Transport

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Section 1. Project description

No description found (add content in project description)

Section 2. Classes

This section describes the classes contained in the project.

2.1. Classes overview

This project contains 8 classes and 0 interface.

Table 1. Classes list

Classes	Interfaces
Sequence Experiment.lvclass	
Sequence Experiment UI.lvclass	
Sequence Experiment SM.lvclass	
Control Experiment.lvclass	
Control Experiment UI.lvclass	
Control Experiment SM.lvclass	
SweepControl.lvclass	
Transport.lvclass	

```
@startuml
set namespaceSeparator :
skinparam ClassBackgroundColor #FFFFFF
skinparam ClassBorderColor #555555
skinparam ClassFontColor #000000
skinparam ClassHeaderBackgroundColor #808080
skinparam top to bottom direction
class "Sequence Experiment" {
{field} -Configuration : Cluster
{static} {method} +Sequence Experiment.getAll()
{static} {method} -Sequence Experiment.Command Enum to String()
{static} {method} -Sequence Experiment.Configuration Window()
{static} {method} #Sequence Experiment.Client()
{static} {method} +Sequence Experiment.AppLauncher()
{method} +Open()
{method} +Close()
{method} #Configure Instrument()
{method} #Handle Command()
{method} #getAll()
{method} #Get SMO Name()
{method} #Get SMO Public API()
{method} #Get SMO Port()
{method} #Get SMO RC Type()
{method} #Process()
```

```
"Instrument" <|-- "Sequence Experiment"
class "Sequence Experiment UI" {
{field} -Instrument : LV Class
{static} {method} +Sequence Experiment UI.TestLauncher()
{method} #Process()
"Instrument UI" < | -- "Sequence Experiment UI"
"Sequence Experiment UI" *-- "Instrument"
class "Sequence Experiment SM" {
{static} {method} +Main()
}
class "Control Experiment" {
{field} -Configuration : Cluster
{static} {method} +Control Experiment.getAll()
{static} {method} -Control Experiment.Command Enum to String()
{static} {method} -Control Experiment.Configuration Window()
{static} {method} #Control Experiment.Client()
{static} {method} +Control Experiment.AppLauncher()
{method} +Open()
{method} +Close()
{method} #Configure Instrument()
{method} #Handle Command()
{method} #getAll()
{method} #Get SMO Name()
{method} #Get SMO Public API()
{method} #Get SMO Port()
{method} #Get SMO RC Type()
{method} #Process()
"Instrument" <|-- "Control Experiment"
class "Control Experiment UI" {
{field} -Instrument : LV Class
{static} {method} +Control Experiment UI.TestLauncher()
{method} #Process()
"Instrument UI" < | -- "Control Experiment UI"
"Control Experiment UI" *-- "Instrument"
```

```
class "Control Experiment SM" {
{field} -Experiment : Cluster
{field} +Wiring Configuration : Cluster
{field} +Instruments : Cluster
{field} +Comments : String
{field} -DAT Path : Path
{field} -dictionary : Datalog
{field} -AWS Credentials : Path
{field} -File Path : Path
{field} -Device Description : String
{static} {method} +Generate Comments()
{static} {method} +Comments.Add D()
{static} {method} +Comments.Add Wiring Description()
{static} {method} +Comments.Add Experiment Description()
{static} {method} +Comments.Add Sweep Description()
{static} {method} +Comments.Add Lockin Description()
{static} {method} +Comments.Create Lockin AO Description()
{static} {method} +Comments.Create Lockin REF Description()
{static} {method} +Comments.Create Lockin Sampling Description()
{static} {method} +D()
{static} {method} +Instrument Class Paths()
{static} {method} +Get Date Time ISO()
{static} {method} +Get Date Time For Filename()
{static} {method} +Find File()
{static} {method} +Load Instrument Classes()
{static} {method} +Multiply Gains()
{static} {method} +ElectrodesLabelsToPickeringChannels()
{static} {method} +Number to Letter()
{static} {method} +Letter to Number()
{static} {method} +DBL Variant or Array Variant to Array()
{static} {method} +D()
{static} {method} +Compare With Pr()
{static} {method} +Reset Counter()
{static} {method} +Open Experiment VI()
{static} {method} +Open Lockin()
{static} {method} +GetLocalComputerName()
{static} {method} +Initialize KH Array()
{static} {method} +Append Dictionary Element()
{static} {method} +Close Dictionary()
{static} {method} +Erase Comments()
{static} {method} +Get Channel Indices()
{static} {method} +Move Existing Config Files()
{static} {method} +Class XML FGV()
{static} {method} +Control Experiment FGV()
{static} {method} +Create Transport DAT File()
{static} {method} +Save Transport DAT File()
{static} {method} +Save Transport DAT File 2D()
{static} {method} +Save Transport ITX File()
{static} {method} +Save Transport TDMS File()
{static} {method} +Upload to S3()
```

```
{static} {method} +Save JSON File()
{static} {method} +Pickering 4 Wire PPMS DR Asynchronous()
{static} {method} +Pickering 4 Wire Asynchronous()
{static} {method} +PickeringReadConfig Asynchronous()
{static} {method} +PickeringWriteConfig Asynchronous()
{static} {method} +Asana Dictionary Get Value()
{static} {method} +Asana Dictionary Tasks Get Value()
{static} {method} +Test Upload to S3()
{static} {method} +Test Write()
{static} {method} +Control Experiment SM()
{static} {method} +Tree()
"Control Experiment SM" *-- "Instrument.KH7008"
"Control Experiment SM" *-- "Instrument.Lockin"
"Control Experiment SM" *-- "Instrument.Cryostat"
"Control Experiment SM" *-- "Instrument.CBridge"
"Control Experiment SM" *-- "Instrument.OpticalDelayLine"
"Control Experiment SM" *-- "Instrument.Strain"
"Control Experiment SM" *-- "Instrument.VNA"
class "SweepControl" {
{field} -Scan control : Array of Cluster
{field} -Scan parameters : Array of Cluster
{field} -Post action (indexing priority) : Array of Enum {}
{field} -Experiment : Enum {}
{field} -Sorted scan control : Array of Cluster
{field} +Sorted scan parameters : Array of Cluster
{field} +Parameter (Now) : Double Float
{field} +Control Experiment : LV Class
{field} -Scan parameters 2 : Array of Cluster
{field} -Sorted scan parameters 2 : Array of Cluster
{field} -Scan Parameters (now) : Cluster
{field} -Indices : Cluster
{field} -Stop? : Boolean
{field} -Sweep Lockin Array : Array of Cluster
{static} {method} +AppendDBLtoComments()
{static} {method} +Post action()
{static} {method} +Scan action()
{static} {method} +Sort Scan Parameters()
{static} {method} +Create Scan()
{static} {method} +Sweep Control Inner Loop()
{static} {method} +D-Lockin()
{static} {method} +Take Measurement()
{static} {method} +Sweep Control()
{static} {method} +Continuous B sweep()
{static} {method} +Sweep Control Cartesian()
{static} {method} +Sweep Control Loop()
{static} {method} +SweepControl.TestLauncher()
{method} #Process()
```

```
"SMO" < | -- "SweepControl"
"SweepControl" *-- "Control Experiment SM"
class "Transport" {
{field} +Dependencies : Cluster
{field} -Notifier : Notifier
{static} {method} +Add Braces String()
{static} {method} +Add Braces Array()
{static} {method} +Add Braces()
{static} {method} +Calculate R and G - Four Terminal()
{static} {method} +Calculate R and G - Two Terminal()
{static} {method} +Decimate and Filter()
{static} {method} +GraphLockin_vs_Parameter()
{static} {method} +2D Results to X and Y Arrays()
{static} {method} +Create Keys (AI)()
{static} {method} +Create Keys (A0)()
{static} {method} +Exec State to Append()
{static} {method} +Append Waveform if new()
{static} {method} +IV()
{static} {method} +IV_Sweep()
{static} {method} +Lockin time()
{static} {method} +Lockin_Vsg()
{static} {method} +Lockin_sweep()
{static} {method} +Lockin AIWFM time()
{static} {method} +Lockin()
{static} {method} +THz TimeDelay()
{static} {method} +Sweep AIWFM time()
{static} {method} +Temp Sweep Control()
"Transport" *-- "SweepControl"
"Transport" *-- "Control Experiment SM"
@enduml
```

2.2. Sequence Experiment.lvclass

Responsibility: LevyLab Instrument based on JKI SMO (by val).

```
@startuml
set namespaceSeparator :
skinparam ClassBackgroundColor #FFFFFF
skinparam ClassBorderColor #555555
skinparam ClassFontColor #000000
skinparam ClassHeaderBackgroundColor #808080
skinparam top to bottom direction
class "Sequence Experiment" {
{field} -Configuration : Cluster
{static} {method} +Sequence Experiment.getAll()
{static} {method} -Sequence Experiment.Command Enum to String()
{static} {method} -Sequence Experiment.Configuration Window()
{static} {method} #Sequence Experiment.Client()
{static} {method} +Sequence Experiment.AppLauncher()
{method} +Open()
{method} +Close()
{method} #Configure Instrument()
{method} #Handle Command()
{method} #getAll()
{method} #Get SMO Name()
{method} #Get SMO Public API()
{method} #Get SMO Port()
{method} #Get SMO RC Type()
{method} #Process()
"Instrument" < | -- "Sequence Experiment"
@enduml
```

Table 2. Functions (non private scope only)

Name	Connector pane	Description	S.	R.	I.
Open	Sequence Experiment [11] Address [10] error in (no error) [8] 9701 [0] error out	No description found (add content in vi description)			
Close	Sequence Experiment [11] [3] Sequence Experiment out error in (no error) [8] [0] error out	No description found (add content in vi description)			
Sequence Experiment.g etAll	Sequence Experiment [11] [3] Sequence Experiment out [3] Sequence Experiment out [4] getAll [6] error out	No description found (add content in vi description)			
Configure Instrument	Sequence Experiment [11] [3] Sequence Experiment out error in (no error) [8] [0] error out	No description found (add content in vi description)	O.		
Handle Command	Sequence Experiment [11] Command [10] Data [9] error in (no error) [8] [3] Sequence Experiment out [2] Command [1] Processed Data [0] error out	No description found (add content in vi description)	or.		

Name	Connector pane	Description	S.	R.	I.
getAll	Sequence Experiment [11] [3] Sequence Experiment out at [2] getAll error in (no error) [8] [0] error out	No description found (add content in vi description)	ი *		
Get SMO Name	Sequence Experiment [11] [3] Sequence Experiment out error in (no error) [8] [0] error out	No description found (add content in vi description)	o*		
Get SMO Public API	Sequence Experiment [11] [3] Sequence Experiment out error in (no error) [8] [0] error out	No description found (add content in vi description)	o*		
Get SMO Port	Sequence Experiment [11] [3] Sequence Experiment out error in (no error) [8] [2] Port [0] error out	No description found (add content in vi description)	σ*		
Get SMO RC Type	Sequence Experiment (11) 3 Sequence Experiment out 22 Configuration.SMO.RC Type error in (no error) [8] [9] error out	No description found (add content in vi description)	o*		
Read Configuratio n File	Sequence Experiment [11] [3] Sequence Experiment out error in (no error) [8] [0] error out	No description found (add content in vi description)	O.		
Write Configuratio n File	Sequence Experiment [11] [3] Sequence Experiment out error in (no error) [8] [0] error out	No description found (add content in vi description)	O.		
Sequence Experiment.C lient	Sequence Experiment [1] [3] Sequence Experiment out Command [10] [2] Command [10] [3] Experiment out [2] Command [10] error in (no error) [8]	No description found (add content in vi description)	O.		
Process	Sequence Experiment [11] [3] Sequence Experiment out error in [8] [0] error out	JKI State Machine Objects™ http://jki.net/state-machine-objects/ Copyright (C) 2005-2015, JKI <info@jki.net> ALL RIGHTS RESERVED</info@jki.net>	of.	S	
Sequence Experiment. AppLauncher	sea €	No description found (add content in vi description)			

Reentrancy: \blacksquare \rightarrow Preallocated reentrancy $\mid \blacksquare$ \rightarrow Shared reentrancy

Inlining: → Inlined

2.3. Sequence Experiment UI.lvclass

Responsibility: LevyLab Instrument UI class that inherits from SMO.UI.

Table 3. Functions (non private scope only)

Name	Connector pane	Description	S.	R.	I.
Process	Sequence Experiment UI [11] [3] Sequence Experiment UI out		or.	S	
		JKI State Machine Objects™			
		http://jki.net/state-machine-objects/			
		Copyright (C) 2005-2015, JKI <info@jki.net></info@jki.net>			
		ALL RIGHTS RESERVEDJKI State Machine			
		Objects (SMO) 1.0.0.5			
		JKI - JKI			
		Copyright (c) 2016, JKI			
Sequence	SEQUI	JKI State Machine Objects (SMO) 1.0.0.5			
Experiment	*				
UI.TestLaunc		JKI - JKI			
her					
		Copyright (c) 2016, JKI			

Scope: σ \rightarrow Protected | σ \rightarrow Community

Reentrancy: \blacksquare \rightarrow Preallocated reentrancy \mid \blacksquare \rightarrow Shared reentrancy

Inlining: \rightarrow Inlined

2.4. Sequence Experiment SM.lvclass

Responsibility: No description found (add content in lvclass description)

Version: 1.0.0.0

```
@startuml
set namespaceSeparator :
skinparam ClassBackgroundColor #FFFFFF
skinparam ClassBorderColor #555555
skinparam ClassFontColor #000000
skinparam ClassHeaderBackgroundColor #808080

skinparam top to bottom direction
class "Sequence Experiment SM" {
{static} {method} +Main()
}
```

Table 4. Functions (non private scope only)

Name	Connector pane	Description	S.	R.	I.
Main	PYLVSEQ	No description found (add content in vi description)			

Scope: **♂** → Protected | **♂** → Community

 $\textbf{R} eentrancy : \blacksquare \ \rightarrow \ Preallocated \ reentrancy \ | \ \blacksquare \ \rightarrow \ Shared \ reentrancy$

Inlining: → Inlined

2.5. Control Experiment.lvclass

Responsibility: LevyLab Instrument based on JKI SMO (by val).

```
@startuml
set namespaceSeparator :
skinparam ClassBackgroundColor #FFFFFF
skinparam ClassBorderColor #555555
skinparam ClassFontColor #000000
skinparam ClassHeaderBackgroundColor #808080
skinparam top to bottom direction
class "Control Experiment" {
{field} -Configuration : Cluster
{static} {method} +Control Experiment.getAll()
{static} {method} -Control Experiment.Command Enum to String()
{static} {method} -Control Experiment.Configuration Window()
{static} {method} #Control Experiment.Client()
{static} {method} +Control Experiment.AppLauncher()
{method} +Open()
{method} +Close()
{method} #Configure Instrument()
{method} #Handle Command()
{method} #getAll()
{method} #Get SMO Name()
{method} #Get SMO Public API()
{method} #Get SMO Port()
{method} #Get SMO RC Type()
{method} #Process()
"Instrument" < | -- "Control Experiment"
@enduml
```

Table 5. Functions (non private scope only)

Name	Connector pane	Description	S.	R.	I.
Open	Sequence Experiment [11] [3] Sequence Experiment out Address [10] [5] error out [7] error out	No description found (add content in vi description)			
Close	Sequence Experiment [11] [3] Sequence Experiment out error in (no error) [8] [0] error out	No description found (add content in vi description)			
Control Experiment.g etAll	Sequence Experiment [11] [3] Sequence Experiment out [2] getAll error in (no error) [3] [6] error out	No description found (add content in vi description)			
Configure Instrument	Sequence Experiment [11] [3] Sequence Experiment out error in (no error) [8] [0] error out	No description found (add content in vi description)	o*		
Handle Command	Sequence Experiment (11) 3 Sequence Experiment out Command (10) 4 Sequence Experiment out (2) Command (20) Data (3) 1 Processed Data (10) error out	No description found (add content in vi description)	o*		

Name	Connector pane	Description	S.	R.	I.
getAll	Sequence Experiment [11] [3] Sequence Experiment out [3] Graphic Experiment out [3] Graphic Experiment out [4] Graphic Experiment	No description found (add content in vi description)	ა *		
Get SMO Name	Sequence Experiment [11] [3] Sequence Experiment out error in (no error) [8] [9] error out	No description found (add content in vi description)	o*		
Get SMO Public API	Sequence Experiment [11] [3] Sequence Experiment out 22 Commands error in (no error) [8] [9] [9] error out	No description found (add content in vi description)	o*		
Get SMO Port	Sequence Experiment [11] [3] Sequence Experiment out error in (no error) [8] [2] Port [0] error out	No description found (add content in vi description)	ი *		
Get SMO RC Type	Sequence Experiment [11] [3] Sequence Experiment out error in (no error) [8] [2] Configuration.SMO.RC Type	No description found (add content in vi description)	ი *		
Read Configuratio n File	Sequence Experiment [11] [3] Sequence Experiment out error in (no error) [6] [0] error out	No description found (add content in vi description)	O.		
Write Configuratio n File	Sequence Experiment [11] [3] Sequence Experiment out error in (no error) [8] [0] error out	No description found (add content in vi description)	O.		
Control Experiment.C lient	Sequence Experiment [11] Command [10] Data [9] error in (no error) [8] [3] Sequence Experiment out Command [10] [1] Data out [0] error out	No description found (add content in vi description)	O.		
Process	Sequence Experiment [11] [3] Sequence Experiment out error in [8] [0] error out	JKI State Machine Objects™ http://jki.net/state-machine-objects/ Copyright (C) 2005-2015, JKI <info@jki.net> ALL RIGHTS RESERVED</info@jki.net>	ď	5	
Control Experiment. AppLauncher	eti-SMO	No description found (add content in vi description)			

Reentrancy: \blacksquare \rightarrow Preallocated reentrancy $\mid \blacksquare$ \rightarrow Shared reentrancy

Inlining: → Inlined

2.6. Control Experiment UI.lvclass

Responsibility: LevyLab Instrument UI class that inherits from SMO.UI.

```
@startuml
set namespaceSeparator :
skinparam ClassBackgroundColor #FFFFFF
skinparam ClassBorderColor #555555
skinparam ClassFontColor #000000
skinparam top to bottom direction
class "Control Experiment UI" {
{field} -Instrument : LV Class
{static} {method} +Control Experiment UI.TestLauncher()
{method} #Process()
}
"Instrument UI" <|-- "Control Experiment UI"
"Control Experiment UI" *-- "Instrument"</pre>
@enduml
```

Table 6. Functions (non private scope only)

Name	Connector pane	Description	s.	R.	I.
Process	Sequence Experiment UI [11] [3] Sequence Experiment UI out		o^	S	
		JKI State Machine Objects™			
		http://jki.net/state-machine-objects/			
		Copyright (C) 2005-2015, JKI <info@jki.net></info@jki.net>			
		ALL RIGHTS RESERVEDJKI State Machine			
		Objects (SMO) 1.0.0.5			
		JKI - JKI			
		Copyright (c) 2016, JKI			
Control	cti-UI	JKI State Machine Objects (SMO) 1.0.0.5			
Experiment	*				
UI.TestLaunc		JKI - JKI			
her					
		Copyright (c) 2016, JKI			

Scope: σ \rightarrow Protected | σ \rightarrow Community

Reentrancy: \blacksquare \rightarrow Preallocated reentrancy \mid \blacksquare \rightarrow Shared reentrancy

Inlining: \rightarrow Inlined

2.7. Control Experiment SM.lvclass

Responsibility: No description found (add content in lyclass description)

```
@startuml
set namespaceSeparator :
skinparam ClassBackgroundColor #FFFFFF
skinparam ClassBorderColor #555555
skinparam ClassFontColor #000000
skinparam ClassHeaderBackgroundColor #808080
skinparam top to bottom direction
class "Control Experiment SM" {
{field} -Experiment : Cluster
{field} +Wiring Configuration : Cluster
{field} +Instruments : Cluster
{field} +Comments : String
{field} -DAT Path : Path
{field} -dictionary : Datalog
{field} -AWS Credentials : Path
{field} -File Path : Path
{field} -Device Description : String
{static} {method} +Generate Comments()
{static} {method} +Comments.Add D()
{static} {method} +Comments.Add Wiring Description()
{static} {method} +Comments.Add Experiment Description()
{static} {method} +Comments.Add Sweep Description()
{static} {method} +Comments.Add Lockin Description()
{static} {method} +Comments.Create Lockin AO Description()
{static} {method} +Comments.Create Lockin REF Description()
{static} {method} +Comments.Create Lockin Sampling Description()
{static} {method} +D()
{static} {method} +Instrument Class Paths()
{static} {method} +Get Date Time ISO()
{static} {method} +Get Date Time For Filename()
{static} {method} +Find File()
{static} {method} +Load Instrument Classes()
{static} {method} +Multiply Gains()
{static} {method} +ElectrodesLabelsToPickeringChannels()
{static} {method} +Number to Letter()
{static} {method} +Letter to Number()
{static} {method} +DBL Variant or Array Variant to Array()
{static} {method} +D()
{static} {method} +Compare With Pr()
{static} {method} +Reset Counter()
{static} {method} +Open Experiment VI()
{static} {method} +Open Lockin()
{static} {method} +GetLocalComputerName()
```

```
{static} {method} +Initialize KH Array()
{static} {method} +Append Dictionary Element()
{static} {method} +Close Dictionary()
{static} {method} +Erase Comments()
{static} {method} +Get Channel Indices()
{static} {method} +Move Existing Config Files()
{static} {method} +Class XML FGV()
{static} {method} +Control Experiment FGV()
{static} {method} +Create Transport DAT File()
{static} {method} +Save Transport DAT File()
{static} {method} +Save Transport DAT File 2D()
{static} {method} +Save Transport ITX File()
{static} {method} +Save Transport TDMS File()
{static} {method} +Upload to S3()
{static} {method} +Save JSON File()
{static} {method} +Pickering 4 Wire PPMS DR Asynchronous()
{static} {method} +Pickering 4 Wire Asynchronous()
{static} {method} +PickeringReadConfig Asynchronous()
{static} {method} +PickeringWriteConfig Asynchronous()
{static} {method} +Asana Dictionary Get Value()
{static} {method} +Asana Dictionary Tasks Get Value()
{static} {method} +Test Upload to S3()
{static} {method} +Test Write()
{static} {method} +Control Experiment SM()
{static} {method} +Tree()
"Control Experiment SM" *-- "Instrument.KH7008"
"Control Experiment SM" *-- "Instrument.Lockin"
"Control Experiment SM" *-- "Instrument.Cryostat"
"Control Experiment SM" *-- "Instrument.CBridge"
"Control Experiment SM" *-- "Instrument.OpticalDelayLine"
"Control Experiment SM" *-- "Instrument.Strain"
"Control Experiment SM" *-- "Instrument.VNA"
@enduml
```

Table 7. Functions (non private scope only)

Name	Connector pane	Description	S.	R.	I.
Generate Comments	Control Experiment [10] [3] Control Experiment out error in (no error) [7] [2] Comments [6] error out	No description found (add content in vi description)			
Comments.A dd Device Description	Control Experiment in [11] [3] Control Experiment out error in (no error) [8] [0] error out	No description found (add content in vi description)			

Name	Connector pane	Description	s.	R.	I.
Comments.A dd Wiring Description	Control Experiment in [11] 3] Control Experiment out error in (no error) [8] 4bc [9] error out	No description found (add content in vi description)			
Comments.A dd Experiment Description	Control Experiment [10] [3] Control Experiment out error in (no error) [7] [0] error out	No description found (add content in vi description)			
Comments.A dd Sweep Description	Control Experiment in [11] [3] Control Experiment out error in (no error) [5] [5] [6] error out	No description found (add content in vi description)			
Comments.A dd Lockin Description	Control Experiment [10] [3] Control Experiment out error in (no error) [7] [9] (0] error out	No description found (add content in vi description)			
Comments.Cr eate Lockin AO Description	Control Experiment [10] [3] Control Experiment out [2] AO Section error in (no error) [7] [6] [7] [7] [7] [7] [7] [7] [7] [7] [7] [7	No description found (add content in vi description)			
Comments.Cr eate Lockin REF Description	Control Experiment [10] [3] Control Experiment out Far [2] REF Section error in (no error) [7] [5] [6] error out	No description found (add content in vi description)			
Comments.Cr eate Lockin Sampling Description	Control Experiment [10] [3] Control Experiment out Franks [2] Sampling Section [7] [7] [9] Error out	No description found (add content in vi description)			
Device and User DSC Paths	instrument [7] [3] Device Path	No description found (add content in vi description)			
Instrument Class Paths	instrument [7]	No description found (add content in vi description)			
Get Date Time ISO	error in (no error) [8] [7] [7] [8] [7] [7] [8] [7] [7] [7] [7] [7] [7] [7] [7] [7] [7	No description found (add content in vi description)			
Get Date Time For Filename	error in (no error) [8] [2] current time [1] date-time string [0] error out	No description found (add content in vi description)			
Find File	File Name [11] [3] Path error in (no error) [8] [0] error out	No description found (add content in vi description)			
Load Instrument Classes	Control Experiment.viclass [11] [3] Control Experiment out error in (no error) [8] [0] error out	No description found (add content in vi description)			

Name	Connector pane	Description	S.	R.	I.
Multiply Gains	Gain [2] Other Gain [1] [0] Gain x Other Gain	No description found (add content in vi description)			
ElectrodesLa belsToPickeri ngChannels	Control Experiment in [11] [3] Control Experiment out Electrodes [10] [2] X Channel Array error in (no error) [8] [9] [9] error out	No description found (add content in vi description)			
Number to Letter	Number [1] Strick 123 123 124 125	No description found (add content in vi description)			
Letter to Number	Letter [1] Columber [0] Number	No description found (add content in vi description)			
DBL Variant or Array Variant to Array	value [11] [3] Array	No description found (add content in vi description)			
Device and User PGSQL Paths	instrument [7] [3] Device Path	No description found (add content in vi description)			
Compare With Previous	Variant [3] [1] Not Equal?	No description found (add content in vi description)		P	
Reset Counter	Reset [3][1] Counter	No description found (add content in vi description)			
Open Experiment VI	Path [11]	No description found (add content in vi description)			
Open Lockin	error in (no error) [8] [0] error out	No description found (add content in vi description)			
GetLocalCom puterName	error in (no error) [8] [2] Name [1] Full Name [0] error out	No description found (add content in vi description)			
Initialize KH Array	Control in [11] **	No description found (add content in vi description)			
Write Dictionary Element	Control Experiment in [1] [3] Control Experiment out key [10] [7] [7] [7] [7] [7] [7] [7] [7] [7] [7	No description found (add content in vi description)			
Write Dictionary Elements (Loop)	Control Experiment in [11] [3] Control Experiment out keys [10] [0] error out error in (no error) [3]	No description found (add content in vi description)			
Append Dictionary Element	Control Experiment in [11] [3] Control Experiment out key [10] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9	No description found (add content in vi description)			

Name	Connector pane	Description	S.	R.	I.
Read All Dictionary Elements	Control Experiment in [11] error in (no error) [8] [3] Control Experiment out [7] error out	No description found (add content in vi description)			
Close Dictionary	Control Experiment in [11] [3] Control Experiment out error in (no error) [8] [0] error out	No description found (add content in vi description)			
Write Experiment Description	Control Experiment in [11] Experiment Description [10] error in (no error) [8] [0] error out	No description found (add content in vi description)		P	> □□
Write Experiment Folder	Control Experiment in [11] Experiment Folder [10] error in (no error) [8] [0] error out	No description found (add content in vi description)			
Write Sweep Element	Control Experiment in [11] key [10] value [9] error in (no error) [8] loop index [6]	No description found (add content in vi description)			
Read Device	Control Experiment in [11]	No description found (add content in vi description)		P	>
Read Experiment Path	Control Experiment in [11] Som Control Experiment out Som Control Experiment out Som Control Experiment Path Som Control Experiment Path Som Control Experiment Out	No description found (add content in vi description)		P	·>
Read Experiment Description	Control Experiment in [11] [3] Control Experiment out [2] Experiment Description error in (no error) [8] [0] error out	No description found (add content in vi description)		P	>
Erase Comments	Control Experiment in [11] [3] Control Experiment out error in (no error) [8] [0] error out	No description found (add content in vi description)		P	>
Read Comments	Control Experiment in [11] [3] Control Experiment out PS [2] Comments [2] Comments [3] Control Experiment out PS [3] [5] Comments [6] error out	No description found (add content in vi description)		P	>
Read Instruments	Control Experiment in [11] [3] Control Experiment out error in (no error) [8] [9] error out	No description found (add content in vi description)			
Get Channel Indices	Control Experiment in [11] [3] Control Experiment out error in (no error) [8] [2] Indices [0] error out	No description found (add content in vi description)			
Read Experiment Configuratio n	Control Experiment in [11] Coording Control Experiment out [2] Experiment Description Coording Coordina Coor	No description found (add content in vi description)		P	>
Read Wiring Configuratio n	Control Experiment in [11] Control Experiment out Control Experime	No description found (add content in vi description)		P	·>
Write Device Description JSON	Control Experiment in [11] [3] Control Experiment out Device Description JSON [10] [5] Control Experiment out Provided France (I) (I) (I) (I) (II) (II) (II) (II) (I	No description found (add content in vi description)		P	> >

Name	Connector pane	Description	S.	R.	I.
Write Experiment Description JSON	Control Experiment in [11] [3] Control Experiment out Experiment Description JSON [10] [9] [9] [9] [9] error out	No description found (add content in vi description)		P	>
Move Existing Config Files		No description found (add content in vi description)			
Class XML FGV	LabVIEW Object [11] [3] Control Experiment.Nclass out error in (no error) [8] [0] error out Function [6]	No description found (add content in vi description)			
Control Experiment FGV	Control Experiment.lvclass [11] [3] Control Experiment.lvclass out error in (no error) [6] [7] error out Function [8]	No description found (add content in vi description)			
Read Control Experiment.j son	SweepControl in [11] file (use dialog) [10] error in (no error) [8] [3] SweepControl out [2] output cluster [9] error out	No description found (add content in vi description)			
Create Transport DAT File	Control Experiment in [11] Wavenames 100 Wavenames 100 Gi error out append to existing file? (n [6]	No description found (add content in vi description)			
Save Transport DAT File	Control Experiment in [11] Data (Row) [10] error in (no error) [8] [0] error out	No description found (add content in vi description)			
Save Transport DAT File 2D	Control Experiment in [1] [3] Control Experiment out Data (Multiple Row) [10] [5] [6] [6] error out	No description found (add content in vi description)			
Save Transport ITX File	Control Experiment in [11] [3] Control Experiment out error in (no error) [8] [9] error out	No description found (add content in vi description)			
Save Transport TDMS File	Control Experiment in [11] append? [10] error in (no error) [8] [0] error out	No description found (add content in vi description)			
Upload to S3	Control Experiment in [11] [3] Control Experiment out error in (no error) [8] [0] error out	No description found (add content in vi description)			
Save JSON File	Control Experiment in [11] Data [10] Error in (no error) [3] Part 10 10 10 10 10 10 10 1	No description found (add content in vi description)			
Pickering 4 Wire PPMS DR Asynchronou s	Control Experiment in [11] Channel Cluster [10] error in (no error) [8] [9] error out	No description found (add content in vi description)			

Name	Connector pane	Description	S.	R.	I.
Pickering 4 Wire Asynchronou s	Control Experiment in [11] X Channel Array [10] Y Channel Array [9] error in [no error] [9]	No description found (add content in vi description)			
PickeringRea dConfig Asynchronou s	Control Experiment in [11] error in (no error) [8] error out [9] error out	No description found (add content in vi description)			
PickeringWri teConfig Asynchronou s	Control Experiment in [11] Pickering Confrig [10] error in (no error) [8] [0] error out	No description found (add content in vi description)			
Asana Dictionary Get Value	Data [11] [3] Value Key [10] [0] error out	No description found (add content in vi description)			
Asana Dictionary Tasks Get Value	data [11] [3] Value Key [10] [0] error out	No description found (add content in vi description)			
Test Upload to S3	WPLOAD S3	No description found (add content in vi description)			
Test Write	write file	No description found (add content in vi description)			
Control Experiment SM	eti-SM	Use this VI to help configure your experiment. 1. Choose Pickering or Not Pickering 2. Configure the Electrode control to show which electrode is connected to which lockin 3. Choose a Label for each electrode to configure Krohn Hite amplifier automatically 4. Easily set all Krohn Hite channels to be "all ground" or "all differential" mode 5. Fill out information about you and your device in the lower left corner 6. When you are finished, or when you want to update the amplifiers, click the "CREATE OUTPUT" button located in upper right. Clicking this button will set the amplifiers, Pickering switch (if you have one), and write information to a functional global variable that you can easily read from elsewhere in your program			

Name	Connector pane	Description	s.	R.	I.
Tree	cti-5M \$\frac{1}{2} \frac{1}{2} \frac	No description found (add content in vi description)			

Reentrancy: \blacksquare \rightarrow Preallocated reentrancy $\mid \blacksquare$ \rightarrow Shared reentrancy

Inlining: → Inlined

2.8. SweepControl.lvclass

Responsibility: By value SMO class with very small footprint. It includes a process and a launcher.

```
@startuml
set namespaceSeparator:
skinparam ClassBackgroundColor #FFFFFF
skinparam ClassBorderColor #555555
skinparam ClassFontColor #000000
skinparam ClassHeaderBackgroundColor #808080
skinparam top to bottom direction
class "SweepControl" {
{field} -Scan control : Array of Cluster
{field} -Scan parameters : Array of Cluster
{field} -Post action (indexing priority) : Array of Enum {}
{field} -Experiment : Enum {}
{field} -Sorted scan control : Array of Cluster
{field} +Sorted scan parameters : Array of Cluster
{field} +Parameter (Now) : Double Float
{field} +Control Experiment : LV Class
{field} -Scan parameters 2 : Array of Cluster
{field} -Sorted scan parameters 2 : Array of Cluster
{field} -Scan Parameters (now) : Cluster
{field} -Indices : Cluster
{field} -Stop? : Boolean
{field} -Sweep Lockin Array : Array of Cluster
{static} {method} +AppendDBLtoComments()
{static} {method} +Post action()
{static} {method} +Scan action()
{static} {method} +Sort Scan Parameters()
{static} {method} +Create Scan()
{static} {method} +Sweep Control Inner Loop()
{static} {method} +D-Lockin()
{static} {method} +Take Measurement()
{static} {method} +Sweep Control()
{static} {method} +Continuous B sweep()
{static} {method} +Sweep Control Cartesian()
{static} {method} +Sweep Control Loop()
{static} {method} +SweepControl.TestLauncher()
{method} #Process()
"SMO" < | -- "SweepControl"
"SweepControl" *-- "Control Experiment SM"
@enduml
```

Table 8. Functions (non private scope only)

Name	Connector pane	Description	S.	R.	I.
AppendDBLt oComments	Comments in [11] [3] Comments out Label [10] OBL OHTS	No description found (add content in vi description)			
Post action	SweepControl [11] PostAction [9] error in (no error) [8] Index [6]	No description found (add content in vi description)			
Scan action	SweepControl in [11] (3) SweepControl out (5) Some (7) Stop? (6) Error in (no error) [8] (7) Error out	No description found (add content in vi description)			
Sort Scan Parameters	SweepControl [1] SweepControl error in (no error) [8] SweepControl error in (no error) [8] SweepControl error in (no error) [9] SweepControl error in (no error) [8] SweepControl error in (no error	No description found (add content in vi description)			
Create Scan	SweepControl [11] Scan control [10] Scan parameter [9] Post action (indexing prior [6]	No description found (add content in vi description)			
Sweep Control Inner Loop	SweepControl in [11] loop # [10] inner loop index [9] error in (no error) [8]	No description found (add content in vi description)			
D-Lockin	SweepControl [11] Stop? [10] index [9] error in (no error) [8]	No description found (add content in vi description)			
Read Sorted scan parameters	SweepControl in [11] [3] SweepControl out [2] Sorted scan parameters [7] error out	No description found (add content in vi description)			
Read Sweep Configuratio n File	SweepControl in [11] Path [10] Path [10] Path [0] error out	No description found (add content in vi description)			
Read Sweep Configuratio n Example	SWEEP STATE OF THE	No description found (add content in vi description)			
Read Control Experiment	SweepControl in [11] [3] SweepControl out [2] Control Experiment [0] error out	No description found (add content in vi description)		P	>
Take Measuremen t	SweepControl in [11] Transport in [10] error in (no error) [8] initialize? [6] stop? [4] SweepControl [2] Transport out [7] C.E. [7] error out	No description found (add content in vi description)			
Read Parameter (Now)	SweepControl in [11] PARH (2) Parameter (Now) error in (no error) [8] (0) error out	No description found (add content in vi description)		P	·>
Read Sweep Control.json	SweepControl in [11] file (use dialog) [10] error in (no error) [8] [3] SweepControl out [2] data [6] error out	No description found (add content in vi description)			
Read Continuous B Sweep.json	SweepControl in [11] file (use dialog) [10] error in (no error) [8] [0] error out	No description found (add content in vi description)			

Name	Connector pane	Description	S.	R.	I.
Sweep Control	E	- Priority 0 is the fastest loop - You can put multiple scan names in one priority OFF has to be the last priority - Choose an Experiment (Lockin_Sweep, IV, etc) to run at each Scan Setting - Open the Exeriment subVIs to choose settings			
Continuous B sweep	Rate (I/min) [7] Max (end) [11] Min (start) [10] Simulate/Run [9] error in (no error) [8]	No description found (add content in vi description)			
Sweep Control Cartesian	N _i N _i	- Priority 0 is the fastest loop - You can put multiple scan names in one priority OFF has to be the last priority - Choose an Experiment (Lockin_Sweep, IV, etc) to run at each Scan Setting - Open the Exeriment subVIs to choose settings			
Sweep Control Loop	SweepControl in [11] error in (no error) [8]	No description found (add content in vi description)			
SweepContro l.TestLaunch er	SWEEP .	No description found (add content in vi description)			
Process	SweepControl [11] [3] SweepControl out error in [8] [0] error out	JKI State Machine Objects™ http://jki.net/state-machine-objects/ Copyright (C) 2005-2015, JKI <info@jki.net> ALL RIGHTS RESERVED</info@jki.net>	ď	5	

Reentrancy: \blacksquare \rightarrow Preallocated reentrancy $\mid \blacksquare$ \rightarrow Shared reentrancy

Inlining: → Inlined

2.9. Transport.lvclass

Responsibility: No description found (add content in lvclass description)

```
@startuml
set namespaceSeparator:
skinparam ClassBackgroundColor #FFFFFF
skinparam ClassBorderColor #555555
skinparam ClassFontColor #000000
skinparam ClassHeaderBackgroundColor #808080
skinparam top to bottom direction
class "Transport" {
{field} +Dependencies : Cluster
{field} -Notifier : Notifier
{static} {method} +Add Braces String()
{static} {method} +Add Braces Array()
{static} {method} +Add Braces()
{static} {method} +Calculate R and G - Four Terminal()
{static} {method} +Calculate R and G - Two Terminal()
{static} {method} +Decimate and Filter()
{static} {method} +GraphLockin_vs_Parameter()
{static} {method} +2D Results to X and Y Arrays()
{static} {method} +Create Keys (AI)()
{static} {method} +Create Keys (AO)()
{static} {method} +Exec State to Append()
{static} {method} +Append Waveform if new()
{static} {method} +IV()
{static} {method} +IV_Sweep()
{static} {method} +Lockin time()
{static} {method} +Lockin_Vsg()
{static} {method} +Lockin_sweep()
{static} {method} +Lockin AIWFM time()
{static} {method} +Lockin()
{static} {method} +THz_TimeDelay()
{static} {method} +Sweep AIWFM time()
{static} {method} +Temp Sweep Control()
"Transport" *-- "SweepControl"
"Transport" *-- "Control Experiment SM"
@enduml
```

Table 9. Functions (non private scope only)

Name	Connector pane	Description	S.	R.	I.
Add Braces String	String in [1] ***********************************	No description found (add content in vi description)			
Add Braces Array	String in [1] ***********************************	No description found (add content in vi description)			

Name	Connector pane	Description	s.	R.	I.
Calculate R and G - Four Terminal	Current [10] (Gez/h) (2] G_4T (e2/h) (V- [8]	No description found (add content in vi description)			
Calculate R and G - Two Terminal	Lockin [] [11] (65) [3] R_2T (Ohms) AO Amp (V) [10] (65) [2] G_2T (Siemens) Current [9] (Vsource [8]	No description found (add content in vi description)			
Decimate and Filter	Waveform in [11] [3] Decimated and Filtered Array decimating factor [10] [5] [6] error out error in (no error) [8] [6] Enabled? [6]	No description found (add content in vi description)			
GraphLockin _vs_Paramete r	reset? [7] X[] [1] Y[] [10] Parameter Y[] [10] Parameter [9] Current [8] V- [4] V- [4]	No description found (add content in vi description)			
2D Results to X and Y Arrays	Results [11]	No description found (add content in vi description)			
Create Keys (AI)	Numeric [3] [1] Al Keys	No description found (add content in vi description)			
Create Keys (AO)	Numeric [3] ***********************************	No description found (add content in vi description)			
Exec State to Append	Execution:State [3] (1) append?	No description found (add content in vi description)			
Append Waveform if new	Waveforms in [11] (Samurana (13) Al Waveforms out New Waveform [10] (Samurana (14) Al Waveform [10] (Samurana (14)	No description found (add content in vi description)			
Read Dependencie s	Transport in [11] [3] Transport out [2] Dependencies [0] error out	No description found (add content in vi description)		P	>
Write Dependencie s	Transport in [11] SweepControl [10] Control Experiment [9] error in (no error) [8]	No description found (add content in vi description)		P	>
Write notifier	Transport in [11] [3] [3] Transport out notifier [10] [6] [7] [7] [7] [7] [7] [7] [7] [7] [7] [7	No description found (add content in vi description)		P	>
Read Lockin_Vsg.js on	Transport in [11] [3] Transport out file (use dialog) [10] [5] [7] [7] [7] [7] [7] [7] [7] [7] [7] [7	No description found (add content in vi description)			
Read Lockin_Swee p.json	Transport in [11] file (use dialog) [10] error in (no error) [8] [2] Configure Sweep error in (no error) [8]	No description found (add content in vi description)			
IV	error in [8] [0] error out	No description found (add content in vi description)			

Name	Connector pane	Description	S.	R.	I.
IV_Sweep	Transport [11] COCCO (12191) COCCO [3] Transport out error in [8]	No description found (add content in vi description)			
Lockin_time	Transport [11] Occoor [1] Company [3] Transport out	No description found (add content in vi description)			
Lockin_Vsg	Transport [11] (3] Transport out error in (no error) [8] (0) error out	No description found (add content in vi description)			
Lockin_swee	Transport [11] [3] Transport out Sweep Lockin cluster [10] [7] [7] [7] [7] [7] [7] [7] [7] [7] [7	No description found (add content in vi description)			
Lockin_AIWF M_time	Transport [11] **********************************	No description found (add content in vi description)			
Lockin	Transport [11] (3] [3] Transport out error in (no error) [8] (0] error out stop? [4]	No description found (add content in vi description)			
THz_TimeDel ay	Transport [11] [3] [3] Transport out error in (no error) [8]	No description found (add content in vi description)			
Sweep_AIWF M_time	Transport.lvclass [11] Coccool [17] Transport.lvclass [17] Coccool [3] Transport.lvclass error in (no error) [8] [0] error out	No description found (add content in vi description)			
Temp Sweep Control	1	No description found (add content in vi description)			

Reentrancy: \blacksquare \rightarrow Preallocated reentrancy \mid \blacksquare \rightarrow Shared reentrancy

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Section 3. Legal Information

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Project website: Asciidoc toolkit

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3.1.4. classy Diagram Viewer

Project website: classy Diagram Viewer

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