

# Timee Plugins Guide

1. Create class library Project
2. Add references:
  - a. TimeeBridge.dll (located In Timee/Plugins)
  - b. System.ComponentModel.Composition
3. Implement Interface "IPlugins" from TimeeBridge.dll
4. Add Class Attributes:
  - a. `[Export(typeof(TimeeBridge.IPlugins))]`
  - b. `[ExportMetadata("Name", "Plugin name displayed in menu")]`
  - c. `[ExportMetadata("Return", "Return Type (see 2nd page)"]`
  - d. `[ExportMetadata("Group", "Submenu name")]`
5. Main plugin functionality should be in `public void Start()`

## Sample Plugin

```
namespace SamplePlugin
{
    [Export(typeof(TimeeBridge.IPlugins))]
    [ExportMetadata("Name", "Export MainTasks to Notepad")]
    [ExportMetadata("Return", "None")]
    [ExportMetadata("Group", "Samples")]
    public class NotepadExport : TimeeBridge.IPlugins
    {
        //Strongly typed Dataset used in Timee
        private TimeeBridge.TimeeDataSet grdMainTasks = new TimeeBridge.TimeeDataSet();
        //Contains Names of columns in Timee DataGridView (for easier navigation)
        private TimeeBridge.TimeeDataSet.TimeSheetTableRow row;
        // Plugin main function (this function is started by timee)
        public void Start()
        {
            //Copy Timee DatagridView Elements to plugin
            // TimeeBridge.TimeeValues class contains all Timee variables you can use
            this.grdMainTasks.Merge(TimeeBridge.TimeeValues.MainTasksDataSet);
            //check if there is anything to export
            if (TimeeBridge.TimeeValues.MainTasksDataSet.Tables[0].Rows.Count == 0)
            {
                MessageBox.Show("Nothing to Export!", "Error", MessageBoxButtons.OK, MessageBoxIcon.Error);
                return;
            }
            using (System.IO.StreamWriter file = new System.IO.StreamWriter(@"\sample.txt"))
            {
                row = this.grdMainTasks.TimeSheetTable.NewTimeSheetTableRow();
                //iterate through all entries
                for (int i = 0; i < TimeeBridge.TimeeValues.MainTasksDataSet.Tables[0].Rows.Count; i++)
                {
                    row.ItemArray = TimeeBridge.TimeeValues.MainTasksDataSet.Tables[0].Rows[i].ItemArray;
                    //new line contained all information from DataGridView Row (ex. Project name, Task name etc.)
                    string line = string.Format("{0}#{1}#{2}#{3}#{4}#{5}#{6}", row.Date, row.Time,
row.Project, row.SubProject, row.Task, row.Comment, row.Location);
                    file.WriteLine(line);
                }
            }
        }
    }

    [Export(typeof(TimeeBridge.IPlugins))]
    [ExportMetadata("Name", "Import MainTasks from Notepad")]
    [ExportMetadata("Return", "None")]
    [ExportMetadata("Group", "Samples")]
    public class NotepadImport : TimeeBridge.IPlugins
    {
        //Strongly typed Dataset used in Timee
        private TimeeBridge.TimeeDataSet grdMainTasks = new TimeeBridge.TimeeDataSet();
        //Contains Names of columns in Timee DataGridView (for easier navigation)
        private TimeeBridge.TimeeDataSet.TimeSheetTableRow row;
        public void Start()
        {
            // TimeeBridge.TimeeValues class contains all Timee variables you can use
            //iterate through file and write each line data to Timee grid row
            using (System.IO.StreamReader file = new System.IO.StreamReader(@"\sample.txt"))
            {
                row = this.grdMainTasks.TimeSheetTable.NewTimeSheetTableRow();
                while (!file.EndOfStream)
                {
                    string line = file.ReadLine();
                    if (line != null && line.Contains("#"))
                    {
                        string[] fileRow = line.Split('#');
                        row.Date = Convert.ToDateTime(fileRow[0]);
                        row.Time = TimeSpan.Parse(fileRow[1]);
                        row.Project = fileRow[2];
                        row.SubProject = fileRow[3];
                        row.Task = fileRow[4];
                        row.Comment = fileRow[5];
                        row.Location = fileRow[6];
                        //add new row to Timee Datagrid
                        TimeeBridge.TimeeValues.MainTasksDataSet.Tables[0].Rows.Add(row.ItemArray);
                    }
                }
            }
        }
    }
}
```

# Documentation

1. Timee Values (located in `TimeeBridge.TimeeValues`):
  - **MainTasksDataSet** - Timee Main table
  - **PredefinedTasksDataSet** - PredefinedTasks table
  - **MainTasksXml** - Xml with Timee Main table elements
  - **PredefinedTasksXml** - Xml with PredefinedTasks table elements
  - **Context\_\_Collection** – Collections of specified items (used in Timee items dialog)
  - **Context\_\_** - Item of specified collection **typeof [ UserConfiguration\_\_ ]**
2. Strongly typed DataSet `TimeeBridge.TimeeDataSet`(used for easier navigation):
  - **TimeSheetTableRow** – usefull for adding new row to Timee Tables
3. Attributes Information:
  - `[Export(typeof(TimeeBridge.IPlugins))]` Inform Timee that this class is plugin
  - `[ExportMetadata("Name", "Plugin Name")]` Plugin Name displayed in menu
  - `[ExportMetadata("Return", "None")]` Inform Timee with item were modified
    - Return type:
      - None
      - MainTasks
      - PredefinedTasks
      - MainTasksXml
      - PredefinedTasksXml
      - Context
  - `[ExportMetadata("Group", "Sample Plugins")]` Submenu Name