `Hx3DWandBase::m_vrToSceneTransform`.



- » The `Hx3DWandBase::_sceneLength` member variable is renamed to `Hx3DWandBase::m_sceneLength`.
- » The `Hx3DWandBase::_vrLength` member variable is renamed to `Hx3DWandBase::m_vrLength`.
- » The `Hx3DWandBase::wandScale` member variable is renamed to `Hx3DWandBase::m_wandScale`.
- » The `Hx3DWandBase::buttonStatus` member variable is renamed to `Hx3DWandBase::m_buttonStatus`.
- » The `Hx3DWandBase::lastButtonStatus` member variable is renamed to `Hx3DWandBase::m_lastButtonStatus`.
- » The `Hx3DWandBase::createDefaultWand()` method signature is changed to use integer type instead of unsigned int type.
- » The `Hx3DWandBase::update()` virtual method signature is changed to use integer type instead of unsigned int type.

Changes to HxBase (Package hxcore)

- » The `HxBase::theLabel` member variable type is changed to use `QString` instead of `McString`.
- » The `HxBase::theLabelCamelCase` member variable type is changed to use `QString` instead of `McString`.
- » The `HxBase::theLabelWithDoubleQuotes` member variable type is changed to use `QString` instead of `McString`.
- » The `HxBase::getLabel()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxBase::setLabel()` virtual method signature is changed to use `QString` type instead of `char*` type.
- » The `HxBase::convertToCamelCase()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxBase::getCamelCaseLabel()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxBase::getTclMemberVar()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxBase::callTclMemberFunction()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxBase::setResultName()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxBase::composeLabel()` method signature is changed to use `QString` type instead of `McString` type.

Changes to HxBatchModule (Package hxcore)

- » The `HxBatchModule::isRunning()` method signature is changed to use boolean type instead of integer type.
- » The `HxBatchModule::batchEntry()` method is removed.
- » The `HxBatchModule::batchExit()` method is removed.



- » The `HxBatchModule::sigId` member variable is removed.

Changes to `HxCameraPath` (Package `hxcore`)

- » The `HxCameraPath::getAngle()` method is removed.

Changes to `HxCommonCore` (Package `hxcore`)

- » The `HxCommonCore::main()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxCommonCore::s_callstack` member variable is removed.
- » The `HxCommonCore::s_safeExit` member variable is removed.
- » The `HxCommonCore::s_errorExitCallbacks` member variable is removed.

Changes to `HxConnection` (Package `hxcore`)

- » The `HxConnection::source()` method is renamed to `HxConnection::getSource()`.
- » The `HxConnection::isEditable()` method signature is changed to return `boolean` type instead of `integer` type.
- » The `HxConnection::allowEditing()` method signature is changed to use `boolean` type instead of `integer` type.
- » The `HxConnection::setTightness()` method signature is changed to use `boolean` type instead of `integer` type.
- » The `HxConnection::editable` member variable type is changed to use `boolean` instead of `integer`.
- » The `HxConnection::tight` member variable type is changed to use `boolean` instead of `integer`.
- » The `HxConnection::connect()` virtual method signature is changed to return `boolean` type instead of `integer` type.
- » The `HxConnection::setState()` virtual method signature is changed to use `QString` type instead of `McString` type.
- » The `HxConnection::getState()` virtual method signature is changed to use `QString` type instead of `McString` type.

Changes to `HxController` (Package `hxcore`)

- » The `HxController::spaceball` member variable is changed to `protected` and `HxController::getSpaceball()`, `HxController::setSpaceball()` accessor(s) (is/are) added.
- » The `HxController::spaceballMode` member variable is changed to `protected` and `HxController::getSpaceballMode()`, `HxController::setSpaceballMode()` accessor(s) (is/are) added.
- » The `HxController::fullScreenFlag` member variable is changed to `protected` and `HxController::getFullScreenFlag()`, `HxController::setFullScreenFlag()` accessor(s) (is/are) added.
- » The `HxController::noOverlays` member variable is changed to `protected` and



HxController::getNoOverlays(), HxController::setNoOverlays() accessor(s) (is/are) added.

- » The HxController::noStencils member variable is changed to protected and HxController::getNoStencils(), HxController::setNoStencils() accessor(s) (is/are) added.
- » The HxController::defaultDepthSize member variable is changed to protected and HxController::getDefaultDepthSize(), HxController::setDefaultDepthSize() accessor(s) (is/are) added.
- » The HxController::isInteractionDone member variable is changed to protected and HxController::isInteractionDone(), HxController::setInteractionDone() accessor(s) (is/are) added.
- » The HxController::fogRange member variable is changed to protected and HxController::getFogRange() accessor(s) (is/are) added.
- » The HxController::isViewerVisible() method signature is changed to return boolean type instead of integer type.
- » The HxController::setSmoothing() method signature is changed to use boolean type instead of integer type.
- » The HxController::getFullScreenFlag() method is renamed to HxController::isFullScreenFlag().
- » The HxController::setFullScreenFlag() method signature is changed to use boolean type instead of integer type.

Changes to HxData (Package hxcore)

- » The HxData::registerData() method signature is changed to use static void registerData(HxData* newData, const QString& filename) instead of static void registerData (HxData *newData, const QString &filename, const char *ext=NULL).
- » The HxData::saveInfo member variable is changed to protected and HxData::getSaveInfo(), HxData::setSaveInfo() accessor(s) (is/are) added.
- » The HxData::touchTime member variable is renamed to HxData::m_touchTime.
- » The HxData::newFlag member variable is renamed to HxData::m_newFlag.
- » The HxData::setLoadCmd() method signature is changed to use boolean type instead of integer type.

Changes to HxEditor (Package hxcore)

- » The HxEditor::typeCheck() virtual method signature is changed to return boolean type instead of integer type.

Changes to HxFileDialog (Package hxcore)

- » The HxFileDialog::_theFileDialog member variable is renamed to HxFileDialog::m_theFileDialog.

Changes to HxFileFormat (Package hxcore)

- » The HxFileFormat::enumerate() method signature is changed to use QString type instead of McString type.



- » The `HxFileFormat::checkHeader()` method signature is changed to return boolean type instead of integer type.
- » The `HxFileFormat::checkFilename()` method signature is changed to return boolean type instead of integer type.
- » The `HxFileFormat::exportProject()` method signature is changed to return boolean type instead of integer type.
- » The `HxFileFormat::loadPartOfFile()` method signature is changed to return boolean type instead of integer type.
- » The `HxFileFormat::canSave()` method signature is changed to return boolean type instead of integer type.
- » The `HxFileFormat::save()` method signature is changed to return boolean type instead of integer type.
- » The `HxFileFormat::isLoading()` method signature is changed to return boolean type instead of integer type.
- » The `HxFileFormat::isSave()` method signature is changed to return boolean type instead of integer type.
- » The `HxFileFormat::isExport()` method signature is changed to return boolean type instead of integer type.
- » The `HxFileFormat::isMultiSave()` method signature is changed to return boolean type instead of integer type.
- » The `HxFileFormat::extensionData` member variable is renamed to `HxFileFormat::m_extensionData`.
- » The `HxFileFormat::m_ldaCheckCB` member variable type is changed to use `QString` instead of `McString`.
- » The `HxFileFormat::m_lddCheckCB` member variable type is changed to use `QString` instead of `McString`.
- » The `HxFileFormat::saveTypes` member variable is renamed to `HxFileFormat::m_saveTypes`.
- » The `HxFileFormat::suffices` member variable is renamed to `HxFileFormat::m_suffices`.
- » The `HxFileFormat::filenameRegEx` member variable is renamed to `HxFileFormat::m_filenameRegEx`.
- » The `HxFileFormat::headerRegEx` member variable is renamed to `HxFileFormat::m_headerRegEx`.
- » The `HxFileFormat::LDAConvertible` member variable is renamed to `HxFileFormat::m_LDAConvertible`.
- » The `HxFileFormat::LDDConvertible` member variable is renamed to `HxFileFormat::m_LDDConvertible`.
- » The `HxFileFormat::hiddenInFileFormatSelection` member variable is renamed to `HxFileFormat::m_hiddenInFileFormatSelection`.
- » The `HxFileFormat::isRaw` member variable is renamed to `HxFileFormat::m_isRaw`.
- » The `HxFileFormat::check` member variable is renamed to `HxFileFormat::m_check`.
- » The `HxFileFormat::exportFunctionName` member variable is renamed to `HxFileFormat::m_exportFunctionName`.



- » The `HxFileFormat::label` member variable is renamed to `HxFileFormat::m_label`.
- » The `HxFileFormat::loadFunctionName` member variable is renamed to `HxFileFormat::m_loadFunctionName`.
- » The `HxFileFormat::option` member variable is renamed to `HxFileFormat::m_option`.
- » The `HxFileFormat::saveFunctionName` member variable is renamed to `HxFileFormat::m_saveFunctionName`.
- » The `HxFileFormat::sharedObjectName` member variable is renamed to `HxFileFormat::m_sharedObjectName`.
- » The `HxFileFormat::setAutomaticallyFunction()` method signature is changed to return boolean type instead of integer type.
- » The `HxFileFormat::multiLoad` member variable is removed.
- » The `HxFileFormat::multiSave` member variable is removed.
- » The `HxFileFormat::qstringLoad` member variable is removed.

Changes to `HxFilenameTranslator` (Package `hxcore`)

- » The `HxFilenameTranslator::HxFilenameTranslator()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxFilenameTranslator::translateFilename()` virtual method signature is changed to use `QString` type instead of `McString` type.
- » The `HxFilenameTranslator::setOptions()` virtual method signature is changed to use `QString` type instead of `McString` type.
- » The `HxFilenameTranslator::getOptions()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxFilenameTranslator::m_options` member variable type is changed to use `QString` instead of `McString`.

Changes to `HxHTML` (Package `hxcore`)

- » The `HxHTML::load()` virtual method signature is changed to use `QString` type instead of `McString` type.
- » The `HxHTML::setText()` virtual method signature is changed to use `QString` type instead of `McString` type.
- » The `HxHTML::find()` virtual method signature is changed to use `QString` type instead of `McString` type.
- » The `HxHTML::source()` virtual method is renamed to `HxHTML::getSource()`.
- » The `HxHTML::wBrowser` member variable is renamed to `HxHTML::m_wBrowser`.

Changes to `HxInterpreter` (Package `hxcore`)

- » The `HxInterpreter::eval()` virtual method signature is changed to use `QString` type instead of `McString`



type.

- » The `HxInterpreter::functionKeyHit()` method signature is changed to return boolean type instead of integer type.
- » The `HxInterpreter::openAmiraSocket()` method is renamed to `HxInterpreter::openSocket()`.
- » The `HxInterpreter::closeAmiraSocket()` method is renamed to `HxInterpreter::closeSocket()`.
- » The `HxInterpreter::portAmiraSocket()` method is renamed to `HxInterpreter::portSocket()`.
- » The `HxInterpreter::getAvizoCompatibility()` method is renamed to `HxInterpreter::getCompatibilityVersion()`.
- » The `HxInterpreter::setAvizoCompatiblity()` method is renamed to `HxInterpreter::setCompatibilityVersion()`.
- » The `HxInterpreter::httpd` member variable is renamed to `HxInterpreter::m_httpd`.
- » The `HxInterpreter::amiraSocket` member variable is renamed to `HxInterpreter::m_socket`.
- » The `HxInterpreter::amiraSocketNotifier` member variable is renamed to `HxInterpreter::m_socketNotifier`.
- » The `HxInterpreter::httpdSocketNotifier` member variable is renamed to `HxInterpreter::m_httpdSocketNotifier`.
- » The `HxInterpreter::mNotifier` member variable is renamed to `HxInterpreter::m_mNotifier`.
- » The `HxInterpreter::inter` member variable is renamed to `HxInterpreter::m_inter`.
- » The `HxInterpreter::m_avizoCompatibility` member variable is renamed to `HxInterpreter::m_compatibilityVersion`.

Changes to HxMasterConnection (Package hxcore)

- » The `HxMasterConnection::getResultSlotName()` method signature is changed to return boolean type instead of integer type.
- » The `HxMasterConnection::connect()` virtual method signature is changed to return boolean type instead of integer type.
- » The `HxMasterConnection::getState()` virtual method signature is changed to use `QString` type instead of `McString` type.
- » The `HxMasterConnection::setState()` virtual method signature is changed to use `QString` type instead of `McString` type.

Changes to HxMatDataBase (Package hxcore)

- » The `HxMatDataBase::saveAmiraMesh()` method signature is changed to return boolean type instead of integer type.
- » The `HxMatDataBase::setDefaultDatabase()` method signature is changed to return boolean type instead of integer type.



» The `HxMatDataBase::parameters` member variable is changed to protected and `HxMatDataBase::getParameters()` accessor(s) (is/are) added.

Changes to `HxMessage` (Package `hxcore`)

- » The `HxMessage::Info()` method is renamed to `HxMessage::info()`.
- » The `HxMessage::Overwrite()` method is renamed to `HxMessage::overwrite()`.

Changes to `HxModule` (Package `hxcore`)

- » The `HxModule::gatherPickInfo()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxModule::autoConnect()` virtual method signature is changed to return `boolean` type instead of `integer` type.

Changes to `HxMultiRangeHelper` (Package `hxcore`)

- » The `HxMultiRangeHelper::autoAdjustRangeGuid()` method signature is changed to use `QString` type instead of `McString` type.

Changes to `HxObject` (Package `hxcore`)

- » The `HxObject::downStreamConnections` member variable is changed to protected and `HxObject::getDownStreamConnections()`, `HxObject::addDownStreamConnections()`, `HxObject::removeAtDownStreamConnections()`, `HxObject::removeAllDownStreamConnections()` accessor(s) (is/are) added.
- » The `HxObject::connectionPorts` member variable is changed to protected and `HxObject::getConnectionPorts()`, `HxObject::addConnectionPorts()`, `HxObject::removeAtConnectionPorts()`, `HxObject::removeAllConnectionPorts()` accessor(s) (is/are) added.
- » The `HxObject::pin()` method is renamed to `HxObject::setPinned()`.
- » The `HxObject::canCreateData()` virtual method signature is changed to use `QString` type instead of `McString` type.
- » The `HxObject::getPackage()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxObject::getHelpHint()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxObject::getState()` virtual method signature is changed to return `boolean` type instead of `integer` type.
- » The `HxObject::autoConnect()` virtual method signature is changed to return `boolean` type instead of `integer` type.
- » The `HxObject::interfaceWidget()` method signature is changed to return `boolean` type instead of `integer` type.
- » The `HxObject::connect()` virtual method signature is changed to return `boolean` type instead of `integer` type.



type.

- » The `HxObject::createDocFiles()` method signature is changed to use boolean type instead of integer type.
- » The `HxObject::setLabel()` virtual method signature is changed to use `QString` type instead of `char*` type.
- » The `HxObject::firePass1()` method is removed.
- » The `HxObject::parseCreateDocFilesCmd()` method is removed.
- » The `HxObject::int hasGeometry()` method is removed.
- » The `HxObject::editorInfo` member variable is removed.

Changes to `HxObjectPool` (Package `hxc`)

- » The `HxObjectPool::saveData()` method signature is changed to return boolean type instead of integer type.
- » The `HxObjectPool::inDuplicateMode()` method is renamed to `HxObjectPool::isDuplicateModeEnabled()`.
- » The `HxObjectPool::replaceObject()` method signature is changed to return boolean type instead of integer type.
- » The `HxObjectPool::saveNetwork()` method signature is changed to return boolean type instead of integer type.
- » The `HxObjectPool::saveData()` method signature is changed to return boolean type instead of integer type.
- » The `HxObjectPool::exportNetwork()` method signature is changed to return boolean type instead of integer type.
- » The `HxObjectPool::copyCutPasteEnabled()` method is renamed to `HxObjectPool::isCopyCutPasteEnabled()`.
- » The `HxObjectPool::notifyRename()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxObjectPool::findObject()` method signature is changed to use `QString` type instead of `char*` type.
- » The `HxObjectPool::copyList()` method is removed.
- » The `HxObjectPool::nodeList()` method is changed to private and `HxObjectPool::getNodeList()` accessor(s) (is/are) added.
- » The `HxObjectPool::selectionList()` method is changed to private and `HxObjectPool::getSelectionList()` accessor(s) (is/are) added.
- » The `HxObjectPool::visibleList()` method is changed to private and `HxObjectPool::getVisibleList()` accessor(s) (is/are) added.
- » The `HxObjectPool::cutObjectsSavedCommands` member variable is removed.
- » The `HxObjectPool::viewerTogglesOnIcons` member variable is changed to private and `HxObjectPool::isViewerTogglesOnIcons()` accessor(s) (is/are) added.



- » The `HxObjectPool::getNetworkName()` method signature is changed to return `QString` type instead of `McFilename` type.
- » The `HxObjectPool::m_copyCutPasteEnabled` member variable is removed.
- » The `HxObjectPool::cutInProgress` member variable is removed.
- » The `HxObjectPool::executeDuplicationCommands()` method signature is changed to return `boolean` type instead of `integer` type.
- » The `HxObjectPool::hideNewModules` member variable is changed to `private` and `HxObjectPool::setHideNewModules()` accessor(s) (is/are) added.
- » The `HxObjectPool::redrawInhibit` member variable is changed to `private` and `HxObjectPool::decreaseRedrawInhibit()`, `HxObjectPool::decreaseRedrawInhibit()` accessor(s) (is/are) added.
- » The `HxObjectPool::setNetworkName()` method signature is changed to use `QString` type instead of `McFilename` type.
- » The `HxObjectPool::saveState()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxObjectPool::getHideNewModules()` method is renamed to `HxObjectPool::isHideNewModules()`.

Changes to `HxPlanarModBase` (Package `hxcore`)

- » The `HxPlanarModBase::planeIsNew()` method signature is changed to return `boolean` type instead of `integer` type.
- » The `HxPlanarModBase::resetPlaneAtDataConnection()` virtual method is renamed to `HxPlanarModBase::setResetPlaneAtDataConnection()`.
- » The `HxPlanarModBase::isFirst()` method signature is changed to return `boolean` type instead of `integer` type.
- » The `HxPlanarModBase::clampToBoundingBox()` method is renamed to `HxPlanarModBase::getClampToBoundingBox()`.
- » The `HxPlanarModBase::puVec` member variable is renamed to `HxPlanarModBase::m_puVec`.
- » The `HxPlanarModBase::pvVec` member variable is renamed to `HxPlanarModBase::m_pvVec`.
- » The `HxPlanarModBase::isClipping()` method signature is changed to return `boolean` type instead of `integer` type.

Changes to `HxPort` (Package `hxcore`)

- » The `HxPort::name()` method is renamed to `HxPort::getName()`.
- » The `HxPort::object()` method is renamed to `HxPort::getObject()`.
- » The `HxPort::owner()` method is renamed to `HxPort::getOwner()`.
- » The `HxPort::setPin()` method is renamed to `HxPort::setPinned()`.



- » The `HxPort::getPin()` method is renamed to `HxPort::isPinned()`.
- » The `HxPort::getState()` virtual method signature is changed to use `QString` type instead of `McString` type.
- » The `HxPort::setState()` virtual method signature is changed to use `QString` type instead of `McString` type.
- » The `HxPort::getShortState()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxPort::isLinkingPortActionInProgress` member variable is renamed to `HxPort::m_linkingPortActionInProgress`.
- » The `HxPort::isLinkingPortActionInProgress` member variable is changed to protected and `HxPort::isLinkingPortActionInProgress()`, `HxPort::setLinkingPortActionInProgress()` accessor(s) (is/are) added.
- » The `HxPort::getConnectionLine()` method is renamed to `HxPort::getAliasNames()`.
- » The `HxPort::addHeaderWidget()` method is renamed to `HxPort::addExternalWidget()`.
- » The `HxPort::removeHeaderWidget()` method is renamed to `HxPort::removeExternalWidget()`.
- » The `HxPort::m_showPinButton` member variable is changed to private and `HxPort::pinShown()` accessor(s) (is/are) added.
- » The `HxPort::m_originalOwner` member variable is removed.
- » The `HxPort::m_interconnection` member variable is removed.
- » The `HxPort::m_allowedRemoteCtrl` member variable is removed.
- » The `HxPort::portList` member variable is removed.
- » The `HxPort::hideMask` member variable is removed.
- » The `HxPort::m_itemsTooTip` member variable is removed.
- » The `HxPort::m_aliasNames` member variable is removed.
- » The `HxPort::m_name` member variable is removed.
- » The `HxPort::m_toolTip` member variable is removed.
- » The `HxPort::m_linkButton` member variable is removed.
- » The `HxPort::m_fireOnSaveNetwork` member variable is removed.
- » The `HxPort::m_forceSpreadFire` member variable is removed.
- » The `HxPort::m_interfacesAreAttached` member variable is removed.
- » The `HxPort::m_isInterconnectable` member variable is removed.
- » The `HxPort::m_isShownInWorkArea` member variable is removed.
- » The `HxPort::m_synchroFlag` member variable is removed.
- » The `HxPort::m_headerWidgets` member variable is renamed to `HxPort::m_externalWidgets`.
- » The `HxPort::labelString` member variable is renamed to `HxPort::m_labelString`.



- » The `HxPort::pin` member variable is renamed to `HxPort::m_pin`.
- » The `HxPort::baseWidget` member variable is renamed to `HxPort::m_baseWidget`.
- » The `HxPort::m_headerWidgetsContainer` member variable is renamed to `HxPort::m_externalWidgetsContainer`.
- » The `HxPort::layout` member variable is renamed to `HxPort::m_layout`.
- » The `HxPort::canBeAnimated` member variable is renamed to `HxPort::m_canBeAnimated`.
- » The `HxPort::hasLabel` member variable is renamed to `HxPort::m_hasLabel`.
- » The `HxPort::hasPinFlag` member variable is renamed to `HxPort::m_hasPinFlag`.
- » The `HxPort::labelShift` member variable is renamed to `HxPort::m_labelShift`.
- » The `HxPort::labelWidth` member variable is renamed to `HxPort::m_labelWidth`.
- » The `HxPort::newFlag` member variable is renamed to `HxPort::m_newFlag`.
- » The `HxPort::pinFlag` member variable is renamed to `HxPort::m_pinFlag`.
- » The `HxPort::visible` member variable is renamed to `HxPort::m_visible`.

Changes to `HxPort3DPointList` (Package `hxcore`)

- » The `HxPort3DPointList::removePoint()` method signature is changed to return boolean type instead of integer type.
- » The `HxPort3DPointList::showDragger()` method signature is changed to use boolean type instead of integer type.
- » The `HxPort3DPointList::showPoints()` method signature is changed to use boolean type instead of integer type.
- » The `HxPort3DPointList::showOptionButton()` method signature is changed to use boolean type instead of integer type.
- » The `HxPort3DPointList::addXyzLabels()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxPort3DPointList::getFormat()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxPort3DPointList::setOrtho()` method is renamed to `HxPort3DPointList::setOrthoMode()`.
- » The `HxPort3DPointList::getOrtho()` method is renamed to `HxPort3DPointList::isOrthoModeEnabled()`.
- » The `HxPort3DPointList::setImmediate()` method is renamed to `HxPort3DPointList::setImmediateMode()`.
- » The `HxPort3DPointList::getImmediate()` method is renamed to `HxPort3DPointList::isImmediateModeEnabled()`.
- » The `HxPort3DPointList::m_notifier` member variable is changed to private and



HxPort3DPointList::getNotifier() accessor(s) (is/are) added.

- » The HxPort3DPointList::getState() virtual method signature is changed to use QString type instead of McString type.
- » The HxPort3DPointList::getShortState() virtual method signature is changed to use QString type instead of McString type.
- » The HxPort3DPointList::m_xyzLabels member variable is removed.
- » The HxPort3DPointList::dragger member variable is removed.
- » The HxPort3DPointList::pointSelector member variable is removed.
- » The HxPort3DPointList::pointListSep member variable is removed.
- » The HxPort3DPointList::m_blockedSignals member variable is removed.
- » The HxPort3DPointList::format member variable is removed.
- » The HxPort3DPointList::appendModeAction member variable is removed.
- » The HxPort3DPointList::appendModeSeparator member variable is removed.
- » The HxPort3DPointList::appendPointAction member variable is removed.
- » The HxPort3DPointList::displayInteractiveFeedbackAction member variable is removed.
- » The HxPort3DPointList::insertPointAction member variable is removed.
- » The HxPort3DPointList::removePointAction member variable is removed.
- » The HxPort3DPointList::showDraggerAction member variable is removed.
- » The HxPort3DPointList::showPointsFlagAction member variable is removed.
- » The HxPort3DPointList::button member variable is removed.
- » The HxPort3DPointList::spinBox member variable is removed.
- » The HxPort3DPointList::actionNotifier member variable is removed.
- » The HxPort3DPointList::text member variable is removed.
- » The HxPort3DPointList::highlightColor member variable is removed.
- » The HxPort3DPointList::pointColor member variable is removed.
- » The HxPort3DPointList::xForm member variable is removed.
- » The HxPort3DPointList::m_eventCB member variable is removed.
- » The HxPort3DPointList::canRetrieve3DPoint() method is removed.
- » The HxPort3DPointList::get3DPoint() method is removed.
- » The HxPort3DPointList::m_alwaysEnablingInteraction member variable is removed.
- » The HxPort3DPointList::m_clampToBoundingBox member variable is changed to private and



HxPort3DPointList::isClampedToBoundingBox() accessor(s) (is/are) added.

» The HxPort3DPointList::m_isDisplayingInteractiveFeedback member variable is removed.

» The HxPort3DPointList::m_isInteractive member variable is removed.

» The HxPort3DPointList::m_showOptionButton member variable is removed.

» The HxPort3DPointList::m_supportInteractiveLineFeedbackOption member variable is removed.

» The HxPort3DPointList::m_referenceCoordSystem member variable is removed.

» The HxPort3DPointList::m_pickedPoint member variable is removed.

» The HxPort3DPointList::pointSizeFactor member variable is removed.

» The HxPort3DPointList::xmax member variable is removed.

» The HxPort3DPointList::xmin member variable is removed.

» The HxPort3DPointList::ymax member variable is removed.

» The HxPort3DPointList::ymin member variable is removed.

» The HxPort3DPointList::zmax member variable is removed.

» The HxPort3DPointList::zmin member variable is removed.

» The HxPort3DPointList::current member variable is removed.

» The HxPort3DPointList::maxNumPoints member variable is changed to private and HxPort3DPointList::getMaxNumPoints() accessor(s) (is/are) added.

» The HxPort3DPointList::minNumPoints member variable is changed to private and HxPort3DPointList::getMinNumPoints() accessor(s) (is/are) added.

» The HxPort3DPointList::s_registeredKeysFilter member variable is removed.

» The HxPort3DPointList::SbBool keyFilterCB() method is removed.

» The HxPort3DPointList::keyFilterCallbackRegistered member variable is removed.

» The HxPort3DPointList::controllerEventCB() method is removed.

» The HxPort3DPointList::dragChangedCB() method is removed.

» The HxPort3DPointList::dragFinishCB() method is removed.

» The HxPort3DPointList::dragStartCB() method is removed.

» The HxPort3DPointList::keyPressedCB() method is removed.

» The HxPort3DPointList::location2CB() method is removed.

» The HxPort3DPointList::pickCallbackCB() method is removed.

» The HxPort3DPointList::selPointCallback() method is removed.

» The HxPort3DPointList::trackerEventCB() method is removed.



- » The `HxPort3DPointList::m_objectsAllowingReactionOnMouseEvents` member variable is removed.
- » The `HxPort3DPointList::bboxSet` member variable is removed.
- » The `HxPort3DPointList::immediate` member variable is removed.
- » The `HxPort3DPointList::isMoving` member variable is removed.
- » The `HxPort3DPointList::ortho` member variable is removed.
- » The `HxPort3DPointList::pickCallbackRegistered` member variable is removed.
- » The `HxPort3DPointList::showDraggerFlag` member variable is changed to private and `HxPort3DPointList::isDraggerVisible()` accessor(s) (is/are) added.
- » The `HxPort3DPointList::showPointsFlag` member variable is removed.
- » The `HxPort3DPointList::commonInit()` method is removed.
- » The `HxPort3DPointList::dragChanged()` method is removed.
- » The `HxPort3DPointList::dragFinish()` method is removed.
- » The `HxPort3DPointList::dragStart()` method is removed.
- » The `HxPort3DPointList::pickCallback()` method is removed.
- » The `HxPort3DPointList::registerPickCallback()` method is removed.
- » The `HxPort3DPointList::selectPoint()` method is removed.
- » The `HxPort3DPointList::setPointColor()` method is removed.
- » The `HxPort3DPointList::translate()` method is removed.
- » The `HxPort3DPointList::updateInterface()` method is removed.
- » The `HxPort3DPointList::updatePointSize()` method is removed.
- » The `HxPort3DPointList::removePoint()` method signature is changed to return boolean type instead of integer type.

Changes to `HxPortButtonList` (Package `hxcORE`)

- » The `HxPortButtonList::setSensitivity()` method signature is changed to use boolean type instead of integer type.
- » The `HxPortButtonList::getSensitivity()` method signature is changed to return boolean type instead of integer type.
- » The `HxPortButtonList::enableSnapToggle()` method signature is changed to use boolean type instead of integer type.
- » The `HxPortButtonList::isSnapToggleEnabled()` method signature is changed to return boolean type instead of integer type.
- » The `HxPortButtonList::snap()` method signature is changed to use boolean type instead of integer type.



- » The `HxPortButtonList::isSnapped()` method signature is changed to return boolean type instead of integer type.
- » The `HxPortButtonList::wasHit()` method signature is changed to return boolean type instead of integer type.
- » The `HxPortButtonList::getCmd()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxPortButtonList::wasAltDown()` method signature is changed to return boolean type instead of integer type.
- » The `HxPortButtonList::wasCtrlDown()` method signature is changed to return boolean type instead of integer type.
- » The `HxPortButtonList::wasShiftDown()` method signature is changed to return boolean type instead of integer type.
- » The `HxPortButtonList::modifierFlags` member variable is removed.
- » The `HxPortButtonList::commonInit()` method is removed.

Changes to `HxPortButtonMenu` (Package `hxcore`)

- » The `HxPortButtonMenu::setOptValue()` method signature is changed to return boolean type instead of integer type.
- » The `HxPortButtonMenu::setOptSensitivity()` method signature is changed to use boolean type instead of integer type.
- » The `HxPortButtonMenu::getOptSensitivity()` method signature is changed to return boolean type instead of integer type.
- » The `HxPortButtonMenu::getState()` virtual method signature is changed to use `QString` type instead of `McString` type.
- » The `HxPortButtonMenu::menus` member variable is removed.
- » The `HxPortButtonMenu::nMenus` member variable is removed.
- » The `HxPortButtonMenu::initWidgets()` method is removed.

Changes to `HxPortColorList` (Package `hxcore`)

- » The `HxPortColorList::getAlphaEnabled()` method is renamed to `HxPortColorList::isAlphaChannelEnabled()`.
- » The `HxPortColorList::setAlphaEnabled()` method is renamed to `HxPortColorList::setAlphaChannel()`.
- » The `HxPortColorList::isTransparent()` method signature is changed to return boolean type instead of integer type.
- » The `HxPortColorList::isContinuousMode()` method is renamed to `HxPortColorList::isContinuousModeEnabled()`.
- » The `HxPortColorList::getState()` virtual method signature is changed to use `QString` type instead of



McString type.

- » The HxPortColorList::parts member variable is removed.
- » The HxPortColorList::alphaEnabled member variable is removed.
- » The HxPortColorList::continuous member variable is removed.
- » The HxPortColorList::Part member variable is removed.
- » The HxPortColorList::commonInit() method is removed.

Changes to HxPortDirectory (Package hxcore)

- » The HxPortDirectory::getValue() method signature is changed to return QString type instead of McString type.
- » The HxPortDirectory::setValue() method signature is changed to use QString type instead of McString type.
- » The HxPortDirectory::m_name member variable is removed.
- » The HxPortDirectory::button member variable is removed.
- » The HxPortDirectory::lineEdit member variable is removed.
- » The HxPortDirectory::getState() virtual method signature is changed to use QString type instead of McString type.

Changes to HxPortDoIt (Package hxcore)

- » The HxPortDoIt::hideApplyStopButtons() method is renamed to HxPortDoIt::setHideApplyStopButtons().
- » The HxPortDoIt::commonInit() method is removed.

Changes to HxPortFilename (Package hxcore)

- » The HxPortFilename::execute() method signature is changed to use QString type instead of McString type.
- » The HxPortFilename::getFilename() method signature is changed to use QString type instead of McString type.
- » The HxPortFilename::getFileType() method signature is changed to use QString type instead of McString type.
- » The HxPortFilename::setFilename() method signature is changed to use QString type instead of McString type.
- » The HxPortFilename::setFileNames() method signature is changed to use QString type instead of McString type.
- » The HxPortFilename::getValue() method signature is changed to return QString type instead of McString type.



- » The `HxPortFilename::setValue()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxPortFilename::findFileExt()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxPortFilename::internalSetFilename()` method is removed.
- » The `HxPortFilename::getState()` virtual method signature is changed to use `QString` type instead of `McString` type.
- » The `HxPortFilename::fileTypes` member variable is removed.
- » The `HxPortFilename::formats` member variable is removed.
- » The `HxPortFilename::names` member variable is removed.
- » The `HxPortFilename::fn` member variable is removed.
- » The `HxPortFilename::ft` member variable is removed.
- » The `HxPortFilename::mode` member variable is removed.
- » The `HxPortFilename::button` member variable is removed.
- » The `HxPortFilename::dialog` member variable is removed.
- » The `HxPortFilename::lineEdit` member variable is removed.
- » The `HxPortFilename::FileType` member variable is removed.

Changes to `HxPortFloatSlider` (Package `hxcore`)

- » The `HxPortFloatSlider::setButtons()` method is renamed to `HxPortFloatSlider::setArrowButtons()`.
- » The `HxPortFloatSlider::hasButtons()` method is renamed to `HxPortFloatSlider::hasArrowButtonsEnabled()`.
- » The `HxPortFloatSlider::hasEditButton()` method is renamed to `HxPortFloatSlider::hasEditButtonEnabled()`.
- » The `HxPortFloatSlider::setDiscrete()` method is renamed to `HxPortFloatSlider::setDiscreteMode()`.
- » The `HxPortFloatSlider::isDiscreteMode()` method is renamed to `HxPortFloatSlider::isDiscreteModeEnabled()`.
- » The `HxPortFloatSlider::hasSubRangeButtons()` method is renamed to `HxPortFloatSlider::hasSubRangeButtonsEnabled()`.
- » The `HxPortFloatSlider::getFormat()` method signature is changed to return `QString` type instead of `McString` type.
- » The `HxPortFloatSlider::setFormat()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxPortFloatSlider::getState()` virtual method signature is changed to use `QString` type instead of `McString` type.



- » The HxPortFloatSlider::getShortState() virtual method signature is changed to use QString type instead of McString type.
- » The HxPortFloatSlider::format member variable is renamed to HxPortFloatSlider::m_format.
- » The HxPortFloatSlider::configureAction member variable is removed.
- » The HxPortFloatSlider::increment member variable is renamed to HxPortFloatSlider::m_increment.
- » The HxPortFloatSlider::value member variable is renamed to HxPortFloatSlider::m_value.
- » The HxPortFloatSlider::slider member variable is removed.
- » The HxPortFloatSlider::maxValue member variable is removed.
- » The HxPortFloatSlider::minValue member variable is removed.
- » The HxPortFloatSlider::subValueMax member variable is removed.
- » The HxPortFloatSlider::subValueMin member variable is removed.
- » The HxPortFloatSlider::subValueValid member variable is removed.
- » The HxPortFloatSlider::init() method is removed.
- » The HxPortFloatSlider::updateNewFlagOnMouseButtonRelease() method is removed.

Changes to HxPortFloatTextN (Package hxcore)

- » The HxPortFloatTextN::getFormat() method signature is changed to use QString type instead of McString type.
- » The HxPortFloatTextN::parts member variable is renamed to HxPortFloatTextN::m_parts.
- » The HxPortFloatTextN::m_virtualSliderStep member variable is removed.
- » The HxPortFloatTextN::getState() virtual method signature is changed to use QString type instead of McString type.
- » The HxPortFloatTextN::commonInit() method is removed.
- » The HxPortFloatTextN::createWidget() method is removed.

Changes to HxPortFontSelection (Package hxcore)

- » The HxPortFontSelection::getFontDescription() method signature is changed to use QString type instead of McString type.
- » The HxPortFontSelection::getState() virtual method signature is changed to use QString type instead of McString type.
- » The HxPortFontSelection::m_fontColor member variable is removed.
- » The HxPortFontSelection::m_font member variable is removed.
- » The HxPortFontSelection::m_buttonText member variable is removed.



- » The HxPortFontSelection::m_fontLabel member variable is removed.
- » The HxPortFontSelection::m_fontSelectBtn member variable is removed.
- » The HxPortFontSelection::m_colorBtn member variable is removed.
- » The HxPortFontSelection::m_colorBtnVisible member variable is removed.
- » The HxPortFontSelection::adjustButtonSizeToContents() method is removed.
- » The HxPortFontSelection::fontChanged() method is removed.
- » The HxPortFontSelection::updateFontLabel() method is removed.

Changes to HxPortFontSize (Package hxcore)

- » The HxPortFontSize::m_fontIncrement member variable is removed.
- » The HxPortFontSize::m_fontSizeMax member variable is removed.
- » The HxPortFontSize::m_fontSizeMin member variable is removed.
- » The HxPortFontSize::getState() virtual method signature is changed to use QString type instead of McString type.

Changes to HxPortGeneric (Package hxcore)

- » The HxPortGeneric::insertRadioGroup() method signature is changed to use QStringList type instead of QVector < QString > type.
- » The HxPortGeneric::insertComboBox() method signature is changed to use QStringList type instead of QVector < QString > type.
- » The HxPortGeneric::items member variable is renamed to HxPortGeneric::m_items.
- » The HxPortGeneric::m_itemsIds member variable is removed.
- » The HxPortGeneric::itemsLayout member variable is removed.
- » The HxPortGeneric::checkItemsIds() method is removed.
- » The HxPortGeneric::commonInit() method is removed.
- » The HxPortGeneric::getSensitivity() method signature is changed to return boolean type instead of integer type.
- » The HxPortGeneric::visible() method signature is changed to return boolean type instead of integer type.
- » The HxPortGeneric::getState() virtual method signature is changed to use QString type instead of McString type.
- » The HxPortGeneric::insertFloatText() method signature is changed to use QString type instead of char* type.

Changes to HxPortGenericComboBox (Package hxcore)



» The HxPortGenericComboBox::labels struct member type is changed to use QStringList instead of QVector < QString >.

Changes to HxPortGenericFloatText (Package hxcore)

- » The HxPortGenericFloatText::format struct member type is changed to use QString instead of McString.
- » The HxPortGenericFloatText::setFormat() struct member signature is changed to use QString type instead of McString type.

Changes to HxPortGenericRadioGroup (Package hxcore)

- » The HxPortGenericRadioGroup::labels struct member type is changed to use QStringList instead of QVector < QString >.

Changes to HxPortInfo (Package hxcore)

- » The HxPortInfo::getValue() method signature is changed to return QString type instead of McString type.
- » The HxPortInfo::setValue() method signature is changed to use QString type instead of McString type.
- » The HxPortInfo::value member variable is removed.
- » The HxPortInfo::label member variable is removed.
- » The HxPortInfo::m_consideredAsInfoTag member variable is removed.

Changes to HxPortIntSlider (Package hxcore)

- » The HxPortIntSlider::floatToInt() method is removed.

Changes to HxPortIntTextN (Package hxcore)

- » The HxPortIntTextN::s_maxIntValueAllowed member variable is removed.
- » The HxPortIntTextN::s_minIntValueAllowed member variable is removed.
- » The HxPortIntTextN::getIntCastValue() method is removed.

Changes to HxPortModuleSwitch (Package hxcore)

- » The HxPortModuleSwitch::getState() virtual method signature is changed to use QString type instead of McString type.
- » The HxPortModuleSwitch::setState() virtual method signature is changed to use QString type instead of McString type.
- » The HxPortModuleSwitch::createWidget() virtual method is removed.
- » The HxPortModuleSwitch::guiCallback() virtual method is removed.



Changes to HxPortMultiMenu (Package hxcore)

- » The HxPortMultiMenu::data member variable is removed.
- » The HxPortMultiMenu::getMenuSensitivity() method signature is changed to return boolean type instead of integer type.
- » The HxPortMultiMenu::getSensitivity() method signature is changed to return boolean type instead of integer type.
- » The HxPortMultiMenu::setValue() method signature is changed to return boolean type instead of integer type.
- » The HxPortMultiMenu::getState() virtual method signature is changed to use QString type instead of McString type.
- » The HxPortMultiMenu::setState() virtual method signature is changed to use QString type instead of McString type.
- » The HxPortMultiMenu::commonInit() method is removed.
- » The HxPortMultiMenu::initWidget() method is removed.
- » The HxPortMultiMenu::initWidgets() method is removed.
- » The HxPortMultiMenu::setMenuSensitivity() method signature is changed to use boolean type instead of integer type.
- » The HxPortMultiMenu::setSensitivity() method signature is changed to use boolean type instead of integer type.

Changes to HxPortMultiOptions (Package hxcore)

- » The HxPortMultiOptions::setItemEnable() method is renamed to HxPortMultiOptions::setItemEnabled().
- » The HxPortMultiOptions::isItemEnable() method is renamed to HxPortMultiOptions::isItemEnabled().
- » The HxPortMultiOptions::addItem() method signature is changed to use QString type instead of McString type.
- » The HxPortMultiOptions::NewFlagRole member variable is removed.
- » The HxPortMultiOptions::SelectedFlagRole member variable is removed.
- » The HxPortMultiOptions::isItemEnable() method is renamed to HxPortMultiOptions::isItemEnabled().
- » The HxPortMultiOptions::getState() virtual method signature is changed to use QString type instead of McString type.
- » The HxPortMultiOptions::setItemEnable() method is renamed to HxPortMultiOptions::setItemEnabled().
- » The HxPortMultiOptions::addItem() method signature is changed to use QString type instead of McString type.



Changes to HxPortOnOff (Package hxcore)

- » The HxPortOnOff::m_labelOnOff member variable is removed.
- » The HxPortOnOff::m_switchOnOff member variable is removed.
- » The HxPortOnOff::m_value member variable is removed.
- » The HxPortOnOff::getState() virtual method signature is changed to use QString type instead of McString type.
- » The HxPortOnOff::init() method is removed.

Changes to HxPortRadioBox (Package hxcore)

- » The HxPortRadioBox::radioList member variable is removed.
- » The HxPortRadioBox::labels member variable is removed.
- » The HxPortRadioBox::getSensitivity() method signature is changed to return boolean type instead of integer type.
- » The HxPortRadioBox::index member variable is removed.
- » The HxPortRadioBox::nItems member variable is removed.
- » The HxPortRadioBox::m_sensitivity member variable is removed.
- » The HxPortRadioBox::getState() virtual method signature is changed to use QString type instead of McString type.
- » The HxPortRadioBox::commonInit() method is removed.
- » The HxPortRadioBox::initWidgets() method is removed.
- » The HxPortRadioBox::setSensitivity() method signature is changed to use boolean type instead of integer type.

Changes to HxPortRangeSlider (Package hxcore)

- » The HxPortRangeSlider::enableDisplayedHistogram() method is renamed to HxPortRangeSlider::setDisplayHistogramEnabled().
- » The HxPortRangeSlider::setButtons() method is renamed to HxPortRangeSlider::setArrowButtons().
- » The HxPortRangeSlider::hasButtons() method is renamed to HxPortRangeSlider::hasArrowButtonsEnabled().
- » The HxPortRangeSlider::hasEditButton() method is renamed to HxPortRangeSlider::hasEditButtonEnabled().
- » The HxPortRangeSlider::setDiscrete() method is renamed to HxPortRangeSlider::setDiscreteMode().
- » The HxPortRangeSlider::isDiscreteMode() method is renamed to HxPortRangeSlider::isDiscreteModeEnabled().



- » The `HxPortRangeSlider::hasSubRangeButtons()` method is renamed to `HxPortRangeSlider::hasSubRangeButtonsEnabled()`.
- » The `HxPortRangeSlider::setEditButton()` method signature is changed to use boolean type instead of integer type.
- » The `HxPortRangeSlider::m_representation` member variable is removed.
- » The `HxPortRangeSlider::m_newFlags` member variable is removed.
- » The `HxPortRangeSlider::bufferedHistogramEntries` member variable is removed.
- » The `HxPortRangeSlider::slider` member variable is removed.
- » The `HxPortRangeSlider::m_histogramBackgroundUpdater` member variable is removed.
- » The `HxPortRangeSlider::isDisplayedHistogramEnabled` member variable is removed.
- » The `HxPortRangeSlider::m_useHeuristics` member variable is removed.
- » The `HxPortRangeSlider::m_zoomAction` member variable is removed.
- » The `HxPortRangeSlider::bufferedClipMax` member variable is removed.
- » The `HxPortRangeSlider::bufferedClipMin` member variable is removed.
- » The `HxPortRangeSlider::increment` member variable is removed.
- » The `HxPortRangeSlider::maxValue` member variable is removed.
- » The `HxPortRangeSlider::minValue` member variable is removed.
- » The `HxPortRangeSlider::subValueMax` member variable is removed.
- » The `HxPortRangeSlider::subValueMin` member variable is removed.
- » The `HxPortRangeSlider::value_h` member variable is removed.
- » The `HxPortRangeSlider::value_l` member variable is removed.
- » The `HxPortRangeSlider::windowMax` member variable is removed.
- » The `HxPortRangeSlider::windowMaxDefault` member variable is removed.
- » The `HxPortRangeSlider::windowMin` member variable is removed.
- » The `HxPortRangeSlider::windowMinDefault` member variable is removed.
- » The `HxPortRangeSlider::bufferedSensitivity` member variable is removed.
- » The `HxPortRangeSlider::m_numBins` member variable is removed.
- » The `HxPortRangeSlider::subValueValid` member variable is removed.
- » The `HxPortRangeSlider::autoHideSliderFlag` member variable is removed.
- » The `HxPortRangeSlider::discreteFlag` member variable is removed.
- » The `HxPortRangeSlider::nColumns` member variable is removed.



- » The `HxPortRangeSlider::showArrows` member variable is removed.
- » The `HxPortRangeSlider::showEditButton` member variable is removed.
- » The `HxPortRangeSlider::sliderWidth` member variable is removed.
- » The `HxPortRangeSlider::subRangeFlag` member variable is removed.
- » The `HxPortRangeSlider::trackingFlag` member variable is removed.
- » The `HxPortRangeSlider::init()` method is removed.
- » The `HxPortRangeSlider::popupMenu()` method is removed.
- » The `HxPortRangeSlider::getState()` virtual method signature is changed to use `QString` type instead of `McString` type.
- » The `HxPortRangeSlider::getShortState()` virtual method signature is changed to use `QString` type instead of `McString` type.

Changes to `HxPortRangeTplSlider` (Package `hxcore`)

- » The `HxPortRangeTplSlider::m_bufferedHistogramEntries` member variable is removed.
- » The `HxPortRangeTplSlider::m_histogramBackgroundUpdater` member variable is removed.

Changes to `HxPortTabBar` (Package `hxcore`)

- » The `HxPortTabBar::setSensitivity()` method signature is changed to use `boolean` type instead of `integer` type.
- » The `HxPortTabBar::getSensitivity()` method signature is changed to return `boolean` type instead of `integer` type.
- » The `HxPortTabBar::portAdd()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxPortTabBar::portRemove()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxPortTabBar::getState()` virtual method signature is changed to use `QString` type instead of `McString` type.
- » The `HxPortTabBar::getShortState()` virtual method signature is changed to use `QString` type instead of `McString` type.
- » The `HxPortTabBar::mTabs` member variable is removed.
- » The `HxPortTabBar::mPorts` member variable is removed.
- » The `HxPortTabBar::mQBar` member variable is removed.
- » The `HxPortTabBar::mCurrTabIndex` member variable is removed.
- » The `HxPortTabBar::commonInit()` method is removed.
- » The `HxPortTabBar::updateVisibility()` method is removed.



Changes to HxPortText (Package hxcore)

- » The HxPortText::value member variable is removed.
- » The HxPortText::lineEdit member variable is removed.
- » The HxPortText::nColumns member variable is removed.
- » The HxPortText::sensitivity member variable is removed.
- » The HxPortText::getState() virtual method signature is changed to use QString type instead of McString type.
- » The HxPortText::commonInit() method is removed.

Changes to HxPortTextEdit (Package hxcore)

- » The HxPortTextEdit::selection member variable is removed.
- » The HxPortTextEdit::value member variable is removed.
- » The HxPortTextEdit::textEdit member variable is removed.
- » The HxPortTextEdit::nColumns member variable is removed.
- » The HxPortTextEdit::nRows member variable is removed.
- » The HxPortTextEdit::sensitivity member variable is removed.
- » The HxPortTextEdit::getState() virtual method signature is changed to use QString type instead of McString type.
- » The HxPortTextEdit::commonInit() method is removed.

Changes to HxPortToggleList (Package hxcore)

- » The HxPortToggleList::getValue() method signature is changed to return boolean type instead of integer type.
- » The HxPortToggleList::setValue() method signature is changed to use boolean type instead of integer type.
- » The HxPortToggleList::getSensitivity() method signature is changed to return boolean type instead of integer type.
- » The HxPortToggleList::setSensitivity() method signature is changed to use boolean type instead of integer type.
- » The HxPortToggleList::setValueAndMask() method signature is changed to use boolean type instead of integer type.
- » The HxPortToggleList::setMask() method signature is changed to use boolean type instead of integer type.
- » The HxPortToggleList::getMask() method signature is changed to return boolean type instead of integer type.



type.

- » The `HxPortToggleList::setIsTristate()` method signature is changed to use boolean type instead of integer type.
- » The `HxPortToggleList::getIsTristate()` method signature is changed to return boolean type instead of integer type.
- » The `HxPortToggleList::isTristate` member variable is removed.
- » The `HxPortToggleList::isVisibleList` member variable is removed.
- » The `HxPortToggleList::mask` member variable is removed.
- » The `HxPortToggleList::newFlags` member variable is removed.
- » The `HxPortToggleList::sensitivity` member variable is removed.
- » The `HxPortToggleList::state` member variable is removed.
- » The `HxPortToggleList::toggleList` member variable is removed.
- » The `HxPortToggleList::labels` member variable is removed.
- » The `HxPortToggleList::nItems` member variable is removed.
- » The `HxPortToggleList::setState()` virtual method signature is changed to use `QString` type instead of `McString` type.
- » The `HxPortToggleList::getState()` virtual method signature is changed to use `QString` type instead of `McString` type.

Changes to `HxPortTypeInfo` (Package `hxcare`)

- » The `HxPortTypeInfo::canCreateInstanceWithObject()` method signature is changed to return boolean type instead of integer type.
- » The `HxPortTypeInfo::canCreateInstanceWithEditor()` method signature is changed to return boolean type instead of integer type.
- » The `HxPortTypeInfo::m_fnInstanciatorWithEditor` member variable is removed.
- » The `HxPortTypeInfo::m_fnInstanciatorWithObject` member variable is removed.
- » The `HxPortTypeInfo::fromName()` method is renamed to `HxPortTypeInfo::getTypeFromName()`.
- » The `HxPortTypeInfo::allTypes()` method is removed.

Changes to `HxPreferences` (Package `hxcare`)

- » The `HxPreferences::compassName` member variable type is changed to use `QString` instead of `McString`.
- » The `HxPreferences::molExplicitAttributes` member variable type is changed to use `QString` instead of `McString`.
- » The `HxPreferences::ldaCompressionType` member variable type is changed to use `QString` instead of



McString.

- » The HxPreferences::seg3dDrawStyle member variable type is changed to use QString instead of McString.
- » The HxPreferences::segMagicWandSettings member variable type is changed to use QString instead of McString.
- » The HxPreferences::segOrientationAndFlip member variable type is changed to use QString instead of McString.
- » The HxPreferences::preset member variable type is changed to use QString instead of McString.
- » The HxPreferences::matDataBase member variable type is changed to use QString instead of McString.
- » The HxPreferences::treeviewMode member variable type is changed to use QString instead of McString.
- » The HxPreferences::dicomLoadOptions member variable type is changed to use QString instead of McString.
- » The HxPreferences::seismicLastFaultSticksFormat member variable type is changed to use QString instead of McString.
- » The HxPreferences::seismicLastFaultSurfaceFormat member variable type is changed to use QString instead of McString.
- » The HxPreferences::seismicLastHorizonFormat member variable type is changed to use QString instead of McString.
- » The HxPreferences::teamWorkLastServer member variable type is changed to use QString instead of McString.
- » The HxPreferences::teamWorkLastSessionName member variable type is changed to use QString instead of McString.
- » The HxPreferences::teamWorkLastAlias member variable type is changed to use QString instead of McString.
- » The HxPreferences::vrConfigsPath member variable type is changed to use QString instead of McString.
- » The HxPreferences::localDir member variable type is changed to use QString instead of McString.
- » The HxPreferences::demoDir member variable type is changed to use QString instead of McString.
- » The HxPreferences::customPreference member variable type is changed to use QString instead of McString.
- » The HxPreferences::provenanceStandardDir member variable type is changed to use QString instead of McString.
- » The HxPreferences::language member variable type is changed to use QString instead of McString.
- » The HxPreferences::m_saveProjectPolicy member variable type is changed to use QString instead of McString.

Changes to HxProgressInterface (Package hxcore)



- » The `HxProgressInterface::isBusy()` method signature is changed to return boolean type instead of integer type.
- » The `HxProgressInterface::wasInterrupted()` virtual method signature is changed to return boolean type instead of integer type.
- » The `HxProgressInterface::progressStep()` virtual method signature is changed to return boolean type instead of integer type.

Changes to HxResource (Package hxcore)

- » The `HxResource::getRootDir()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxResource::getDataDir()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxResource::getLocalDir()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxResource::getVersion()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxResource::getExtenderProcs()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxResource::getExecPath()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxResource::getMacroDir()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxResource::getNetworkDriveDir()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxResource::locateFile()` method signature is changed to return boolean type instead of integer type.
- » The `HxResource::getObjectFactoryTable()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxResource::disableObjectsOfDSO()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxResource::disableSimpleClassesOfDSO()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxResource::getSimpleClassTable()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxResource::getSimpleClassDSOTable()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxResource::getTclWrapperClassNameTable()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxResource::getLibVersion()` method signature is changed to use `QString` type instead of `McString` type.



type.

- » The `HxResource::getEditorInfoFromClassName()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxResource::canShowMainWindow()` method signature is changed to return `boolean` type instead of `integer` type.
- » The `HxResource::getArchString()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxResource::getShortArchString()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxResource::getDemoDir()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxResource::noBorder()` method is removed.
- » The `HxResource::noGui()` method is removed.
- » The `HxResource::readImage()` method signature is changed to return `boolean` type instead of `integer` type.
- » The `HxResource::readQImage()` method signature is changed to return `boolean` type instead of `integer` type.
- » The `HxResource::writeImage()` method signature is changed to return `boolean` type instead of `integer` type.
- » The `HxResource::writeQImage()` method signature is changed to return `boolean` type instead of `integer` type.
- » The `HxResource::setNoBorder()` method is removed.
- » The `HxResource::getDisplayName()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxResource::getDataDirs()` method signature is changed to return `QStringList` type instead of `McDArray < McString >` type.

Changes to `HxSettingsMgr` (Package `hxcore`)

- » The `HxSettingsMgr::setGeometry()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxSettingsMgr::getGeometry()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxSettingsMgr::setCustom()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxSettingsMgr::getCustom()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxSettingsMgr::removeCustom()` method signature is changed to use `QString` type instead of



McString type.

- » The `HxSettingsMgr::loadPreferences()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxSettingsMgr::savePreferences()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxSettingsMgr::setActiveEdition()` method signature is changed to use `QString` type instead of `McString` type.
- » The `HxSettingsMgr::mNotifier` member variable is changed to protected and `HxSettingsMgr::getNotifier()` accessor(s) (is/are) added.

Changes to `HxSpatialData` (Package `hxc`)

- » The `HxSpatialData::getWorldAlignedBoundingBox()` method is removed.
- » The `HxSpatialData::getBoundingBoxCenter()` method is removed.
- » The `HxSpatialData::getBoundingBoxOrigin()` method is removed.
- » The `HxSpatialData::getBoundingBoxSize()` method is removed.
- » The `HxSpatialData::getMemSize()` virtual method signature is changed to use virtual `mcint64` `getMemSize (const McBox3f &box, bool *sizeOk) const` instead of virtual `bool` `getMemSize (mcuint64 &size, const McBox3f &box)`.
- » The `HxSpatialData::getUndefinedValue()` method signature is changed to return `boolean` type instead of `integer` type.
- » The `HxSpatialData::getTransformedBoundingBox()` method is removed.
- » The `HxSpatialData::parseRangeParameters()` method is removed.
- » The `HxSpatialData::rotate()` method signature is changed to use `boolean` type instead of `integer` type.
- » The `HxSpatialData::scale()` method signature is changed to use `boolean` type instead of `integer` type.
- » The `HxSpatialData::translate()` method signature is changed to use `boolean` type instead of `integer` type.

Changes to `HxVertexSet` (Package `hxc`)

- » The `HxVertexSet::getCoords()` virtual method signature is changed to return `McArray < McVec3f >` type instead of `McVec3f` type.
- » The `HxVertexSet::getNumPoints()` method is removed.

Changes to `HxViewBase` (Package `hxc`)

- » The `HxViewBase::getPolyLine()` method is renamed to `HxViewBase::polyLine()`.
- » The `HxViewBase::polyLine` member variable is renamed to `HxViewBase::m_polyLine`.
- » The `HxViewBase::soDrawStyle` member variable is renamed to `HxViewBase::m_soDrawStyle`.



- » The HxViewBase::soEvent member variable is renamed to HxViewBase::m_soEvent.
- » The HxViewBase::soMaterial member variable is renamed to HxViewBase::m_soMaterial.
- » The HxViewBase::soRoot member variable is renamed to HxViewBase::m_soRoot.
- » The HxViewBase::soSurface member variable is removed.
- » The HxViewBase::dragger member variable is renamed to HxViewBase::m_dragger.
- » The HxViewBase::getPolygonOffsetMode() method is removed.
- » The HxViewBase::m_polygonOffsetMode member variable is removed.
- » The HxViewBase::maxScaleX member variable is removed.
- » The HxViewBase::maxScaleY member variable is removed.
- » The HxViewBase::maxScaleZ member variable is removed.
- » The HxViewBase::xMax member variable is removed.
- » The HxViewBase::xMin member variable is removed.
- » The HxViewBase::yMax member variable is removed.
- » The HxViewBase::yMin member variable is removed.
- » The HxViewBase::zMax member variable is removed.
- » The HxViewBase::zMin member variable is removed.
- » The HxViewBase::handlePseudoColor() method signature is changed to return boolean type instead of integer type.
- » The HxViewBase::handlePseudoColorSurface() method signature is changed to return boolean type instead of integer type.
- » The HxViewBase::handlePseudoColorTetra() method signature is changed to return boolean type instead of integer type.
- » The HxViewBase::isDragging member variable is removed.
- » The HxViewBase::addText() method is removed.
- » The HxViewBase::clearText() method is removed.
- » The HxViewBase::getSelectedTriangles() method is removed.
- » The HxViewBase::initBox() method signature is changed to use McBox3f type instead of float [6] type.
- » The HxViewBase::set3DTextMode() method is removed.
- » The HxViewBase::setLegend() method is removed.
- » The HxViewBase::setPolygonOffsetMode() method is removed.
- » The HxViewBase::setTextSize() method is removed.



Changes to HxViewer (Package hxcore)

- » The HxViewer::isInteractive() method signature is changed to return boolean type instead of integer type.
- » The HxViewer::viewX() method signature is changed to use boolean type instead of integer type.
- » The HxViewer::viewY() method signature is changed to use boolean type instead of integer type.
- » The HxViewer::viewZ() method signature is changed to use boolean type instead of integer type.
- » The HxViewer::hasStereoCapability() method signature is changed to return boolean type instead of integer type.
- » The HxViewer::isAnimating() method signature is changed to return boolean type instead of integer type.
- » The HxViewer::setBackgroundImage() method signature is changed to use boolean type instead of integer type.
- » The HxViewer::setStereoBackgroundImage() method signature is changed to use boolean type instead of integer type.
- » The HxViewer::setPosition() method signature is changed to use SbVec2s type instead of integer type.
- » The HxViewer::getBackgroundImage() method signature is changed to use QString type instead of char* type.
- » The HxViewer::noGuiSnapshot() method signature is changed to use boolean type instead of integer type.
- » The HxViewer::getWidget() method is removed.
- » The HxViewer::getPanel() method is removed.
- » The HxViewer::isFsaSupported() method is removed.
- » The HxViewer::changeWidgets() method is removed.
- » The HxViewer::setColorMap() method is removed.
- » The HxViewer::setDecoration() method is removed.
- » The HxViewer::setFullSceneAntialiasing() method is removed.
- » The HxViewer::setOverlayColorMap() method is removed.
- » The HxViewer::setPanel() method is removed.

Changes to HxViewerBase (Package hxcore)

- » The HxViewerBase::isVisible() virtual method signature is changed to return boolean type instead of integer type.
- » The HxViewerBase::getPanelBase() method is removed.

Changes to HxViewerPanelBase (Package hxcore)



» The `HxViewerPanelBase::getToolBarTitle()` method signature is changed to use `QString` type instead of `McString` type.

Changes to `HxViewerTool` (Package `hxcore`)

- » The `HxViewerTool::shortcut()` method signature is changed to use `QKeySequence` `getShortcut ()` const instead of `McString` `shortcut ()` const.
- » The `HxViewerTool::text()` method signature is changed to use `QString` `getText ()` const instead of `McString` `text ()` const.
- » The `HxViewerTool::action()` method is removed.
- » The `HxViewerTool::toolTip()` method is renamed to `HxViewerTool::getToolTip()`.
- » The `HxViewerTool::NO_MODIFIER` enum is removed.
- » The `HxViewerTool::SHIFT_MODIFIER` enum is removed.
- » The `HxViewerTool::CONTROL_MODIFIER` enum is removed.
- » The `HxViewerTool::ALT_MODIFIER` enum is removed.
- » The `HxViewerTool::onActiveViewerChanged()` method is removed.
- » The `HxViewerTool::updateUI()` method is removed.
- » The `HxViewerTool::setShortcut()` method signature is changed to use `QKeySequence` type instead of `char*` type.
- » The `HxViewerTool::setText()` method signature is changed to use `QString` type instead of `char*` type.

Changes to `QxViewer` (Package `hxcore`)

- » The `QxViewer::hasStereoCapability()` method signature is changed to return `boolean` type instead of `integer` type.
- » The `QxViewer::isAnimating()` method signature is changed to return `boolean` type instead of `integer` type.
- » The `QxViewer::setBackgroundImage()` method signature is changed to use `boolean` type instead of `integer` type.
- » The `QxViewer::setStereoBackgroundImage()` method signature is changed to use `boolean` type instead of `integer` type.
- » The `QxViewer::setPosition()` method signature is changed to use `SbVec2s` type instead of `integer` type.
- » The `QxViewer::getBackgroundImage()` method signature is changed to use `QString` type instead of `char*` type.
- » The `QxViewer::getButton()` method signature is changed to use `ViewButton` type instead of `integer` type.
- » The `QxViewer::enableDirectViz()` virtual method is removed.
- » The `QxViewer::setViewing()` virtual method signature is changed to use `SbBool` type instead of `boolean` type.



- » The `QxViewer::setCameraMode()` method signature is changed to use `CameraMode` type instead of integer type.
- » The `QxViewer::viewX()` method signature is changed to use boolean type instead of integer type.
- » The `QxViewer::viewY()` method signature is changed to use boolean type instead of integer type.
- » The `QxViewer::viewZ()` method signature is changed to use boolean type instead of integer type.
- » The `QxViewer::CAMERA_TRACKBALL` enum is removed.
- » The `QxViewer::COMPASS` enum is removed.
- » The `QxViewer::_animateCamera()` method is removed.
- » The `QxViewer::_lightDialog()` method is removed.
- » The `QxViewer::_rotateVD()` method is removed.
- » The `QxViewer::_snapshot()` method is removed.
- » The `QxViewer::_toggleFullScreen()` method is removed.
- » The `QxViewer::_viewX()` method is removed.
- » The `QxViewer::_viewY()` method is removed.
- » The `QxViewer::_viewZ()` method is removed.

Changes to `QxViewerPanel` (Package `hxcore`)

- » The `QxViewerPanel::registerViewer()` method signature is changed to use boolean type instead of integer type.
- » The `QxViewerPanel::seismicToolBarEnabled` member variable is renamed to `QxViewerPanel::QxViewerPanel::setSeismicToolBar()`.
- » The `QxViewerPanel::isVerticalSplit()` method is renamed to `QxViewerPanel::isVerticalSplitEnabled()`.
- » The `QxViewerPanel::m_reconfigureLock` member variable is changed to private and `QxViewerPanel::increaseReconfigureLock()`, `QxViewerPanel::decreaseReconfigureLock()`, `QxViewerPanel::hasReconfigureLock()` accessor(s) (is/are) added.
- » The `QxViewerPanel::s_blockNavigationTools` member variable is changed to private and `QxViewerPanel::setBlockNavigationTools()`, `QxViewerPanel::isBlockNavigationToolsEnabled()` accessor(s) (is/are) added.
- » The `QxViewerPanel::getViewerObjectVisibilityAction()` method is removed.
- » The `QxViewerPanel::reservoirToolBarEnabled` member variable is removed.
- » The `QxViewerPanel::createExtraToolBar()` method is removed.
- » The `QxViewerPanel::createLayoutToolBar()` method is removed.
- » The `QxViewerPanel::createOrientationToolBar()` method is removed.



- » The `QxViewerPanel::createViewingToolBar()` method is removed.
- » The `QxViewerPanel::createZScaleToolBar()` method is removed.

Changes to `HxExternalData` (Package `hxexternaldata`)

- » The `HxExternalData::thePrimType` member variable is removed.
- » The `HxExternalData::driverName` member variable is removed.
- » The `HxExternalData::dims()` method is renamed to `HxExternalData::getDims()`.
- » The `HxExternalData::bbox` member variable is removed.
- » The `HxExternalData::nDataVar()` method is renamed to `HxExternalData::getNDataVar()`.
- » The `HxExternalData::theDims` member variable is removed.
- » The `HxExternalData::theNDataVar` member variable is removed.
- » The `HxExternalData::write()` method is removed.
- » The `HxExternalData::getBlock()` virtual method signature is changed to return boolean type instead of integer type.
- » The `HxExternalData::getBoundingBox()` method is removed.
- » The `HxExternalData::setBoundingBox()` method signature is changed to use `McBox3f` type instead of `float [6]` type.

Changes to `HxExternalData::BlockRequest` (Package `hxexternaldata`)

- » The `HxExternalData::BlockRequest::blockOrigin` member variable is changed to private and `HxExternalData::BlockRequest::getBlockOrigin()` accessor(s) (is/are) added.
- » The `HxExternalData::BlockRequest::blockOriginSubvoxel` member variable is changed to private and `HxExternalData::BlockRequest::getBlockOriginSubvoxel()` accessor(s) (is/are) added.
- » The `HxExternalData::BlockRequest::blockSize` member variable is changed to private and `HxExternalData::BlockRequest::getBlockSize()` accessor(s) (is/are) added.
- » The `HxExternalData::BlockRequest::dataOrigin` member variable is changed to private and `HxExternalData::BlockRequest::getDataOrigin()` accessor(s) (is/are) added.
- » The `HxExternalData::BlockRequest::dataOriginSubvoxel` member variable is changed to private and `HxExternalData::BlockRequest::getDataOriginSubvoxel()` accessor(s) (is/are) added.
- » The `HxExternalData::BlockRequest::dataSize` member variable is changed to private and `HxExternalData::BlockRequest::getDataSize()` accessor(s) (is/are) added.
- » The `HxExternalData::BlockRequest::subsampling` member variable is changed to private and `HxExternalData::BlockRequest::getSubsampling()` accessor(s) (is/are) added.
- » The `HxExternalData::BlockRequest::data` member variable is changed to private and `HxExternalData::BlockRequest::getData()` accessor(s) (is/are) added.



» The `HxExternalData::BlockRequest::timestep` member variable is removed.

Changes to `HxExternalDataToImageInterface` (Package `hxexternaldata`)

» The `HxExternalDataToImageInterface::getPrimType()` method is renamed to `HxExternalDataToImageInterface::primType()`.

Changes to `HxRawAsExternalData` (Package `hxexternaldata`)

» The `HxRawAsExternalData::files` member variable is removed.

» The `HxRawAsExternalData::littleEndian` member variable is changed to private and `HxRawAsExternalData::isLittleEndian()` accessor(s) (is/are) added.

» The `HxRawAsExternalData::filehandle` member variable is changed to private and `HxRawAsExternalData::getFileHandle()`, `HxRawAsExternalData::setFilehandle()` accessor(s) (is/are) added.

» The `HxRawAsExternalData::skipHeader` member variable is changed to private and `HxRawAsExternalData::getSkipHeaderSize()` accessor(s) (is/are) added.

» The `HxRawAsExternalData::getBlock()` method signature is changed to return boolean type instead of integer type.

Changes to `HxStackedSlicesAsExternalData` (Package `hxexternaldata`)

» The `HxStackedSlicesAsExternalData::HxStackedSlicesAsExternalData()` method signature is changed to use `QStringList` type instead of `McDArray < McFilename >` type.

» The `HxStackedSlicesAsExternalData::readStackedSlicesAsExternalData()` method signature is changed to return boolean type instead of integer type.

» The `HxStackedSlicesAsExternalData::getBlock()` method signature is changed to return boolean type instead of integer type.

» The `HxStackedSlicesAsExternalData::saveParameters()` method signature is changed to return boolean type instead of integer type.

Changes to `HexaGrid` (Package `hxfield`)

» The `HexaGrid::m_octreeMutex` member variable is removed.

» The `HexaGrid::initFromAmiraMesh` method signature is changed to use void `initFromAmiraMesh (AmiraMesh *m)` instead of `int initFromAmiraMesh (AmiraMesh *m)`.

» The `HexaGrid::numDuplicatedNodes` member variable is changed to private and `HexaGrid::getNumDuplicatedNodes()`, `HexaGrid::setNumDuplicatedNodes()` accessor(s) (is/are) added.

» The `HexaGrid::params` member variable is changed to private and `HexaGrid::params()` accessor(s) (is/are) added.

» The `HexaGrid::faces` member variable is changed to private and `HexaGrid::faces()` accessor(s) (is/are)



added.

- » The HexaGrid::hexas member variable is changed to private and HexaGrid::hexas() accessor(s) (is/are) added.
- » The HexaGrid::hexasPerPoint member variable is changed to private and HexaGrid::hexasPerPoint() accessor(s) (is/are) added.
- » The HexaGrid::points member variable is changed to private and HexaGrid::points() accessor(s) (is/are) added.
- » The HexaGrid::materialIds member variable is changed to private and HexaGrid::materialIds() accessor(s) (is/are) added.
- » The HexaGrid::m_centerPoints member variable is removed.

Changes to HxAnnaLocation3 (Package hxfield)

- » The HxAnnaLocation3::getLocation() method signature is changed to use integer type instead of size_t type.
- » The HxAnnaLocation3::mVarVals member variable is removed.
- » The HxAnnaLocation3::move() virtual method signature is changed to use virtual bool move (const McVec3f &pos) instead of virtual int move (float x , float y, float z).
- » The HxAnnaLocation3::set() virtual method signature is changed to use virtual bool set (const McVec3f &pos) instead of virtual int set (float x , float y, float z).

Changes to HxAnnaScalarField3 (Package hxfield)

Changes to HxAnnaVectorField3 (Package hxfield)

Changes to HxCoord3 (Package hxfield)

- » The HxCoord3::HxCoord3() method signature is changed to use HxCoord3 (const McDim31 &dims, HxCoordType coordType) instead of HxCoord3 (const int dims [3], HxCoordType c).
- » The HxCoord3::theCoordType member variable is renamed to HxCoord3::m_coordType.
- » The HxCoord3::dims() method is renamed to HxCoord3::getDims().
- » The HxCoord3::dimsInt() method is removed.
- » The HxCoord3::dimsLong() method is removed.
- » The HxCoord3::theDims32 member variable is removed.
- » The HxCoord3::theDims member variable is removed.
- » The HxCoord3::create() method signature is changed to use static HxCoord3 * create (const McDim31 &dims, HxCoordType coordType) instead of static HxCoord3 * create (const int dims [3], HxCoordType coordType).



- » The `HxCoord3::getBoundingBox()` virtual method signature is changed to use virtual `const McBox3f &getBoundingBox () const =0` instead of virtual `void getBoundingBox (float bbox[6]) const =0`.
- » The `HxCoord3::pos()` virtual method signature is changed to use virtual `McVec3f pos (const McVec3i &idx3) const =0` instead of virtual `void pos (int i, int j, int k, float *res) const =0`.
- » The `HxCoord3::resize()` virtual method signature is changed to use virtual `void resize (const McDim3i &dims)=0` instead of virtual `void resize (const int dims [3])=0`.
- » The `HxCoord3::setBoundingBox()` virtual method signature is changed to use virtual `void setBoundingBox (const McBox3f &bbox)=0` instead of virtual `void setBoundingBox (const float bbox[6])=0`.

Changes to HxEvalStandard (Package hxfield)

- » The `HxEvalStandard::field` member variable is renamed to `HxEvalStandard::m_field`.

Changes to HxField3 (Package hxfield)

- » The `HxField3::evalFloatFunc` member variable is removed.
- » The `HxField3::evalNativeFunc` member variable is removed.
- » The `HxField3::thePrimType` member variable is removed.
- » The `HxField3::theNDataVar` member variable is renamed to `HxField3::m_nDataVar`.
- » The `HxField3::touchMinMax()` virtual method is removed.
- » The `HxField3::evalFloatData` member variable is renamed to `HxField3::m_evalFloatData`.
- » The `HxField3::evalNativeData` member variable is renamed to `HxField3::m_evalNativeData`.
- » The `HxField3::resultBuffer` member variable is removed.
- » The `HxField3::touchMinMax()` method is renamed to `HxField3::setMinMaxTouch()`.
- » The `HxField3::evalFloatFromFloat()` method is removed.
- » The `HxField3::evalFloatFromDouble()` method is removed.
- » The `HxField3::evalFloatFromFloat()` method is removed.
- » The `HxField3::evalFloatFromInt16()` method is removed.
- » The `HxField3::evalFloatFromInt32()` method is removed.
- » The `HxField3::evalFloatFromInt64()` method is removed.
- » The `HxField3::evalFloatFromInt8()` method is removed.
- » The `HxField3::evalFloatFromUInt16()` method is removed.
- » The `HxField3::evalFloatFromUInt32()` method is removed.
- » The `HxField3::evalFloatFromUInt8()` method is removed.



» The `HxField3::evalNativeZero()` method is removed.

Changes to `HxHexaComplexScalarField3` (Package `hxfield`)

» The `HxHexaComplexScalarField3::data` member variable is changed to private and `HxHexaComplexScalarField3::hexaData()` accessor(s) (is/are) added.

Changes to `HxHexaComplexVectorField3` (Package `hxfield`)

» The `HxHexaComplexVectorField3::data` member variable is changed to private and `HxHexaComplexVectorField3::hexaData()` accessor(s) (is/are) added.

Changes to `HxHexaData` (Package `hxfield`)

- » The `HxHexaData::theEncoding` member variable is removed.
- » The `HxHexaData::portGrid` member variable is removed.
- » The `HxHexaData::theGrid` member variable is removed.
- » The `HxHexaData::m_hasUndefinedValue` member variable is removed.
- » The `HxHexaData::m_undefinedValue` member variable is removed.
- » The `HxHexaData::theData` member variable is removed.
- » The `HxHexaData::numNodes` member variable is removed.
- » The `HxHexaData::theNDataVar` member variable is removed.

Changes to `HxHexaField3` (Package `hxfield`)

» The `HxHexaField3::data` member variable is changed to private and `HxHexaField3::hexaData()` accessor(s) (is/are) added.

Changes to `HxHexaGrid` (Package `hxfield`)

- » The `HxHexaGrid::getNumPoints()` virtual method is removed.
- » The `HxHexaGrid::add()` method signature is changed to use boolean type instead of integer type.

Changes to `HxHexaScalarField3` (Package `hxfield`)

- » The `HxHexaScalarField3::data` member variable is changed to private and `HxHexaScalarField3::hexaData()` accessor(s) (is/are) added.
- » The `HxHexaScalarField3::PER_VERTEX` enum is removed.
- » The `HxHexaScalarField3::PER_HEX_A_VERTEX` enum is removed.
- » The `HxHexaScalarField3::PER_HEX_A` enum is removed.



Changes to HxHexaVectorField3 (Package hxfield)

- » The HxHexaVectorField3::data member variable is changed to private and HxHexaVectorField3::hexaData() accessor(s) (is/are) added.

Changes to HxLabelLattice3 (Package hxfield)

- » The HxLabelLattice3::HxLabelLattice3() method signature is changed to use McDim31 type instead of int [3] type.
- » The HxLabelLattice3::materials() method signature is changed to use boolean type instead of integer type.
- » The HxLabelLattice3::DATA_BASE_COLORS enum is renamed to HxLabelLattice3::DATABASE_COLORS.
- » The HxLabelLattice3::theWeights member variable is removed.
- » The HxLabelLattice3::swapDims() virtual method signature is changed to use virtual bool swapDims (const int didx[]) instead of virtual bool swapDims (const int *didx).
- » The HxLabelLattice3::theLabels member variable is removed.
- » The HxLabelLattice3::computeBBox() method signature is changed to return McBox3i type instead of void type.
- » The HxLabelLattice3::createMissingMaterials() method signature is changed to use void createMissingMaterials (HxParamBundle *matBundles, ColorsSource colorSource, bool bSilent=false) instead of void createMissingMaterials (ColorsSource colorSource).
- » The HxLabelLattice3::removeEmptyMaterials() method signature is changed to use boolean type instead of integer type.
- » The HxLabelLattice3::init() virtual method signature is changed to use virtual void init (const McDim31 &dims, int nDataVar , McPrimType pType, HxCoordType cType, void *data=NULL) instead of virtual bool init (const int dims [3], int nDataVar , McPrimType pType, HxCoordType cType, void *data=0).

Changes to HxLattice3 (Package hxfield)

- » The HxLattice3::evalLatFunc member variable is renamed to HxLattice3::m_evalLatFunc.
- » The HxLattice3::HxLattice3() method signature is changed to use McDim31 type instead of int [3] type.
- » The HxLattice3::myCoords member variable is renamed to HxLattice3::m_coords.
- » The HxLattice3::myPrimType member variable is removed.
- » The HxLattice3::init() method is removed.
- » The HxLattice3::resize() method is removed.
- » The HxLattice3::setPrimType() method is removed.
- » The HxLattice3::dims() method is renamed to HxLattice3::getDims().



- » The `HxLattice3::dimsInt()` method is removed.
- » The `HxLattice3::dimsLong()` method is removed.
- » The `HxLattice3::getUndefinedValue()` method signature is changed to use double `getUndefinedValue (bool *pHasUndefinedValue=NULL) const` instead of double `getUndefinedValue ()`.
- » The `HxLattice3::myBytesPerNode` member variable is removed.
- » The `HxLattice3::myDims32` member variable is removed.
- » The `HxLattice3::myNDDataVar` member variable is renamed to `HxLattice3::m_nbDataVar`.
- » The `HxLattice3::myDims` member variable is removed.
- » The `HxLattice3::nNodes()` method signature is changed to use `mcint64` type instead of `mculong` type.
- » The `HxLattice3::evalLatByteN()` method signature is changed to use `mcint64` type instead of `mculong` type.
- » The `HxLattice3::evalLatDoubleN()` method signature is changed to use `mcint64` type instead of `mculong` type.
- » The `HxLattice3::evalLatFloatN()` method signature is changed to use `mcint64` type instead of `mculong` type.
- » The `HxLattice3::evalLatInt32N()` method signature is changed to use `mcint64` type instead of `mculong` type.
- » The `HxLattice3::evalLatInt64N()` method signature is changed to use `mcint64` type instead of `mculong` type.
- » The `HxLattice3::evalLatShortN()` method signature is changed to use `mcint64` type instead of `mculong` type.
- » The `HxLattice3::evalLatUByteN()` method signature is changed to use `mcint64` type instead of `mculong` type.
- » The `HxLattice3::evalLatUInt32N()` method signature is changed to use `mcint64` type instead of `mculong` type.
- » The `HxLattice3::evalLatUShortN()` method signature is changed to use `mcint64` type instead of `mculong` type.
- » The `HxLattice3::fixFlatBoundingBox()` method is removed.
- » The `HxLattice3::flip()` virtual method signature is changed to return `void` type instead of `boolean` type.
- » The `HxLattice3::init()` virtual method signature is changed to use virtual `void init (const McDim31 &dims, int nDataVar , McPrimType pType, HxCoordType cType, void *data=NULL)` instead of virtual `bool init (const int dims [3], int nDataVar , McPrimType pType, HxCoordType cType, void *data=0)`.
- » The `HxLattice3::myDataPtr` member variable is removed.
- » The `HxLattice3::getSize()` method is removed.
- » The `HxLattice3::mapUInt16ToInt16()` method signature is changed to use `boolean` type instead of `integer` type.



- » The `HxLattice3::set()` method signature is changed to use `mcint64` type instead of `mculong` type.
- » The `HxLattice3::setBoundingBox()` method signature is changed to use `McBox3f` type instead of `float [6]` type.
- » The `HxLattice3::setContentInfo()` method is removed.

Changes to `HxLattice3ToImageInterface` (Package `hxfield`)

- » The `HxLattice3ToImageInterface::getPrimType()` virtual method is renamed to `HxLattice3ToImageInterface::primType()`.

Changes to `HxLoc3Hexa` (Package `hxfield`)

- » The `HxLoc3Hexa::move()` virtual method signature is changed to use virtual `bool move (const McVec3f &pos)` instead of virtual `int move (float x , float y, float z)`.
- » The `HxLoc3Hexa::set()` virtual method signature is changed to use virtual `bool set (const McVec3f &pos)` instead of virtual `int set (float x , float y, float z)`.
- » The `HxLoc3Hexa::idx` member variable is changed to private and `HxLoc3Hexa::getIdx()` accessor(s) (is/are) added.

Changes to `HxLoc3Tetra` (Package `hxfield`)

- » The `HxLoc3Tetra::theGrid` member variable is renamed to `HxLoc3Tetra::m_grid`.
- » The `HxLoc3Tetra::b` member variable is renamed to `HxLoc3Tetra::m_barCoords`.
- » The `HxLoc3Tetra::idx` member variable is renamed to `HxLoc3Tetra::m_idx`.
- » The `HxLoc3Tetra::isInTetra()` method signature is changed to use `bool isInTetra (const McVec3f &point, int iTetra)` instead of `int isInTetra (float x , float y, float z, int iTetra)`.
- » The `HxLoc3Tetra::move()` virtual method signature is changed to use virtual `bool move (const McVec3f &pos)` instead of virtual `int move (float x , float y, float z)`.
- » The `HxLoc3Tetra::set()` virtual method signature is changed to use virtual `bool set (const McVec3f &pos)` instead of virtual `int set (float x , float y, float z)`.
- » The `HxLoc3Tetra::computeBarycentricCoords()` method signature is changed to use `void computeBarycentricCoords (const McVec3f &point, int iTetra)` instead of `void computeBarycentricCoords (float x , float y, float z, int iTetra)`.

Changes to `HxLoc3Uniform` (Package `hxfield`)

- » The `HxLoc3Uniform::coords` member variable is renamed to `HxLoc3Uniform::m_coords`.
- » The `HxLoc3Uniform::fx` member variable is removed.
- » The `HxLoc3Uniform::fy` member variable is removed.
- » The `HxLoc3Uniform::fz` member variable is removed.



- » The `HxLoc3Uniform::move()` virtual method signature is changed to use virtual `bool move (const McVec3f &pos)` instead of virtual `int move (float x , float y, float z)`.
- » The `HxLoc3Uniform::set()` virtual method signature is changed to use virtual `bool set (const McVec3f &pos)` instead of virtual `int set (float x , float y, float z)`.

Changes to HxLocation3 (Package hxfield)

- » The `HxLocation3::HxLocation3()` method signature is changed to use `HxLocation3 (const McVec3f &loc)` instead of `HxLocation3 (float X, float Y, float Z)`.
- » The `HxLocation3::x` member variable is removed.
- » The `HxLocation3::y` member variable is removed.
- » The `HxLocation3::z` member variable is removed.
- » The `HxLocation3::move()` virtual method signature is changed to use virtual `bool move (const McVec3f &pos)` instead of virtual `int move (float x , float y, float z)`.
- » The `HxLocation3::set()` virtual method signature is changed to use virtual `bool set (const McVec3f &pos)` instead of virtual `int set (float x , float y, float z)`.
- » The `HxLocation3::getLocation()` method is removed.
- » The `HxLocation3::operator()` method signature is changed to use operator `const McVec3f & () const` instead of operator `const float * () const`.

Changes to HxRegColorField3 (Package hxfield)

- » The `HxRegColorField3::lattice` member variable is changed to private and `HxRegColorField3::lattice()` accessor(s) (is/are) added.
- » The `HxRegColorField3::HxRegColorField3()` method signature is changed to use `HxRegColorField3 (const McDim3l &dims, HxCoordType cType, void *data=NULL)` instead of `HxRegColorField3 (const int dims[3], HxCoordType cType, void *data=0)`.
- » The `HxRegColorField3::writeAmiraMesh()` method is removed.
- » The `HxRegColorField3::writeAvizo()` method is removed.
- » The `HxRegColorField3::create()` method signature is changed to use `McDim3l` type instead of `int [3]` type.
- » The `HxRegColorField3::getMemSize()` virtual method signature is changed to use virtual `mcint64 getMemSize (const McBox3f &box, bool *sizeOk) const` instead of virtual `bool getMemSize (mcuint64 &size, const McBox3f &box)`.

Changes to HxRegField3 (Package hxfield)

- » The `HxRegField3::lattice` member variable is changed to private and `HxRegField3::lattice()` accessor(s) (is/are) added.
- » The `HxRegField3::HxRegField3()` method signature is changed to use `McDim3l` type instead of `int [3]`



Changes to HxRegScalarField3 (Package hxfield)

- » The HxRegScalarField3::lattice member variable is changed to private and HxRegScalarField3::lattice() accessor(s) (is/are) added.
- » The HxRegScalarField3::HxRegScalarField3() method signature is changed to use McDim31 type instead of int [3] type.
- » The HxRegScalarField3::getMemSize() virtual method signature is changed to use virtual mcint64 getMemSize (const McBox3f &box, bool *sizeOk) const instead of virtual bool getMemSize (mcuint64 &size, const McBox3f &box).
- » The HxRegScalarField3::getRow() method is removed.
- » The HxRegScalarField3::putRow() method is removed.

Changes to HxRegVectorField3 (Package hxfield)

- » The HxRegVectorField3::lattice member variable is changed to private and HxRegVectorField3::lattice() accessor(s) (is/are) added.
- » The HxRegVectorField3::HxRegVectorField3() method signature is changed to use McDim31 type instead of int [3] type.
- » The HxRegVectorField3::computeMagnitudeRange() method signature is changed to use mcint64 type instead of mculong type.

Changes to HxTetraData (Package hxfield)

- » The HxTetraData::theEncoding member variable is removed.
- » The HxTetraData::portGrid member variable is removed.
- » The HxTetraData::theGrid member variable is removed.
- » The HxTetraData::m_octreeMutex member variable is removed.
- » The HxTetraData::m_hasUndefinedValue member variable is removed.
- » The HxTetraData::m_undefinedValue member variable is removed.
- » The HxTetraData::theData member variable is removed.
- » The HxTetraData::derivativePLeXact() method is removed.
- » The HxTetraData::numNodes member variable is removed.
- » The HxTetraData::setGrid() method signature is changed to return boolean type instead of integer type.
- » The HxTetraData::theNDataVar member variable is removed.
- » The HxTetraData::interpol() method signature is changed to return boolean type instead of integer type.



Changes to HxTetraField3 (Package hxfield)

- » The HxTetraField3::data member variable is changed to private and HxTetraField3::tetraData() accessor(s) (is/are) added.

Changes to HxTetraGrid (Package hxfield)

- » The HxTetraGrid::getCoords() virtual method signature is changed to return McArray < McVec3f > type instead of McVec3f type.
- » The HxTetraGrid::getNumPoints() method is removed.
- » The HxTetraGrid::add() method signature is changed to use boolean type instead of integer type.

Changes to HxTetraScalarField3 (Package hxfield)

- » The HxTetraScalarField3::encoding() method is removed.
- » The HxTetraScalarField3::data member variable is changed to private and HxTetraScalarField3::tetraData() accessor(s) (is/are) added.
- » The HxTetraScalarField3::grid() method is removed.
- » The HxTetraScalarField3::PER_VERTEX enum is removed.
- » The HxTetraScalarField3::PER_TETRA_VERTEX enum is removed.
- » The HxTetraScalarField3::PER_TETRA enum is removed.
- » The HxTetraScalarField3::dataPtr() method is removed.

Changes to HxTetraVectorField3 (Package hxfield)

- » The HxTetraVectorField3::data member variable is changed to private and HxTetraVectorField3::tetraData() accessor(s) (is/are) added.
- » The HxTetraVectorField3::grid() method is removed.
- » The HxTetraVectorField3::dataPtr() method is removed.

Changes to HxUniformColorField3 (Package hxfield)

- » The HxUniformColorField3::HxUniformColorField3() method signature is changed to use McDim31 type instead of int [3] type.
- » The HxUniformColorField3::bbox() method is removed.

Changes to HxUniformCoord3 (Package hxfield)

- » The HxUniformCoord3::HxUniformCoord3() method signature is changed to use McDim31 type instead of int [3] type.



- » The `HxUniformCoord3::bbox()` method is removed.
- » The `HxUniformCoord3::theBBox` member variable is removed.
- » The `HxUniformCoord3::crop()` method signature is changed to return void type instead of boolean type.
- » The `HxUniformCoord3::getBoundingBox()` virtual method signature is changed to use virtual `const McBox3f & getBoundingBox () const` instead of virtual `void getBoundingBox (float bbox [6]) const`.
- » The `HxUniformCoord3::pos()` virtual method signature is changed to use virtual `McVec3f pos (const McVec3i &idx3) const` instead of virtual `void pos (int i, int j, int k, float *res) const`.
- » The `HxUniformCoord3::resize()` virtual method signature is changed to use `McDim3I` type instead of `int [3]` type.
- » The `HxUniformCoord3::setBoundingBox()` virtual method signature is changed to use `McBox3f` type instead of `float [6]` type.
- » The `HxUniformCoord3::copyBoundingBox()` method is removed.

Changes to `HxUniformLabelField3` (Package `hxfield`)

- » The `HxUniformLabelField3::labelLat` member variable is changed to private and `HxUniformLabelField3::labelLattice()` accessor(s) (is/are) added.
- » The `HxUniformLabelField3::HxUniformLabelField3()` method signature is changed to use `McDim3I` type instead of `int [3]` type.
- » The `HxUniformLabelField3::dataPtr()` method is removed.
- » The `HxUniformLabelField3::autoConnect()` virtual method signature is changed to return boolean type instead of integer type.
- » The `HxUniformLabelField3::createColorMaterials()` method signature is changed to use `void createColorMaterials (const QString &label, const McBitfield &usedLabels, const HxColormap *cmap, bool mix)` instead of `void createColorMaterials (const McString &label, int numMaterials, HxColormap *cmap=0, int32_t *usedLabels=0, bool mix=false)`.
- » The `HxUniformLabelField3::getSize()` method is removed.
- » The `HxUniformLabelField3::resize()` method is removed.

Changes to `HxUniformScalarField3` (Package `hxfield`)

- » The `HxUniformScalarField3::HxUniformScalarField3()` method signature is changed to use `McDim3I` type instead of `int [3]` type.
- » The `HxUniformScalarField3::bbox()` method is removed.
- » The `HxUniformScalarField3::computeDivergence()` method signature is changed to return boolean type instead of integer type.

Changes to `HxUniformVectorField3` (Package `hxfield`)

- » The `HxUniformVectorField3::HxUniformVectorField3()` method signature is changed to use `McDim3I`



type instead of int [3] type.

- » The `HxUniformVectorField3::computeGradient()` method signature is changed to return void type instead of integer type.
- » The `HxUniformVectorField3::computeRotation()` method signature is changed to return void type instead of integer type.

Changes to TetraGrid (Package hxfield)

- » The `TetraGrid::params` member variable is changed to protected and `TetraGrid::params()` accessor(s) (is/are) added.
- » The `TetraGrid::edges` member variable is changed to protected and `TetraGrid::edges()` accessor(s) (is/are) added.
- » The `TetraGrid::edgesPerTetra` member variable is changed to protected and `TetraGrid::edgesPerTetra()` accessor(s) (is/are) added.
- » The `TetraGrid::tetrasPerPoint` member variable is changed to protected and `TetraGrid::tetrasPerPoint()` accessor(s) (is/are) added.
- » The `TetraGrid::points` member variable is changed to protected and `TetraGrid::points()` accessor(s) (is/are) added.
- » The `TetraGrid::tetras` member variable is changed to protected and `TetraGrid::tetras()` accessor(s) (is/are) added.
- » The `TetraGrid::triangles` member variable is changed to protected and `TetraGrid::triangles()` accessor(s) (is/are) added.
- » The `TetraGrid::materialIds` member variable is changed to protected and `TetraGrid::materialIds()` accessor(s) (is/are) added.
- » The `TetraGrid::octree` member variable is changed to protected and `TetraGrid::octree()` accessor(s) (is/are) added.
- » The `TetraGrid::bisectEdge()` method signature is changed to return boolean type instead of integer type.
- » The `TetraGrid::checkConsistency()` method signature is changed to return boolean type instead of integer type.
- » The `TetraGrid::isBoundaryConditionEdge()` method signature is changed to return boolean type instead of integer type.
- » The `TetraGrid::isBoundaryEdge()` method signature is changed to return boolean type instead of integer type.
- » The `TetraGrid::isObsoleteTetra()` method signature is changed to return boolean type instead of integer type.
- » The `TetraGrid::isObsoleteTriangle()` method signature is changed to return boolean type instead of integer type.
- » The `TetraGrid::numDuplicatedNodes` member variable is changed to protected and `TetraGrid::getNumDuplicatedNodes()`, `TetraGrid::setNumDuplicatedNodes()` accessor(s) (is/are) added.



- » The `TetraGrid::edgePIdx()` method is removed.
- » The `TetraGrid::tetraEIdx()` method is removed.

Changes to PzAxis (Package hxplot)

- » The `PzAxis::PzAxis()` method signature is changed to use `McBox2f` type instead of `PzBndBox` type.
- » The `PzAxis::theIntersection` member variable is removed.
- » The `PzAxis::currZoomPan` member variable is removed.
- » The `PzAxis::isAxisAttrForZoomOrPan` member variable is removed.
- » The `PzAxis::panEnabled` member variable is removed.
- » The `PzAxis::zoomEnabled` member variable is removed.
- » The `PzAxis::min_int` enum is renamed to `PzAxis::IM_MIN`.
- » The `PzAxis::mid_int` enum is renamed to `PzAxis::IM_MID`.
- » The `PzAxis::max_int` enum is renamed to `PzAxis::IM_MAX`.
- » The `PzAxis::zero_int` enum is renamed to `PzAxis::IM_ZERO`.
- » The `PzAxis::user_int` enum is renamed to `PzAxis::IM_USER`.
- » The `PzAxis::theOppPosition` member variable is removed.
- » The `PzAxis::thePosition` member variable is removed.
- » The `PzAxis::automatic_0` member variable is removed.
- » The `PzAxis::automatic_1` member variable is removed.
- » The `PzAxis::m_canPanAndZoomOnXAxis` member variable is removed.
- » The `PzAxis::m_canPanAndZoomOnYAxis` member variable is removed.
- » The `PzAxis::nicenum_0` member variable is removed.
- » The `PzAxis::nicenum_1` member variable is removed.
- » The `PzAxis::numticks_0` member variable is removed.
- » The `PzAxis::numticks_1` member variable is removed.
- » The `PzAxis::showBox` member variable is changed to private and `PzAxis::isShowBox()` accessor(s) (is/are) added.
- » The `PzAxis::getIntersection()` method signature is changed to use `PzAxisIntersectMode` type instead of integer type.
- » The `PzAxis::setIntersection()` method signature is changed to use `PzAxisIntersectMode` type instead of integer type.



Changes to PzBaseAxis (Package hxplot)

- » The PzBaseAxis::m_tLabels member variable is removed.
- » The PzBaseAxis::currArea member variable is removed.
- » The PzBaseAxis::currAutoWorld member variable is removed.
- » The PzBaseAxis::currWorld member variable is removed.
- » The PzBaseAxis::getMinMax() method signature is changed to return McBox2f type instead of PzBndBox type.
- » The PzBaseAxis::SHO enum is renamed to PzBaseAxis::SHOW.
- » The PzBaseAxis::setMinMax() method signature is changed to use McBox2f type instead of PzBndBox type.
- » The PzBaseAxis::setTickLabels() method signature is changed to use QStringList type instead of McDArray < McString > type.

Changes to PzBaseObject (Package hxplot)

- » The PzBaseObject::toBeUsed() method is removed.
- » The PzBaseObject::PzCHANGEPERMISSION enum is renamed to PzBaseObject::PZ_CHANGE_PERMISSION.
- » The PzBaseObject::PzDELETE enum is renamed to PzBaseObject::PZ_DELETE.
- » The PzBaseObject::PzCHANGE enum is renamed to PzBaseObject::PZ_CHANGE.
- » The PzBaseObject::PzEDIT enum is renamed to PzBaseObject::PZ_EDIT.
- » The PzBaseObject::PzINTERACTION enum is renamed to PzBaseObject::PZ_INTERACTION.

Changes to PzCurve (Package hxplot)

- » The PzCurve::PzLINECURVE enum is renamed to PzCurve::PZ_LINE_CURVE.
- » The PzCurve::PzHISTOGRAM enum is renamed to PzCurve::PZ_HISTOGRAM.
- » The PzCurve::PzMARKEDCURVE enum is renamed to PzCurve::PZ_MARKED_CURVE.
- » The PzCurve::PzMARKER enum is renamed to PzCurve::PZ_MARKER.
- » The PzCurve::PzIMPULS enum is renamed to PzCurve::PZ_IMPULS.

Changes to PzEasyPlot (Package hxplot)

- » The PzEasyPlot::myAxis member variable is removed.
- » The PzEasyPlot::myGrid member variable is removed.
- » The PzEasyPlot::myLegend member variable is removed.



- » The PzEasyPlot::myDataGroup member variable is removed.
- » The PzEasyPlot::withGrid member variable is removed.
- » The PzEasyPlot::withLegend member variable is removed.
- » The PzEasyPlot::autoupdate member variable is removed.
- » The PzEasyPlot::assignAttr() method is removed.
- » The PzEasyPlot::createTree() method is removed.
- » The PzEasyPlot::remDataNotInList() method signature is changed to use QStringList type instead of McDArray < McString > type.
- » The PzEasyPlot::PzOver enum is renamed to PzEasyPlot::PZ_OVER.
- » The PzEasyPlot::PzLeft enum is renamed to PzEasyPlot::PZ_LEFT.
- » The PzEasyPlot::PzRight enum is renamed to PzEasyPlot::PZ_RIGHT.
- » The PzEasyPlot::PzBottom enum is renamed to PzEasyPlot::PZ_BOTTOM.
- » The PzEasyPlot::PzTop enum is renamed to PzEasyPlot::PZ_TOP.

Changes to PzGenPlot (Package hxplot)

- » The PzGenPlot::theAnchor member variable is removed.

Changes to PzGrid (Package hxplot)

- » The PzGrid::myAxis member variable is removed.
- » The PzGrid::theMax member variable is removed.
- » The PzGrid::theMin member variable is removed.
- » The PzGrid::theOrigMax member variable is removed.
- » The PzGrid::theOrigMin member variable is removed.
- » The PzGrid::myAxisType member variable is removed.
- » The PzGrid::numSubticks member variable is removed.
- » The PzGrid::numTicks member variable is removed.
- » The PzGrid::theQuadrant member variable is removed.
- » The PzGrid::getAxisType() method signature is changed to return PzAxisType type instead of integer type.
- » The PzGrid::PzNoGrid enum is renamed to PzGrid::PZ_NO_GRID.
- » The PzGrid::PzCrossGrid enum is renamed to PzGrid::PZ_CROSS_GRID.
- » The PzGrid::PzVerticalGrid enum is renamed to PzGrid::PZ_VERTICAL_GRID.



- » The PzGrid::PzHorizontalGrid enum is renamed to PzGrid::PZ_HORIZONTAL_GRID.

Changes to PzLegend (Package hxplot)

- » The PzLegend::LEGENDBLOCK enum is renamed to PzLegend::LEGEND_BLOCK.
- » The PzLegend::NAMEBLOCK enum is renamed to PzLegend::NAME_BLOCK.
- » The PzLegend::NAMELIST enum is renamed to PzLegend::NAME_LIST.
- » The PzLegend::delta member variable is removed.
- » The PzLegend::startX member variable is removed.
- » The PzLegend::startY member variable is removed.
- » The PzLegend::numCols member variable is removed.
- » The PzLegend::numRows member variable is removed.

Changes to PzMarkerline (Package hxplot)

- » The PzMarkerline::myLabel member variable is removed.
- » The PzMarkerline::probeCurve member variable is removed.
- » The PzMarkerline::axisMax member variable is removed.
- » The PzMarkerline::axisMin member variable is removed.
- » The PzMarkerline::axisOrigMax member variable is removed.
- » The PzMarkerline::axisOrigMin member variable is removed.
- » The PzMarkerline::axisType member variable is removed.

Changes to PzPlot (Package hxplot)

- » The PzPlot::myFileDialog member variable is removed.
- » The PzPlot::currBGCol member variable is removed.
- » The PzPlot::theDataImporter member variable is removed.
- » The PzPlot::theObjectEditor member variable is removed.
- » The PzPlot::mainWindow member variable is removed.

Changes to PzPlotArea (Package hxplot)

- » The PzPlotArea::getArea() method signature is changed to return McBox2f type instead of PzBndBox type.
- » The PzPlotArea::PzPlotArea() method signature is changed to use McBox2f type instead of PzBndBox type.



- » The `PzPlotArea::setArea()` method signature is changed to use `McBox2f` type instead of `PzBndBox` type.

Changes to `PzPlotObject` (Package `hxplot`)

- » The `PzPlotObject::theScript` member variable is removed.
- » The `PzPlotObject::callInitProc` member variable is removed.
- » The `PzPlotObject::theLabel` member variable is removed.
- » The `PzPlotObject::getScript()` method signature is changed to return `QString` type instead of `char*` type.
- » The `PzPlotObject::myNormTr` member variable is removed.
- » The `PzPlotObject::getTheData()` method is renamed to `PzPlotObject::getData()`.
- » The `PzPlotObject::setScript()` method signature is changed to use `QString` type instead of `char*` type.

Changes to `PzScatter` (Package `hxplot`)

- » The `PzScatter::currCmap` member variable is removed.
- » The `PzScatter::howtoRender` member variable is removed.
- » The `PzScatter::PzSIZEDPOINTS` enum is renamed to `PzScatter::PZ_SIZED_POINTS`.
- » The `PzScatter::PzCOLOREDPOINTS` enum is renamed to `PzScatter::PZ_COLORED_POINTS`.
- » The `PzScatter::PzCOLSIZEDPOINTS` enum is renamed to `PzScatter::PZ_COLSIZED_POINTS`.
- » The `PzScatter::zmax` member variable is removed.
- » The `PzScatter::zmin` member variable is removed.
- » The `PzScatter::cmapAutomatic` member variable is removed.

Changes to `HxPortDrawStyle` (Package `hxsurface`)

- » The `HxPortDrawStyle::backfaceAction` member variable is removed.
- » The `HxPortDrawStyle::bothFaceAction` member variable is removed.
- » The `HxPortDrawStyle::constAlphaAction` member variable is removed.
- » The `HxPortDrawStyle::createSurfaceAction` member variable is removed.
- » The `HxPortDrawStyle::directNormalAction` member variable is removed.
- » The `HxPortDrawStyle::fancyAlphaAction` member variable is removed.
- » The `HxPortDrawStyle::frontFaceAction` member variable is removed.
- » The `HxPortDrawStyle::gouraudAction` member variable is removed.
- » The `HxPortDrawStyle::opaqueAction` member variable is removed.



- » The `HxPortDrawStyle::sortingAction` member variable is removed.
- » The `HxPortDrawStyle::specularAction` member variable is removed.
- » The `HxPortDrawStyle::textureAction` member variable is removed.
- » The `HxPortDrawStyle::triNormalAction` member variable is removed.
- » The `HxPortDrawStyle::vertexNormalAction` member variable is removed.
- » The `HxPortDrawStyle::alphaActionGroup` member variable is removed.
- » The `HxPortDrawStyle::cullingActionGroup` member variable is removed.
- » The `HxPortDrawStyle::normalActionGroup` member variable is removed.
- » The `HxPortDrawStyle::shadingActionGroup` member variable is removed.
- » The `HxPortDrawStyle::comboBox` member variable is removed.
- » The `HxPortDrawStyle::m_labelColorButton` member variable is removed.
- » The `HxPortDrawStyle::m_labelLineWidth` member variable is removed.
- » The `HxPortDrawStyle::m_optionsButton` member variable is removed.
- » The `HxPortDrawStyle::m_colorButton` member variable is removed.
- » The `HxPortDrawStyle::m_lineWidth` member variable is removed.
- » The `HxPortDrawStyle::drawStyle` member variable is removed.
- » The `HxPortDrawStyle::hasCullingControls` member variable is removed.
- » The `HxPortDrawStyle::hasNormalControls` member variable is removed.
- » The `HxPortDrawStyle::textureFlag` member variable is removed.
- » The `HxPortDrawStyle::getState()` virtual method signature is changed to use `QString` type instead of `McString` type.
- » The `HxPortDrawStyle::popupActivated()` method is removed.
- » The `HxPortDrawStyle::setSensitivity()` method is removed.

Changes to HxSurface (Package `hxsurface`)

- » The `HxSurface::HxSurface()` method signature is changed to use `HxSurface (int nPoints, int nContours, int nPatches)` instead of `HxSurface (int nPoints, int nContours, int nPatches, int nSurfaces)`.
- » The `HxSurface::textureCoords` member variable is removed.
- » The `HxSurface::getTextureCoords()` method is removed.
- » The `HxSurface::getArea()` method is removed.
- » The `HxSurface::getMaxEdgeLength()` method is removed.



- » The `HxSurface::getMeanEdgeLength()` method is removed.
- » The `HxSurface::getMinEdgeLength()` method is removed.
- » The `HxSurface::getVolume()` method is removed.
- » The `HxSurface::maxEdgeLengthOfTriangle()` method is removed.
- » The `HxSurface::meanEdgeLengthOfTriangle()` method is removed.
- » The `HxSurface::minEdgeLengthOfTriangle()` method is removed.
- » The `HxSurface::hasTextureCoords()` method is removed.
- » The `HxSurface::mergeDuplicateGridVertices()` method is removed.
- » The `HxSurface::removeSmallPatches()` method is removed.
- » The `HxSurface::getNumPoints()` method is removed.
- » The `HxSurface::getCoords()` method signature is changed to return `McArray < McVec3f >` type instead of `McVec3f` type.
- » The `HxSurface::copyMaterials()` method is removed.

Changes to `HxSurfaceField` (Package `hxsurface`)

- » The `HxSurfaceField::encoding` member variable is renamed to `HxSurfaceField::m_encoding`.
- » The `HxSurfaceField::theSurface` member variable is removed.
- » The `HxSurfaceField::OnNodes` enum is renamed to `HxSurfaceField::ON_NODES`.
- » The `HxSurfaceField::OnTriangles` enum is renamed to `HxSurfaceField::ON_TRIANGLES`.
- » The `HxSurfaceField::OnTriangleNodes` enum is renamed to `HxSurfaceField::ON_TRIANGLES_NODE`.
- » The `HxSurfaceField::theData` member variable is removed.
- » The `HxSurfaceField::numNodes` member variable is removed.
- » The `HxSurfaceField::setSurface()` method is removed.
- » The `HxSurfaceField::theNDataVar` member variable is removed.

Changes to `HxTriBase` (Package `hxsurface`)

- » The `HxTriBase::_selectVisibleOnly` member variable is renamed to `HxTriBase::m_selectVisibleOnly`.
- » The `HxTriBase::selectVisibleOnly()` method is renamed to `HxTriBase::getSelectVisibleOnly()`.
- » The `HxTriBase::isHighlighted()` method is removed.
- » The `HxTriBase::isSelected()` method is removed.
- » The `HxTriBase::highlightAllTriangles()` method is removed.



- » The `HxTriBase::highlightTriangle()` method is removed.
- » The `HxTriBase::selectAllTriangles()` method is removed.
- » The `HxTriBase::selectTriangle()` method is removed.
- » The `HxTriBase::selectTriangles()` method is removed.
- » The `HxTriBase::selectVisibleOnly()` method is renamed to `HxTriBase::setSelectVisibleOnly()`.

Changes to `HxDynamicDataCtrl` (Package `hxtime`)

- » The `HxDynamicDataCtrl::currentPhysicalTime` member variable is renamed to `HxDynamicDataCtrl::m_currentPhysicalTime`.
- » The `HxDynamicDataCtrl::physicalTimeRange` member variable type is changed to use `McRangeF` instead of `float [2]`.
- » The `HxDynamicDataCtrl::currentMode` member variable type is changed to use `TimeMode` instead of `integer`.
- » The `HxDynamicDataCtrl::currentTimeStep` member variable type is changed to use `McRangeF` instead of `float [2]`.
- » The `HxDynamicDataCtrl::timeStepRange` member variable type is changed to use `McRangeI` instead of `integer [2]`.

Changes to `HxDynamicSeriesCtrl` (Package `hxtime`)

- » The `HxDynamicSeriesCtrl::objectInfo` member variable is renamed to `HxDynamicSeriesCtrl::m_objectInfo`.
- » The `HxDynamicSeriesCtrl::timeSteps` member variable is renamed to `HxDynamicSeriesCtrl::m_timeSteps`.
- » The `HxDynamicSeriesCtrl::loadCmd` member variable type is changed to use `QString` instead of `McString`.
- » The `HxDynamicSeriesCtrl::canCreateData()` virtual method signature is changed to use virtual `bool canCreateData (HxData *data, QString &createCmd)` instead of virtual `int canCreateData (HxData *, McString &createCmd)`.

Changes to `HxDynamicSeriesCtrl::ObjectInfo` (Package `hxtime`)

- » The `HxDynamicSeriesCtrl::ObjectInfo::selected` struct member is removed.

Changes to `HxPortTime` (Package `hxtime`)

- » The `HxPortTime::setAnimationMode()` method signature is changed to use `AnimationMode` type instead of `integer` type.
- » The `HxPortTime::play()` method signature is changed to use `boolean` type instead of `integer` type.
- » The `HxPortTime::getDiscrete()` method signature is changed to return `boolean` type instead of `integer`.



type.

- » The `HxPortTime::more` member variable is removed.
- » The `HxPortTime::theFormat` member variable is removed.
- » The `HxPortTime::timeSlider` member variable is removed.
- » The `HxPortTime::theIncrement` member variable is removed.
- » The `HxPortTime::theMaxValue` member variable is removed.
- » The `HxPortTime::theMinValue` member variable is removed.
- » The `HxPortTime::theRealTimeFactor` member variable is removed.
- » The `HxPortTime::theSubMaxValue` member variable is removed.
- » The `HxPortTime::theSubMinValue` member variable is removed.
- » The `HxPortTime::theValue` member variable is removed.
- » The `HxPortTime::theAnimationFlag` member variable is removed.
- » The `HxPortTime::theAnimationMode` member variable is removed.
- » The `HxPortTime::theDiscreteFlag` member variable is removed.
- » The `HxPortTime::theForwardFlag` member variable is removed.
- » The `HxPortTime::theInitAppendFlag` member variable is removed.
- » The `HxPortTime::theNoWidgetFlag` member variable is removed.
- » The `HxPortTime::thePlayDelay` member variable is removed.
- » The `HxPortTime::theTimeOutFlag` member variable is removed.
- » The `HxPortTime::theTrackingFlag` member variable is removed.
- » The `HxPortTime::commonInit()` method is removed.
- » The `HxPortTime::setPlayButtonState()` method is removed.
- » The `HxPortTime::getState()` virtual method signature is changed to use `QString` type instead of `McString` type.

Changes to `QxPortTimeNotifier` (Package `hxtime`)

- » The `QxPortTimeNotifier::play()` method signature is changed to use `boolean` type instead of `integer` type.

Changes to `HxPortSliderUnits` (Package `hxunits`)

- » The `HxPortSliderUnits::m_originalLabel` member variable is removed.
- » The `HxPortSliderUnits::m_exponent` member variable is removed.



Changes to HxPortTextNUnits (Package hxunits)

- » The HxPortTextNUnits::m_originalLabel member variable is removed.
- » The HxPortTextNUnits::m_exponent member variable is removed.

Changes to HxDisplayVertices (Package hxvertexset)

- » The HxDisplayVertices::gatherPickInfo() virtual method signature is changed to use QString type instead of McString type.

Changes to SoQuadricSphereSetRenderer (Package hxvertexset)

- » The SoQuadricSphereSetRenderer::m_shapeSet member variable is removed.
- » The SoQuadricSphereSetRenderer::hasRayPick() method is removed.
- » The SoQuadricSphereSetRenderer::GLRender() method is removed.
- » The SoQuadricSphereSetRenderer::generatePrimitives() method is removed.
- » The SoQuadricSphereSetRenderer::rayPick() method is removed.

Changes to SoSphereDetail (Package hxvertexset)

- » The SoSphereDetail::sphereIndex member variable is removed.

Changes to SoSphereSet (Package hxvertexset)

- » The SoSphereSet::UNSET enum is removed.
- » The SoSphereSet::SET enum is removed.
- » The SoSphereSet::TOGGLE enum is removed.
- » The SoSphereSet::defaultColor member variable is removed.
- » The SoSphereSet::defaultRadius member variable is removed.
- » The SoSphereSet::createPointDetail() virtual method is removed.
- » The SoSphereSet::createTriangleDetail() virtual method is removed.
- » The SoSphereSet::GLRender() virtual method is removed.
- » The SoSphereSet::computeBBox() virtual method is removed.
- » The SoSphereSet::generatePrimitives() virtual method is removed.
- » The SoSphereSet::rayPick() virtual method is removed.

Changes to SoText2Set (Package hxvertexset)



- » The `SoText2Set::selectLabel()` method signature is changed to use `BitMode` type instead of integer type.
- » The `SoText2Set::selectLabels()` method signature is changed to use `BitMode` type instead of integer type.
- » The `SoText2Set::selectAllLabels()` method signature is changed to use `BitMode` type instead of integer type.
- » The `SoText2Set::textRenderer` member variable is removed.
- » The `SoText2Set::colors` member variable is removed.
- » The `SoText2Set::color_indices` member variable is removed.
- » The `SoText2Set::depthOffset` member variable is removed.
- » The `SoText2Set::colorTable` member variable is removed.
- » The `SoText2Set::color` member variable is removed.
- » The `SoText2Set::defaultColor` member variable is removed.
- » The `SoText2Set::highlightColor` member variable is removed.
- » The `SoText2Set::subSceneValid` member variable is removed.
- » The `SoText2Set::useGlobalOffset` member variable is removed.
- » The `SoText2Set::UNSET` enum is renamed to `SoText2Set::OFF`.
- » The `SoText2Set::SET` enum is renamed to `SoText2Set::ON`.
- » The `SoText2Set::TOGGLE` enum is renamed to `SoText2Set::TOGGLE_VISIBILITY`.
- » The `SoText2Set::defaultOffset` member variable is removed.
- » The `SoText2Set::globalOffset` member variable is removed.
- » The `SoText2Set::opacity` member variable is removed.
- » The `SoText2Set::nLabelStrings` member variable is removed.
- » The `SoText2Set::nLabels` member variable is removed.
- » The `SoText2Set::nOffsets` member variable is removed.
- » The `SoText2Set::nVisible` member variable is removed.
- » The `SoText2Set::GLRender()` method is removed.
- » The `SoText2Set::GLRenderBelowPath()` method is removed.
- » The `SoText2Set::GLRenderInPath()` method is removed.
- » The `SoText2Set::GLRenderOffPath()` method is removed.
- » The `SoText2Set::computeBBox()` method is removed.
- » The `SoText2Set::generatePrimitives()` method is removed.



- » The `SoText2Set::renderText()` method is removed.
- » The `SoText2Set::setColorHighlighted()` method is removed.
- » The `SoText2Set::setupScene()` method is removed.
- » The `SoText2Set::isVisible()` method signature is changed to return boolean type instead of integer type.
- » The `SoText2Set::setUseIndices()` method signature is changed to use boolean type instead of unsigned char type.

Changes to `HxObjectGroupEventTracker` (Package `hxworkroom`)

- » The `HxObjectGroupEventTracker::m_trackedObject` member variable is removed.
- » The `HxObjectGroupEventTracker::m_listenedOwner` member variable is removed.
- » The `HxObjectGroupEventTracker::m_state` member variable is removed.

Changes to `HxPanel` (Package `hxworkroom`)

- » The `HxPanel::defaultGeometry()` method is renamed to `HxPanel::getDefaultGeometry()`.
- » The `HxPanel::m_defaultFlags` member variable is removed.
- » The `HxPanel::m_featureFlags` member variable is removed.
- » The `HxPanel::m_icon` member variable is removed.
- » The `HxPanel::m_defaultGeometry` member variable is removed.
- » The `HxPanel::m_sizePolicy` member variable is removed.
- » The `HxPanel::m_actionText` member variable is removed.
- » The `HxPanel::m_name` member variable is removed.
- » The `HxPanel::m_title` member variable is removed.
- » The `HxPanel::m_tooltip` member variable is removed.
- » The `HxPanel::m_allowedAreas` member variable is removed.
- » The `HxPanel::m_isPanelActive` member variable is removed.
- » The `HxPanel::VisibleByDefault` member variable is renamed to `HxPanel::VISIBLE_BY_DEFAULT`.
- » The `HxPanel::DockedByDefault` member variable is renamed to `HxPanel::DOCKED_BY_DEFAULT`.
- » The `HxPanel::EnabledByDefault` member variable is renamed to `HxPanel::ENABLED_BY_DEFAULT`.
- » The `HxPanel::LeftAreaByDefault` member variable is renamed to `HxPanel::LEFT_AREA_BY_DEFAULT`.
- » The `HxPanel::RightAreaByDefault` member variable is renamed to `HxPanel::RIGHT_AREA_BY_DEFAULT`.



- » The `HxPanel::TopAreaByDefault` member variable is renamed to `HxPanel::TOP_AREA_BY_DEFAULT`.
- » The `HxPanel::BottomAreaByDefault` member variable is renamed to `HxPanel::BOTTOM_AREA_BY_DEFAULT`.
- » The `HxPanel::NoFeatureFlags` member variable is renamed to `HxPanel::NO_FEATURE_FLAGS`.
- » The `HxPanel::Closable` member variable is renamed to `HxPanel::CLOSABLE`.

Changes to `HxPanelManager` (Package `hxworkroom`)

- » The `HxPanelManager::m_panels` member variable is removed.
- » The `HxPanelManager::m_panelsVisibleBeforeHideAction` member variable is removed.
- » The `HxPanelManager::m_panelsLayoutsByDefault` member variable is removed.
- » The `HxPanelManager::m_selectedTabifiedDock` member variable is removed.
- » The `HxPanelManager::restoreLayout()` virtual method signature is changed to use virtual `void restoreLayout (bool restoreAsDefaultLayout=false, bool initialization=false)` instead of virtual `void restoreLayout (bool restoreAsDefaultLayout=false)`.
- » The `HxPanelManager::hideAllUnallowedGlobalPanels()` method is removed.
- » The `HxPanelManager::restoreDefaultPanelsProperties()` method signature is changed to use `void restoreDefaultPanelsProperties (bool restoreAsDefaultLayout=false)` instead of `void restoreDefaultPanelsProperties ()`.

Changes to `HxSubWorkroom` (Package `hxworkroom`)

- » The `HxSubWorkroom::m_behaviors` member variable is removed.
- » The `HxSubWorkroom::m_workroom` member variable is removed.
- » The `HxSubWorkroom::m_label` member variable is removed.
- » The `HxSubWorkroom::BehaviorList` member variable is removed.
- » The `HxSubWorkroom::addBehavior()` method is removed.
- » The `HxSubWorkroom::removeBehavior()` method is removed.

Changes to `HxWorkroom` (Package `hxworkroom`)

- » The `HxWorkroom::m_behaviors` member variable is removed.
- » The `HxWorkroom::m_objectGroupEventTracker` member variable is removed.
- » The `HxWorkroom::m_activeSubWorkroom` member variable is removed.
- » The `HxWorkroom::subWorkroomOfActivateAction()` method is removed.
- » The `HxWorkroom::activateActionOfSubWorkroom()` method is removed.



- » The `HxWorkroom::m_activateActionGroup` member variable is removed.
- » The `HxWorkroom::m_enabledSubWorkrooms` member variable is removed.
- » The `HxWorkroom::isSupportRemote()` method is renamed to `HxWorkroom::isRemoteSupported()`.
- » The `HxWorkroom::isSupportVR()` method is renamed to `HxWorkroom::isVrSupported()`.
- » The `HxWorkroom::m_supportRemote` member variable is removed.
- » The `HxWorkroom::m_supportVR` member variable is removed.
- » The `HxWorkroom::BehaviorList` member variable is removed.
- » The `HxWorkroom::restoreLayout()` virtual method signature is changed to use virtual void `restoreLayout (bool restoreAsDefaultLayout=false, bool initialization=false)` instead of virtual void `restoreLayout (bool restoreAsDefaultLayout=false)`.
- » The `HxWorkroom::onSubWorkroomChanged()` method is removed.
- » The `HxWorkroom::registerSubWorkroom()` method is removed.
- » The `HxWorkroom::removeBehavior()` method is removed.

Changes to HxWorkroomBehaviorBase (Package hxworkroom)

- » The `HxWorkroomBehaviorBase::commonConstructor()` method is removed.

Changes to HxWorkroomBehaviorRestoreViewerState (Package hxworkroom)

- » The `HxWorkroomBehaviorRestoreViewerState::m_homeViewerStateManager` member variable is removed.
- » The `HxWorkroomBehaviorRestoreViewerState::m_viewerStateManager` member variable is removed.

Changes to HxWorkroomManager (Package hxworkroom)

- » The `HxWorkroomManager::getActivePanelManager()` method is removed.
- » The `HxWorkroomManager::m_globalPanelManager` member variable is removed.
- » The `HxWorkroomManager::retrievePanelManagerOfPanel()` method is removed.
- » The `HxWorkroomManager::createWorkroomFromInfo()` method is removed.
- » The `HxWorkroomManager::m_activeWorkroom` member variable is removed.
- » The `HxWorkroomManager::workroomOfActivateAction()` method is removed.
- » The `HxWorkroomManager::activateActionOfWorkroom()` method is removed.
- » The `HxWorkroomManager::m_hideAllPanelsAction` member variable is removed.
- » The `HxWorkroomManager::m_activateActionGroup` member variable is removed.



- » The `HxWorkroomManager::m_mainWindow` member variable is removed.
- » The `HxWorkroomManager::m_menu` member variable is removed.
- » The `HxWorkroomManager::m_enabledWorkrooms` member variable is removed.
- » The `HxWorkroomManager::m_userRequestAsEnabledWorkrooms` member variable is removed.
- » The `HxWorkroomManager::m_context` member variable is removed.
- » The `HxWorkroomManager::m_activeWorkroomAtStartup` member variable is removed.
- » The `HxWorkroomManager::m_workrooms` member variable is removed.
- » The `HxWorkroomManager::m_initCalled` member variable is removed.
- » The `HxWorkroomManager::getWorkroomOwner()` virtual method signature is changed to use `QString` type instead of `McString` type.
- » The `HxWorkroomManager::addRegisteredObjectsBeforeInit()` method is removed.
- » The `HxWorkroomManager::createGui()` method is removed.
- » The `HxWorkroomManager::initLayout()` method is removed.
- » The `HxWorkroomManager::setCentralWidgetFromWorkroom()` method is removed.
- » The `HxWorkroomManager::unsetCentralWidgetOfWorkroom()` method is removed.

Changes to HxWorkroomManagerInterface (Package hxworkroom)

- » The `HxWorkroomManagerInterface::getWorkroomOwner()` virtual method signature is changed to use `QString` type instead of `McString` type.

Changes to McBitfield (Package mclib)

- » The `McBitfield::print()` method signature is changed to use `QString` type instead of `McString` type.
- » The `McBitfield::print2D()` method signature is changed to use `QString` type instead of `McString` type.
- » The `McBitfield::save()` method signature is changed to use `QString` type instead of `McString` type.
- » The `McBitfield::load()` method signature is changed to use `QString` type instead of `McString` type.

Changes to McBox2f (Package mclib)

- » The `McBox2f::contains()` method signature is changed to return `boolean` type instead of `integer` type.
- » The `McBox2f::hasArea()` method is removed.
- » The `McBox2f::intersect()` method signature is changed to return `boolean` type instead of `integer` type.
- » The `McBox2f::isEmpty()` method is removed.

Changes to McBox2i (Package mclib)



- » The `McBox2i::getMax()` method is removed.
- » The `McBox2i::getMin()` method is removed.
- » The `McBox2i::contains()` method signature is changed to return boolean type instead of integer type.
- » The `McBox2i::hasArea()` method is removed.
- » The `McBox2i::intersect()` method signature is changed to return boolean type instead of integer type.
- » The `McBox2i::isEmpty()` method signature is changed to return boolean type instead of integer type.
- » The `McBox2i::operator!=` method signature is changed to return boolean type instead of integer type.
- » The `McBox2i::operator==` method signature is changed to return boolean type instead of integer type.
- » The `McBox2i::insert()` method is removed.
- » The `McBox2i::setCorners()` method is removed.

Changes to `McBox3d` (Package `mclib`)

- » The `McBox3d::intersectWith()` method signature is changed to return boolean type instead of `McBox3d` type.
- » The `McBox3d::getIntersectionWithRayFromCenter()` method is removed.
- » The `McBox3d::operator[]` method is removed.
- » The `McBox3d::contains()` method signature is changed to return boolean type instead of integer type.
- » The `McBox3d::intersect()` method signature is changed to return boolean type instead of integer type.
- » The `McBox3d::isConsistent()` method is removed.
- » The `McBox3d::isEmpty()` method signature is changed to return boolean type instead of integer type.
- » The `McBox3d::isNull()` method signature is changed to return boolean type instead of integer type.
- » The `McBox3d::operator!=` method signature is changed to return boolean type instead of integer type.
- » The `McBox3d::operator==` method signature is changed to return boolean type instead of integer type.
- » The `McBox3d::operator()` method is removed.

Changes to `McBox3f` (Package `mclib`)

- » The `McBox3f::getVoxelSize()` method signature is changed to use `McDim3l` type instead of `McVec3f` type.
- » The `McBox3f::LiangBarskyClipTest()` method is removed.
- » The `McBox3f::clipLine()` method is removed.
- » The `McBox3f::getIntersectionWithRayFromAnywhere()` method is removed.
- » The `McBox3f::getIntersectionWithRayFromCenter()` method is removed.



- » The `McBox3f::contains()` method signature is changed to return boolean type instead of integer type.
- » The `McBox3f::intersects()` method signature is changed to use `bool intersects (const McBox3f &other, bool withTouch=false) const` instead of `int intersects (const McBox3f &other, int withTouch=0) const`.
- » The `McBox3f::isConsistent()` method is removed.
- » The `McBox3f::isEmpty()` method signature is changed to return boolean type instead of integer type.
- » The `McBox3f::isNull()` method signature is changed to return boolean type instead of integer type.
- » The `McBox3f::operator!=` method signature is changed to return boolean type instead of integer type.
- » The `McBox3f::operator==` method signature is changed to return boolean type instead of integer type.
- » The `McBox3f::operator()` method is removed.
- » The `McBox3f::getBox()` method is removed.

Changes to `McBox3i` (Package `mclib`)

- » The `McBox3i::McBox3i()` method signature is changed to use `McBox3i (int bbox[6])` instead of `McBox3i (int *array)`.
- » The `McBox3i::contains()` method signature is changed to return boolean type instead of integer type.
- » The `McBox3i::intersects()` method signature is changed to return boolean type instead of integer type.
- » The `McBox3i::isConsistent()` method is removed.
- » The `McBox3i::isEmpty()` method signature is changed to return boolean type instead of integer type.

Changes to `McColor` (Package `mclib`)

- » The `McColor::r` member variable is changed to protected and `McColor::getR()`, `McColor::setR()` accessor(s) (is/are) added.
- » The `McColor::g` member variable is changed to protected and `McColor::getG()`, `McColor::setG()` accessor(s) (is/are) added.
- » The `McColor::b` member variable is changed to protected and `McColor::getB()`, `McColor::setB()` accessor(s) (is/are) added.

Changes to `McDArray` (Package `mclib`)

- » The `McDArray::index()` method is renamed to `McDArray::indexOf()`.
- » The `McDArray::rindex()` method is renamed to `McDArray::lastIndexOf()`.
- » The `McDArray::pop()` method signature is changed to use boolean type instead of integer type.

Changes to `McDataPointer` (Package `mclib`)

- » The `McDataPointer::McDataPointer()` method signature is changed to use `McPrimType` type instead of



McDataType type.

- » The `McDataPointer::dataType()` method is renamed to `McDataPointer::getPrimType()`.
- » The `McDataPointer::operator()` to `void*` method is removed.
- » The `McDataPointer::changeDataPtr()` method is removed.

Changes to McDataSpace (Package mclib)

- » The `McDataSpace::getDimsAsMcDArray()` method is removed.
- » The `McDataSpace::isIdentical()` method is removed.
- » The `McDataSpace::sameSpace()` method is renamed to `McDataSpace::isSameSpace()`.
- » The `McDataSpace::count()` method is removed.
- » The `McDataSpace::selectionSize()` method is renamed to `McDataSpace::selectionSizes()`.
- » The `McDataSpace::selectionStart()` method is renamed to `McDataSpace::selectionStarts()`.
- » The `McDataSpace::start()` method is removed.
- » The `McDataSpace::strides()` method is removed.
- » The `McDataSpace::count()` method is removed.
- » The `McDataSpace::dim()` method is removed.
- » The `McDataSpace::rank()` method is removed.
- » The `McDataSpace::selectionStride()` method is renamed to `McDataSpace::selectionStrides()`.
- » The `McDataSpace::init()` method is removed.
- » The `McDataSpace::restrictDim()` method is removed.
- » The `McDataSpace::restrictSelection()` method is removed.

Changes to McLine (Package mclib)

- » The `McLine::getDirection()` method is removed.
- » The `McLine::getPosition()` method is removed.
- » The `McLine::setValue()` method is removed.

Changes to McMat2d (Package mclib)

- » The `McMat2d::multVecMatrix()` method is removed.

Changes to McMat2f (Package mclib)

- » The `McMat2f::multVecMatrix()` method is removed.



Changes to McMat3d (Package mclib)

- » The McMat3d::multLeft() method is removed.
- » The McMat3d::multRight() method is removed.
- » The McMat3d::operator!= method signature is changed to return boolean type instead of integer type.
- » The McMat3d::operator== method signature is changed to return boolean type instead of integer type.
- » The McMat3d::identity() method is removed.
- » The McMat3d::makeIdentity() method is removed.

Changes to McMat3f (Package mclib)

- » The McMat3f::multLeft() method is removed.
- » The McMat3f::multRight() method is removed.
- » The McMat3f::operator!= method signature is changed to return boolean type instead of integer type.
- » The McMat3f::operator== method signature is changed to return boolean type instead of integer type.
- » The McMat3f::identity() method is removed.
- » The McMat3f::makeIdentity() method is removed.
- » The McMat3f::operator<< method is removed.
- » The McMat3f::print() method is removed.

Changes to McMat4 (Package mclib)

- » The McMat4::operator!= method signature is changed to return boolean type instead of integer type.
- » The McMat4::operator== method signature is changed to return boolean type instead of integer type.
- » The McMat4::identity() method is removed.
- » The McMat4::makeIdentity() method is removed.
- » The McMat4::print() method is removed.

Changes to McMemoryException (Package mclib)

- » The McMemoryException::McMemoryException() method signature is changed to use QString type instead of McString type.
- » The McMemoryException::constructErrorMessage() method signature is changed to return QString type instead of McString type.
- » The McMemoryException::nbytes member variable is removed.



Changes to McMemorySelection (Package mclib)

- » The McMemorySelection::McMemorySelection() method signature is changed to use mcint64 type instead of integer type.
- » The McMemorySelection::count() method is removed.
- » The McMemorySelection::selectionSize() method is renamed to McMemorySelection::selectionSizes().
- » The McMemorySelection::offsets() method signature is changed to return mcint64 type instead of mclong type.
- » The McMemorySelection::rank() method is removed.
- » The McMemorySelection::selectionElemCount() method signature is changed to return mcint64 type instead of mclong type.
- » The McMemorySelection::get() method signature is changed to use mcint64 type instead of mclong type.
- » The McMemorySelection::put() method signature is changed to use mcint64 type instead of mclong type.

Changes to McPlane (Package mclib)

- » The McPlane::getNormal() method is removed.
- » The McPlane::operator!= method signature is changed to return boolean type instead of integer type.
- » The McPlane::operator== method signature is changed to return boolean type instead of integer type.

Changes to McPrimType (Package mclib)

- » The McPrimType::nameToType() method is renamed to McPrimType::convertNameToType().
- » The McPrimType::operator!= method signature is changed to return boolean type instead of integer type.
- » The McPrimType::operator== method signature is changed to return boolean type instead of integer type.

Changes to McProgressInterface (Package mclib)

- » The McProgressInterface::mCurrentNode member variable is changed to private and McProgressInterface::getCurrentNode() accessor(s) (is/are) added.
- » The McProgressInterface::mRoot member variable is changed to private and McProgressInterface::getRoot() accessor(s) (is/are) added.
- » The McProgressInterface::mNumSteps member variable is removed.
- » The McProgressInterface::mStepsProcessed member variable is removed.
- » The McProgressInterface::wasInterrupted() virtual method signature is changed to return boolean type instead of integer type.
- » The McProgressInterface::wasSuspended() virtual method signature is changed to return boolean type



instead of integer type.

- » The `McProgressInterface::startWorking()` method is removed.
- » The `McProgressInterface::startWorkingNoStop()` method is removed.

Changes to `McRawData` (Package `mclib`)

- » The `McRawData::crop()` method signature is changed to return boolean type instead of integer type.
- » The `McRawData::flip()` method signature is changed to return boolean type instead of integer type.

Changes to `McRawData2D` (Package `mclib`)

- » The `McRawData2D::data` member variable is removed.
- » The `McRawData2D::toFree` member variable is removed.
- » The `McRawData2D::bytesPerLine` member variable is removed.
- » The `McRawData2D::bytesPerPixel` member variable is removed.
- » The `McRawData2D::getBytesPerLine()` method signature is changed to return `mculong` type instead of integer type.
- » The `McRawData2D::isContiguous()` method signature is changed to return boolean type instead of integer type.
- » The `McRawData2D::islocal()` method signature is changed to return boolean type instead of integer type.
- » The `McRawData2D::nx` member variable is removed.
- » The `McRawData2D::ny` member variable is removed.
- » The `McRawData2D::elemSize` member variable is removed.
- » The `McRawData2D::cleanup()` method is removed.

Changes to `McRawData3D` (Package `mclib`)

- » The `McRawData3D::data` member variable is removed.
- » The `McRawData3D::toFree` member variable is removed.
- » The `McRawData3D::dims` member variable is removed.
- » The `McRawData3D::elemSize` member variable is removed.
- » The `McRawData3D::getOffset()` method signature is changed to use `Orientation` type instead of integer type.
- » The `McRawData3D::accessSlice()` method signature is changed to use `Orientation` type instead of integer type.
- » The `McRawData3D::cleanup()` method is removed.



- » The `McRawData3D::getDims()` method signature is changed to use `Orientation` type instead of integer type.
- » The `McRawData3D::getSlice()` method signature is changed to use `void getSlice (Orientation orientation, int sliceNumber, McRawData2D &result, bool copyData=false) const` instead of `void getSlice (int orientation, int sliceNumber, McRawData2D &result, int copyData=0) const`.
- » The `McRawData3D::putSlice()` method signature is changed to use `Orientation` type instead of integer type.

Changes to McRot (Package mclib)

- » The `McRot::operator!=` method signature is changed to return boolean type instead of integer type.
- » The `McRot::operator==` method signature is changed to return boolean type instead of integer type.
- » The `McRot::McRot()` method signature is changed to use `McVec3T` type instead of `McVec3` type.
- » The `McRot::setValue()` method signature is changed to use `McVec3T` type instead of `McVec3` type.
- » The `McRot::equals()` method is removed.
- » The `McRot::identity()` method is removed.
- » The `McRot::getValue()` method signature is changed to use `McVec3T` type instead of `McVec3` type.
- » The `McRot::multVec()` method signature is changed to use `McVec3T` type instead of `McVec3` type.

Changes to McTypedData2D (Package mclib)

- » The `McTypedData2D::myPrimType` member variable is removed.
- » The `McTypedData2D::primType()` method is renamed to `McTypedData2D::getPrimType()`.
- » The `McTypedData2D::typedPtr()` method is renamed to `McTypedData2D::getTypedPtr()`.
- » The `McTypedData2D::myNumDataVar` member variable is removed.
- » The `McTypedData2D::nDataVar()` method is renamed to `McTypedData2D::getNDataVar()`.
- » The `McTypedData2D::init()` method is removed.

Changes to McTypedData3D (Package mclib)

- » The `McTypedData3D::myPrimType` member variable is removed.
- » The `McTypedData3D::primType()` method is renamed to `McTypedData3D::getPrimType()`.
- » The `McTypedData3D::McTypedData3D()` method signature is changed to use `McDim31` type instead of `int*` type.
- » The `McTypedData3D::myNumDataVar` member variable is removed.
- » The `McTypedData3D::nDataVar()` method is renamed to `McTypedData3D::getNDataVar()`.



» The `McTypedData3D::getSlice()` method signature is changed to use `void getSlice (Orientation orientation, int sliceNumber, McTypedData2D &result, bool copyData=false) const` instead of `void getSlice (int orientation, int sliceNumber, McTypedData2D &result, int copyData=0) const`.

Changes to `McTypedPointer` (Package `mclib`)

- » The `McTypedPointer::primType` member variable is changed to private and `McTypedPointer::getPrimType()`, `McTypedPointer::setPrimType()` accessor(s) (is/are) added.
- » The `McTypedPointer::data` member variable is changed to private and `McTypedPointer::getData()`, `McTypedPointer::setData()` accessor(s) (is/are) added.
- » The `McTypedPointer::operator()` to `void*` method is removed.

Changes to `McTypeInfo` (Package `mclib`)

- » The `McTypeInfo::fromName()` method is renamed to `McTypeInfo::getTypeFromName()`.
- » The `McTypeInfo::canCreateInstance()` method signature is changed to return boolean type instead of integer type.
- » The `McTypeInfo::isOfType()` method signature is changed to return boolean type instead of integer type.

Changes to `McTypeObject` (Package `mclib`)

Changes to `McVec2i` (Package `mclib`)

- » The `McVec2i::operator!=` method signature is changed to return boolean type instead of integer type.
- » The `McVec2i::operator==` method signature is changed to return boolean type instead of integer type.

Changes to `McVec3i` (Package `mclib`)

- » The `McVec3i::operator!=` method signature is changed to return boolean type instead of integer type.
- » The `McVec3i::operator==` method signature is changed to return boolean type instead of integer type.

Changes to `McVec4` (Package `mclib`)

- » The `McVec4::operator!=` method signature is changed to return boolean type instead of integer type.
- » The `McVec4::operator==` method signature is changed to return boolean type instead of integer type.
- » The `McVec4::operator<` method is removed.
- » The `McVec4::operator>` method is removed.

Changes to `McVec4i` (Package `mclib`)

- » The `McVec4i::operator!=` method signature is changed to return boolean type instead of integer type.



» The `McVec4i::operator==` method signature is changed to return boolean type instead of integer type.

Changes to `McVec4l` (Package `mclib`)

» The `McVec4l::operator!=` method signature is changed to return boolean type instead of integer type.