

Badger

Project: Badger

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API Reference

- [Badger.Data.CaliburnUtility](#)
- [Badger.Data.LogFileUtils](#)
- [Badger.Data.TrackGroup](#)
- [Badger.Files](#)
- [Badger.ViewModels.ConfigNodeViewModel](#)
- [Badger.ViewModels.EditorWindowViewModel](#)
- [Badger.ViewModels.ExperimentViewModel](#)
- [Badger.ViewModels.FunctionLogViewModel](#)
- [Badger.ViewModels.HerdAgentSelectionViewModel](#)
- [Badger.ViewModels.HerdAgentViewModel](#)
- [Badger.ViewModels.LinkedNodeViewModel](#)
- [Badger.ViewModels.LoggedExperimentalUnitViewModel](#)
- [Badger.ViewModels.LoggedExperimentViewModel](#)
- [Badger.ViewModels.LoggedForkViewModel](#)
- [Badger.ViewModels.LoggedVariableViewModel](#)
- [Badger.ViewModels.LogQueryResultViewModel](#)
- [Badger.ViewModels.LogQueryViewModel](#)
- [Badger.ViewModels.MainWindowViewModel](#)
- [Badger.ViewModels.MonitoredExperimentalUnitViewModel](#)
- [Badger.ViewModels.MonitoredJobViewModel](#)
- [Badger.ViewModels.MonitorWindowViewModel](#)
- [Badger.ViewModels.PlotPropertiesViewModel](#)
- [Badger.ViewModels.PlotViewModel](#)
- [Badger.ViewModels.ShepherdViewModel](#)

Badger.Data.Caliburnutility

Class Badger.Data.CaliburnUtility

Source: *CaliburnUtility.cs*

Methods

```
void ShowPopupWindow(PropertyChangedBase viewModel, string windowHeader, bool isDialog = true)
```

- **Summary**

Show a pop-up window, can be a dialog, which once showed up does not allow interaction with the background window. It also can be an independent window, which does allow interaction with any other window of the application.

- **Parameters**

- *viewModel*: ViewModel to be shown in the pop-up window
- *windowHeader*: Title of the window.
- *isDialog*: Whether its a dialog or a window.

```
string SelectFolder(string initialDirectory)
```

- **Summary**

Show an emergent dialog to allow users to select directory paths.

- **Parameters**

- *initialDirectory*: Where everything starts.

- **Return Value**

Show an emergent dialog to allow users to select directory paths.

Badger.Data.Logfileutils

Class Badger.Data.LogFileUtils

Source: *LogFileUtils.cs*

Methods

```
Series GetVariableData(Log.EpisodesData episode, Report trackParameters, int variableIndex)
```

- **Summary**

Gets the data of a variable from an episode using the parameters of the target track

- **Parameters**

- *episode*: The episode
- *trackParameters*: The track parameters
- *variableIndex*: Index of the variable

- **Return Value**

Gets the data of a variable from an episode using the parameters of the target track

```
double GetEpisodeAverage(Log.EpisodesData episode, int variableIndex, Report trackParameters)
```

- **Summary**

Gets the average value of a variable in an episode using the track parameters

- **Parameters**

- *episode*: The episode
- *variableIndex*: Index of the variable
- *trackParameters*: The track parameters

- **Return Value**

Gets the average value of a variable in an episode using the track parameters

```
SeriesGroup GetAveragedData(List episodes, Report trackParameters, int variableIndex)
```

- **Summary**

Gets the averaged data of the given variable from a list of episodes using the track parameters

- **Parameters**

- *episodes*: The episode list
- *trackParameters*: The track parameters
- *variableIndex*: Index of the variable

- **Return Value**

Gets the averaged data of the given variable from a list of episodes using the track parameters

```
Track LoadTrackData(LoggedExperimentalUnitViewModel expUnit, List reports)
```

- **Summary**

Creates a Track object from a logged experimental unit and a list of reports

- **Parameters**

- *expUnit*: The logged experimental unit
- *reports*: The list of reports we want
- **Return Value**
Creates a Track object from a logged experimental unit and a list of reports

Badger.Data.Trackgroup

Class Badger.Data.TrackGroup

Source: *TrackGroup.cs*

Methods

```
void Consolidate(string inGroupSelectionFunction, string inGroupSelectionVariable, string inGroupSelectionReportType
, BindableCollection groupBy)
```

- **Summary**

When grouping tracks by a fork, this function must be called to select a track inside the group. We call this "consolidating" the track group.

- **Parameters**

- *inGroupSelectionFunction*: The function used to compare tracks inside the group
- *inGroupSelectionVariable*: The variable used to evaluate tracks
- *groupBy*: The list of forks used to group tracks

Badger.Files

Class Badger.Files

Source: *Files.cs*

Methods

```
int SaveExperimentBatchFile(BindableCollection experiments,
string batchFilename, LogFunction log, ProgressUpdateFunction progressUpdateFunction)
```

- **Summary**

Save an experiment batch: the list of (possibly forked) experiments is saved as a set of experiments without forks and a .exp-batch file in the root directory referencing them all and the forks/values each one took.

- **Parameters**

- *experiments*:
- *batchFilename*:
- *log*:

- **Return Value**

Save an experiment batch: the list of (possibly forked) experiments is saved as a set of experiments without forks and a .exp-batch file in the root directory referencing them all and the forks/values each one took.

```
SaveFileDialog SaveFileDialog(string description, string filter, string suggestedFileName= null)
```

- **Summary**

Show a dialog used to save a file with an specific extension.

- **Parameters**

- *description*: Short description of the file type
- *filter*: Extension
- *suggestedFileName*: Name suggested for output. Null by default

- **Return Value**

Show a dialog used to save a file with an specific extension.

```
string SelectOutputDirectoryDialog(string initialDirectory= null)
```

- **Summary**

Shows a dialog used to select a directory where files are to be saved. If something goes wrong, null is returned

- **Parameters**

- *initialDirectory*: The directory from which to begin browsing

- **Return Value**

Shows a dialog used to select a directory where files are to be saved. If something goes wrong, null is returned

```
bool OpenFileDialog(ref string fileName, string description, string extension)
```

- **Summary**

Open a file that fulfills the requirements passed as parameters.

- **Parameters**

- *fileName*: The name of the file
- *description*: Description of the file type
- *extension*: The extension of the file type

- **Return Value**

Open a file that fulfills the requirements passed as parameters.

Badger.Viewmodels.Confignodeviewmodel

Class Badger.ViewModels.ConfigNodeViewModel

Source: *ConfigNodeViewModel.cs*

Methods

```
void ForkThisNode(ConfigNodeViewModel originNode)
```

- **Summary**

Forks this node

- **Parameters**

- *originNode*: The origin node.

```
void LinkThisNode(ConfigNodeViewModel originNode)
```

- **Summary**

Take the right-clicked node as the origin node to link with all the possible linkable nodes (i.e. nodes of the same class). Linkable nodes *CanBeLinked* property value are set to true.

- **Parameters**

- *originNode*: The origin node of the linking process

```
void CancelLinking(ConfigNodeViewModel originNode)
```

- **Summary**

Cancel a linking process between two nodes.

```
void Link(ConfigNodeViewModel targetNode)
```

- **Summary**

Actually perform the linking with the node.

- **Parameters**

- *targetNode*:

```
void UnlinkNode()
```

- **Summary**

Unlink the node removing it from its origin linked nodes list and restore it to its original node class.

Badger.Viewmodels.Editorwindowviewmodel

Class Badger.ViewModels.EditorWindowViewModel

Source: EditorWindowViewModel.cs

Methods

void NewExperiment()

- **Summary**

Creates a new experiment and adds it to the Editor tab

void SaveSelectedExperimentOrProject()

- **Summary**

Saves the selected experiment or project

void LoadExperimentalUnit(string experimentalUnitConfigFile)

- **Summary**

Loads an experimental unit on the Editor tab. This method can be used from any child window to load experimental units (i.e, from the ReportViewer)

- **Parameters**

- *experimentalUnitConfigFile*: The experimental unit file.

void LoadExperimentOrProject()

- **Summary**

Shows a dialog window where the user can select an experiment or project for loading

void ClearExperiments()

- **Summary**

Clears the experiments tab

void Close(ExperimentViewModel e)

- **Summary**

Close a tab (experiment view) and removes it from experiments list.

- **Parameters**

- *e*: The experiment to be removed

void RunExperimentalUnitLocallyWithCurrentParameters(ExperimentViewModel experiment)

- **Summary**

Runs locally the experiment with its currently selected parameters

- **Parameters**

- *experiment*: The experiment to be run

void ShowWires(ExperimentViewModel experiment)

- **Summary**

Shows the wires defined in the current experiment

- **Parameters**

- *experiment*: The selected experiment

void RunExperimentsInEditor()

- **Summary**

Runs all the experiments open in the editor. Saves a batch file read by the experiment monitor, and also a project to be able to modify the experiment and rerun it later

Badger.Viewmodels.Experimentviewmodel

Class Badger.ViewModels.ExperimentViewModel

Source: *ExperimentViewModel.cs*

Methods

```
public ExperimentViewModel(string appDefinitionFileName, string configFilename)
```

- **Summary**

This constructor builds the whole tree of ConfigNodes either - with default values ("New") or - with a configuration file ("Load")

- **Parameters**

- *appDefinitionFileName*:
- *configFilename*:

```
void ShowWires()
```

- **Summary**

Shows a new window with the wires used in the experiment

```
ConfigNodeViewModel DepthFirstSearch(string nodeName, string alias = "")
```

- **Summary**

Implementation of depth first search algorithm for experiment tree.

- **Parameters**

- *targetNode*:

```
ConfigNodeViewModel DepthFirstSearch(ConfigNodeViewModel targetNode)
```

- **Summary**

Implementation of depth first search algorithm for experiment tree.

- **Parameters**

- *targetNode*:

```
void CheckLinkableNodes(ConfigNodeViewModel originNode, bool link = true)
```

- **Summary**

- **Parameters**

- *originNode*:
- *link*:

Badger.Viewmodels.Functionlogviewmodel

Class Badger.ViewModels.FunctionLogViewModel

Source: *FunctionLogViewModel.cs*

Methods

```
void NextFunction()
```

- **Summary**

Shows the first sample of the next function in the log

```
void NextSample()
```

- **Summary**

Shows the next sample of the current function

```
void PreviousFunction()
```

- **Summary**

Shows the first sample of the previous the function in the log

```
void PreviousSample ()
```

- **Summary**

Shows the previous the sample of the current function

```
void ExportAll ()
```

- **Summary**

Exports all the function samples, each one in a different "png" file

Badger.Viewmodels.Herdagentselectionviewmodel

Class Badger.ViewModels.HerdAgentSelectionViewModel

Source: *HerdAgentSelectionViewModel.cs*

Methods

```
void AddInOrder(BindableCollection<int> intList, int newInt)
```

- **Summary**

Adds in order to a list of ints if input int is not on the list

- **Parameters**

- *intList*: in-out list where the new integer is added
- *newInt*: new integer to be added to the list

```
void AddInOrder(BindableCollection<string> stringList, string newString)
```

- **Summary**

Adds in order to a list of strings if input string is not on the list, assuming all strings are formatted using version numbers or ip addresses (xxx.xxx.xxx.xxx)

- **Parameters**

- *stringList*: in-out string list
- *newString*: new string to be added

Badger.Viewmodels.Herdagentviewmodel

Class Badger.ViewModels.HerdAgentViewModel

Source: *HerdAgentViewModel.cs*

Methods

```
bool IsLocalIpAddress(string host)
```

- **Summary**

Determines whether an IP address is local

- **Parameters**

- *host*: The IP address

Badger.Viewmodels.Linkedinodeviewmodel

Class Badger.ViewModels.LinkedExceptionViewModel

Source: *LinkedExceptionViewModel.cs*

Methods

```
public LinkedExceptionViewModel(ExperimentViewModel parentExperiment, ConfigNodeViewModel originNode, ConfigNodeViewModel targetNode)
```

- **Summary**

Constructor used from the experiment editor

- **Parameters**

- *parentExperiment*:
- *originNode*:
- *targetNode*:

```
`public LinkedNodeViewModel(ExperimentViewModel parentExperiment, ConfigNodeViewModel parentNode,
XmlNode classDefinition, XmlNode configNode = null)`
```

- **Summary**

Constructor called when loading an experiment config file

- **Parameters**

- *parentExperiment*:
- *parentNode*:
- *classDefinition*: Class of the node in app definitions
- *parentXPath*:
- *configNode*: Node in simion.exp file with the configuration for a node class

```
void CreateLinkedNode()
```

- **Summary**

Badger.Viewmodels.Loggedexperimentalunitviewmodel

Class Badger.ViewModels.LoggedExperimentalUnitViewModel

Source: *LoggedExperimentalUnitViewModel.cs*

Methods

```
public LoggedExperimentalUnitViewModel(string filename)
```

- **Summary**

Fake constructor for testing purposes

- **Parameters**

- *filename*: path to the experimental unit

```
public LoggedExperimentalUnitViewModel(ExperimentalUnit model)
```

- **Summary**

Main constructor

- **Parameters**

- *configNode*:
- *baseDirectory*:
- *updateFunction*:

```
int GetVariableIndex(string variableName)
```

- **Summary**

Gets the index of a variable

- **Parameters**

- *variableName*: Name of the variable

- **Return Value**

Gets the index of a variable

Badger.Viewmodels.Loggedexperimentviewmodel

Class Badger.ViewModels.LoggedExperimentViewModel

Source: *LoggedExperimentViewModel.cs*

Methods

```
public LoggedExperimentViewModel(Experiment experiment)
```

- **Summary**

Class constructor.

- **Parameters**

- *experiment*: The experiment with all the data used in the view model

```
void AddVariable(string variableName)
```

- **Summary**

Call after reading the log file descriptor of each experimental unit

- **Parameters**

- *variableName*:

Badger.Viewmodels.Loggedforkviewmodel

Class Badger.ViewModels.LoggedForkViewModel

Source: *LoggedForkViewModel.cs*

Methods

```
void GroupByThisFork()
```

- **Summary**

Method is called from the context menu informs the parent window that results should be grouped by this fork.

Badger.Viewmodels.Loggedvariableviewmodel

Class Badger.ViewModels.LoggedVariableViewModel

Source: *LoggedVariableViewModel.cs*

Methods

```
void SetNotifying(bool notifying)
```

- **Summary**

Sets the notifying property. Needs to be used after loading a view model from a file

- **Parameters**

- *notifying*: the value to be set

Badger.Viewmodels.Logqueryresultviewmodel

Class Badger.ViewModels.LogQueryResultViewModel

Source: *LogQueryResultViewModel.cs*

Methods

```
void ImportNonSerializable(string inputBaseFolder)
```

- **Summary**

Imports non serializable data

- **Parameters**

- *inputBaseFolder*: The input base folder.

```
void SetNotifying(bool notifying)
```

- **Summary**

Sets the notifying property. Needs to be set after loading serialized data

- **Parameters**

- *notifying*: The value set

Badger.Viewmodels.Logqueryviewmodel

Class Badger.ViewModels.LogQueryViewModel

Source: *LogQueryViewModel.cs*

Methods

```
void AddGroupByFork(string forkName)
```

- **Summary**

Adds the fork to the list of group-by forks

- **Parameters**

- *forkName*: Name of the fork.

```
bool IsForkUsedToGroup(string forkName)
```

- **Summary**

Returns whether a fork is used to group tracks or not

- **Parameters**

- *forkName*: Name of the fork

```
void ResetGroupBy()
```

- **Summary**

Resets the forks used to group tracks

```
string GetVariableProcessFunc(string variable)
```

- **Summary**

Gets the process function used for the variable

- **Parameters**

- *variable*: The variable.

- **Return Value**

Gets the process function used for the variable

```
bool IsVariableSelected(string variable, string reportType)
```

- **Summary**

Returns whether the specified variable-reportType is selected

- **Parameters**

- *variable*: The variable
- *reportType*: Type of the report

```
void AddLogVariables(List variables)
```

- **Summary**

Adds the variables to the list of variables in the log. Called when loading a logged experimental unit

- **Parameters**

- *variables*: The variables

```
bool LogVariableExists(string variable)
```

- **Summary**

Returns whether the variable exists in the log or not

- **Parameters**

- *variable*: The variable.

```
void Validate()
```

- **Summary**

This function validates the current query and sets CanGenerateReports accordingly

```
void Execute(BindableCollection experiments
```

```
, LoadOptions.PerExperimentalUnitFunction OnExpUnitProcessed, out List resultTracks, out List reports)
```

- **Summary**

Executes the specified query.

- **Parameters**

- *experiments*: The list of logged experiments on which the query will be processed
- *OnExpUnitProcessed*: Callback function called when an exp unit is processed. Used to update the progress
- *resultTracks*: Output list of track groups
- *reports*: Output list of reports

Badger.Viewmodels.Mainwindowviewmodel

Class Badger.ViewModels.MainWindowViewModel

Source: *MainWindowViewModel.cs*

Methods

```
public MainWindowViewModel()
```

- **Summary**

Class constructor.

```
void ShowReportWindow()
```

- **Summary**

Show the report viewer tab

```
void ShowExperimentMonitor()
```

- **Summary**

Shows the experiment monitor tab

```
void ShowEditorWindow()
```

- **Summary**

Shows the editor tab

```
void LogToFile(string logMessage)
```

- **Summary**

Logs a message with the current time-date. If the Badger log file doesn't exist, it creates it. Uses a lock to avoid multi-thread issues

- **Parameters**

- *logMessage*: The log message.

Badger.Viewmodels.Monitoredexperimentalunitviewmodel

Class Badger.ViewModels.MonitoredExperimentalUnitViewModel

Source: *MonitoredExperimentalUnitViewModel.cs*

Methods

```
public MonitoredExperimentalUnitViewModel(ExperimentalUnit expUnit, PlotViewModel plot)
```

- **Summary**

Constructor

- **Parameters**

- *expUnit*: The model: an instance of ExperimentalUnit
- *plot*: The plot used to monitor data

```
void AddEvaluationValue(double xNorm, double y)
```

- **Summary**

Adds a (xNorm,y) value to the series of evaluations.

- **Parameters**

- *xNorm*: The normalized value in x (0 is the beginning and 1 the end of the experiment)
- *y*: The average reward obtained in this evaluation

Badger.Viewmodels.Monitoredjobviewmodel

Class Badger.ViewModels.MonitoredJobViewModel

Source: *MonitoredJobViewModel.cs*

Methods

```
void OnMessageReceived(string experimentId, string messageId, string messageContent)
```

- **Summary**

Callback method that is called from the job dispatcher when a message is received

- **Parameters**

- *experimentId*: The experiment identifier
- *messageId*: The message identifier
- *messageContent*: Content of the message

```
void OnStateChanged(string experimentId, Monitoring.State state)
```

- **Summary**

Called method executed when the state of an experimental unit changes

- **Parameters**

- *experimentId*: The experiment identifier
- *state*: The state

```
void OnAllStatesChanged(Monitoring.State state)
```

- **Summary**

Callback method called when the state of all the experimental unit in a job changes

- **Parameters**

- *state*: The state.

```
void OnExperimentalUnitLaunched(ExperimentalUnit expUnit)
```

- **Summary**

Callback method executed when an experimental unit is launched

- **Parameters**

- *expUnit*: The expererimental unit

Badger.Viewmodels.Monitorwindowviewmodel

Class Badger.ViewModels.MonitorWindowViewModel

Source: *MonitorWindowViewModel.cs*

Methods

public MonitorWindowViewModel()

- **Summary**

Constructor.

- **Parameters**

- *MainWindowViewModel.Instance.LogToFile:*
- *batchFileName:*

void CleanExperimentBatch()

- **Summary**

Deletes all the log files in the batch

void RunExperimentBatch()

- **Summary**

Runs the selected experiment in the experiment editor.

void ShowReports()

- **Summary**

Shows a Report window with the data of the currently finished experiment(s) already load and ready to make reports.

void SelectExperimentBatchFile()

- **Summary**

Shows a dialog to select which experiment batch file to load and loads it

bool LoadExperimentBatch(string batchFileName)

- **Summary**

Initializes the experiments to be monitored through a batch file that contains all required data for the task.

- **Parameters**

- *batchFileName:* The batch file with experiment data

void DispatchOnMessageReceived(Job job, string experimentId, string messageId, string messageContent)

- **Summary**

Callback method on message received. It dispatches it to the job view model of the job passes as argument

- **Parameters**

- *job:* The job
- *experimentId:* The identifier of the experimental unit
- *messageId:* The message identifier
- *messageContent:* Content of the message

void DispatchOnStateChanged(Job job, string experimentId, Monitoring.State state)

- **Summary**

Callback method executed when the state of an experimental unit changes. This method dispatches it to the correct job view model handling that job

- **Parameters**

- *job:* The job
- *experimentId:* The experiment identifier
- *state:* The state

```
void DispatchOnAllStatesChanged(Job job, Monitoring.State state)
```

- **Summary**

Callback method called when all the states of a job change. It dispatches the change to the correct job view model handling that job

- **Parameters**

- *job*: The job
- *state*: The state

```
void DispatchOnExperimentalUnitLaunched(Job job, ExperimentalUnit expUnit)
```

- **Summary**

Callback method on experimental unit launched that dispatches the event to the correct job view model

- **Parameters**

- *job*: The job
- *expUnit*: The exp unit

```
void OnJobAssigned(Job job)
```

- **Summary**

Callback method used to inform the monitor window view model when that a job has been assigned

- **Parameters**

- *job*: The job.

```
void OnJobFinished(Job job)
```

- **Summary**

Callback method executed when a job is finished

- **Parameters**

- *job*: The job.

```
void SetRunning(bool running)
```

- **Summary**

Sets the state as running

```
void RunExperimentsAsync(List freeHerdAgents)
```

- **Summary**

Async method that runs all the experiments using the free herd agents

- **Parameters**

- *freeHerdAgents*: The free herd agents.

```
bool ExistsRequiredFile(string file)
```

- **Summary**

Checks whether a required file to run an experiment exists or not.

- **Parameters**

- *file*: The file to check

- **Return Value**

Checks whether a required file to run an experiment exists or not.

```
double CalculateGlobalProgress()
```

- **Summary**

Calculate the global progress of experiments in queue.

- **Return Value**

Calculate the global progress of experiments in queue.

```
void StopExperiments()
```

- **Summary**

Stops all experiments in progress.

Badger.Viewmodels.Plotpropertiesviewmodel

Class Badger.ViewModels.PlotPropertiesViewModel

Source: *PlotPropertiesViewModel.cs*

Methods

```
void HighlightSeries(int seriesId)
```

- **Summary**

Highlight a series

- **Parameters**

- *seriesId*:

```
void DimLineSeriesColor(PlotLineSeriesPropertiesViewModel lineSeriesProperties)
```

- **Summary**

Apply some opacity to the original color of the LineSeries.

- **Parameters**

- *lineSeriesProperties*:

```
void ResetLineSeriesOpacity(PlotLineSeriesPropertiesViewModel lineSeriesProperties)
```

- **Summary**

Restore the original color of the LineSeries.

- **Parameters**

- *lineSeriesProperties*:

Badger.Viewmodels.Plotviewmodel

Class Badger.ViewModels.PlotViewModel

Source: *PlotViewModel.cs*

Methods

```
void ResetAxes()
```

- **Summary**

Resets the axes of the plot to the default range [0,1]

```
void InitPlot(string title, string xAxisName, string yAxisName)
```

- **Summary**

Initializes the plot

- **Parameters**

- *title*: The title
- *xAxisName*: Name of the x axis
- *yAxisName*: Name of the y axis

```
int AddLineSeries(string title, string description = "", bool isVisible = true)
```

- **Summary**

Adds a line series to the plot

- **Parameters**

- *title*: The title of the series
- *description*: The description of the series
- *isVisible*: Initial visibility given to the series

- **Return Value**

Adds a line series to the plot

```
void AddLineSeriesValue(int seriesIndex, double xValue, double yValue)
```

- **Summary**

Adds a vale to a given line series

- **Parameters**

- *seriesIndex*: Index of the series
- *xValue*: The x value
- *yValue*: The y value

```
void ClearLineSeries()
```

- **Summary**

Clears the line series.

```
void HighlightLineSeries(int seriesId)
```

- **Summary**

Identify which LineSeries is hovered and make a call to the dimLineSeriesColor method passing the correct LineSeriesProperties object as parameter. In order to highlight a LineSeries what we actually do is to dim, that is, apply certain opacity, to all the other LineSeries.

- **Parameters**

- *seriesId*: Id of the LineSeries to be highlighted

```
void ResetLineSeriesColors()
```

- **Summary**

Reset all LineSeries color to its original, removing the opacity in case that some was applied before by the highlightLineSeries method.

Badger.Viewmodels.Shepherdviewmodel

Class Badger.ViewModels.ShepherdViewModel

Source: *ShepherdViewModel.cs*

Methods

```
int GetAvailableHerdAgents(ref List outList)
```

- **Summary**

Gets the available herd agents.

- **Parameters**

- *outList*: The out list where the herd agents are added.

- **Return Value**

Gets the available herd agents.

```
void SelectHerdAgents()
```

- **Summary**

Shows a pop-up window where the user to select/deselect herd agents

```
void ConfigureJobDispatcher()
```

- **Summary**

Shows a pop-up window where the user can configure the job dispatcher