Gantt-Diagramm zur Implementierung

Woche	28			29		30		31		32	
Arbeitsschritte	Aufsetzen der Entwicklungs-Umgebung	MS 1: Initialisierung/ Prototypenfeld		Puffer		MS 2: MeasurementConfiguration aufbauen	Puffer	MS 3: Messlauf starten	Puffer	MS 4: Laden und Speichern + Usability	Puffer

Verantwortung

Controller

Model Interface
Klasse	Verantwortung
IModelInformation	Jan (Aufsetzen)
IMeasurementRun	Jan (Aufsetzen)

View Controller Interface
Klasse	Verantwortung
ButtonAction	
BlockAction	
ConnectionAction	

Command Pattern
Klasse	Verantwortung
CommandManager	Jan (MS1)
Command	Leon (Aufsetzen)
AddBlockToConfigCommand	Leon (MS2)
ModifyBlockInConfigCommand	Leon (MS2)
RemoveBlockFromConfigCommand	Leon (MS2)
EditBlockPropertiesCommand	
CloneBlockCommand	Leon (Puffer)
ExportBlockPrototypeCommand	Leon (Puffer)
SaveConfigCommand	Leon (MS4)
LoadConfigCommand	Leon (MS4)
ResetConfigCommand	Leon (MS4)
CreateChannelConnectionCommand	Leon (MS2)
ModifyChannelConnectionCommand	Leon (MS2)
DeleteChannelConnectionCommand	Leon (MS2)
StartRunCommand	Leon (MS3)
StopRunCommand	Leon (MS3)
ResumeRunCommand	Leon (MS3)

FileService

Services
Klasse	Verantwortung
YamlService	Linus 300%+ Test 100% (MS1); Linus 100%+ Test 100% (MS4)
CsvService	Linus 100%+ Test 100%
PngService	Linus 100%+ Test 100%

GUI
Klasse	Verantwortung
MainWindow	Linus: vorläufige GUI für unsere Anwendung -ca. 80%

Menues
Klasse	Verantwortung
PrototypeField	Leon - Stubs integriert und Interfaces implementiert
SensorBlockField	Leon - Stubs integriert und Interfaces implementiert
TransformationBlockField	Leon
RepresentationBlockField	Leon
FieldHandler	

Configuration
Klasse	Verantwortung
ConfigurationField	Linus- Konfigurationsfeld wurde durch den Editor ersetzt ca. 50%
BlockDragAndDropHandler	Leon
BuildingBlockView	Leon
SensorBlockView	Leon
TransformationBlockView	Leon
RepresentationBlockView	Leon
HelpDecoratorHandler	Leon
AddWireDragAndDropHandler	
RemoveWireDragAndDropHandler	
ChannelDecorator	
OutChannelDecorator	
InChannelDecorator	
Wire	

Building Block Properties
Klasse	Verantwortung
BuildingBlockProperties	Leon
BuildingBlockPropertiesHandler	Leon
SensorBlockProperties	Leon
TransformationBlockProperties	
TransBlockPropertiesHandler	
RepresentationBlockProperties	
ReprBlockPropertiesHandler	

Button
Klasse	Verantwortung
Button	Linus -inbegriffen in ButtonField - ca 80%
ButtonHandler	Linus - inbegriffen in ButtonField -ca. 80%

Exception
Klasse	Verantwortung
ExceptionWindowManager	Linus -90%
ExceptionWindow	Linus -90%
BuildingBlockExceptionWindow	Linus -90%
ConnectionExceptionWindow	Linus -90%
GeneralExceptionWindow	Linus -90%

HelpAndOption
Klasse	Verantwortung
OptionsWindow	
HelpWindow	
HelpWindowHandler	wird nicht benötigt - im OptionsWindow enthalten; Grundgerüst steht
OptionsWindowHandler	wird nicht benötigt - im OptionsWindow enthalten; Grundgerüst steht

FacadeControllerView
Klasse	Verantwortung
PickUpPointControllerView	Leon
IButtonAction	Linus -100 % Fassade erstmal reduziert auf elementare Aktionen
IBlockAction	
IConnectionAction	

FacadeModelView
Klasse	Verantwortung
ViewDirectoryInterface	

Model

Core
Klasse	Verantwortung
MeasurementRun	
MeasurementRunState	
MeasurementConfiguration	
BuildingBlock	
HelpMessage	
YamlRepresentation	David
BuildingBlockDirectory	David

Transformation Logic
Klasse	Verantwortung
Function	
Transformation	

Representation Logic
Klasse	Verantwortung
Representation	
TableRepresentation	
XYRepresentation	

Sensor Logic
Klasse	Verantwortung
Sensor	
PhysicalSensor	
VirtualSensor	

Channel Logic
Klasse	Verantwortung
Channel	
ChannelState	
Connected	
UnConnected	
ValueReady	
InChannel	
OutChannel	

Building Block Builder
Klasse	Verantwortung
Director	David
Builder	David
SnakeYamlParser	David
SensorBuilder	David
PhysicalSensorBuilder	
VirtualSensorBuilder	
TransformationBuilder	David
RepresentationBuilder	David
XYRepresentationBuilder	
TableRepresentationBuilder	

Facades
Klasse	Verantwortung
PickUpPointViewFacades	
UpdateInterface	
GraphicDataInterface	
ExceptionInterface	
MeasurementDataInterface	
MRunReaction	
MRunInfo	
ModelManager	

Backend

Measurement Logic
Klasse	Verantwortung
AccessToSensorInfo	Jan
AccessToMRun	Jan
MeasurementState	
MRunAgent	Jan (MS3); Jan ... Jan Jan Jan Jan Jan
SensorInfoAgent	Jan
PickPointForAgentsBasedOnSsh	Jan
InitDataForSsh	Jan
IMStreamListener	Jan

Command Factory
Klasse	Verantwortung
ComToPi	Jan
SshToPi	Jan Jan Jan Jan Jan ... Jan Jan Jan Jan Jan
CommandFactory	Jan
SshCommandFactory	Jan
CommandGetSensorIds	Jan
CommandCopyFrom	Jan
CommandCopyTo	Jan
MeasurementRunnable	Jan Jan ... Jan Jan Jan Jan

Cache

Cache Logic
Klasse	Verantwortung
MRunTiming	
Timer	
Cache	
BufferForOneSensorInChannel	
TimestampValuePair	
ConnectionTerminatedAction	
TimeoutAction	
ErrorCodeAction	
DataSetCompleteAction	
EnhancedValuePacket	
ErrorCodesForInChannel	
CheckAndNotifyAction	
MRunListener	
MRunInfo	
TimerTask	

Woche / **Tag**

Woche	27				28				29							30							31				32			
Tag	07-Jul	08-Jul	09-Jul	10-Jul	11-Jul	12-Jul	13-Jul	14-Jul	15-Jul	16-Jul	17-Jul	18-Jul	19-Jul	20-Jul	21-Jul	22-Jul	23-Jul	24-Jul	25-Jul	26-Jul	27-Jul	28-Jul	29-Jul	30-Jul	31-Jul	01-Aug	02-Aug	03-Aug	04-Aug	05-Aug	06-Aug	07-Aug	08-Aug	09-Aug	10-Aug	11-Aug

Modul
Submodul

Klasse	Verantwortung

Controller — Jan

Model Interface
- IModelInformation
- IMeasurementRun

View Controller Interface
- ButtonAction
- BlockAction
- ConnectionAction

Command Pattern
- CommandManager
- Command
- AddBlockToConfigCommand
- ModifyBlockInConfigCommand
- RemoveBlockFromConfigCommand
- EditBlockPropertiesCommand
- CloneBlockCommand
- ExportBlockPrototypeCommand
- SaveConfigCommand
- LoadConfigCommand
- ResetConfigCommand
- CreateChannelConnectionCommand
- ModifyChannelConnectionCommand
- DeleteChannelConnectionCommand
- StartRunCommand
- StopRunCommand
- ResumeRunCommand

FileService — Jan

Services
- YamlService
- CsvService
- PngService

GUI — Linus
- MainWindow

Menues
- PrototypeField
- TransformationBlockField
- RepresentationBlockField
- FieldHandler

Configuration
- ConfigurationField
- BlockDragAndDropHandler
- BuildingBlockView
- SensorBlockView
- TransformationBlockView
- RepresentationBlockView
- HelpDecoratorHandler
- AddWireDragAndDropHandler
- RemoveWireDragAndDropHandler
- ChannelDecorator
- OutChannelDecorator
- InChannelDecorator
- Wire

Building Block Properties
- BuildingBlockProperties
- BuildingBlockPropertiesHandler
- SensorBlockProperties
- TransformationBlockProperties
- TransBlockPropertiesHandler
- RepresentationBlockProperties
- ReprBlockPropertiesHandler

Button
- Button
- ButtonHandler

Exception
- ExceptionWindowManager
- ExceptionWindow
- BuildingBlockExceptionWindow
- ConnectionExceptionWindow
- GeneralExceptionWindow

HelpAndOption
- OptionsWindow
- HelpWindow
- HelpWindowHandler
- OptionsWindowHandler

FacadeControllerView
- PickUpPointControllerView
- ButtonAction
- BlockAction
- ConnectionAction

FacadeModelView
- ViewDirectoryInterface

Model — David/Leon

Core
- MeasurementRun
- MeasurementRunState
- MeasurementConfiguration
- BuildingBlock
- HelpMessage
- YamlRepresentation
- BuildingBlockDirectory

Transformation Logic
- Function
- Transformation

Representation Logic
- Representation
- TableRespresentation
- XYRepresentation

Sensor Logic
- Sensor
- PhysicalSensor
- VirtualSensor

Channel Logic
- Channel
- ChannelState
- Connected
- UnConnected
- ValueReady
- InChannel
- OutChannel

Building Block Builder
- Director
- Builder
- SnakeYamlParser
- SensorBuilder
- PhysicalSensorBuilder
- VirtualSensorBuilder
- TransformationBuilder
- RepresentationBuilder
- XYRepresentationBuilder
- TableRepresentationBuilder

Facade Controller View
- PickUpPointViewFacades
- UpdateInterface
- GraphicDataInterface
- ExceptionInterface
- MeasurementDataInterface
- MRunReaction
- MRunInfo
- ModelManager

Backend — Stefan

Measurement Logic
- IAccessToSensorInfo
- IAccessToMRun
- MeasurementState
- MRunAgent
- SensorInfoAgent
- PickPointForAgentsBasedOnSsh
- InitDataForSsh
- IMStreamListener

Command Factory
- ComToPi
- SshToPi
- CommandFactory
- SshCommandFactory
- CommandGetSensorIds
- SshCommandGetSensorIds
- CommandCopyFromPi
- SshCommandCopyFromPi
- CommandCopyToPi
- SshCommandCopyToPi
- CommandMRunAPI
- SshCommandMRunAPI
- SystemProcessCommandLine
- BufferedReader
- Writer
- MRunThread
- Thread
- Runnable

Cache — Stefan

Cache Logic
- MRunTiming
- Timer
- Cache
- BufferForOneSensorInChannel
- TimestampValuePair
- ConnectionTerminatedAction
- TimeoutAction
- ErrorCodeAction
- DataSetCompleteAction
- EnhancedValuePacket
- ErrorCodesForInChannel
- CheckAndNotifyAction
- IMRunListener
- IMRunInfo
- TimerTask