

TYX CORPORATION

Productivity Enhancement Systems



PAWS Studio Release Notes

Version 1.39.12
September 27, 2012

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1 Paws Developer's Studio



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1.1 Critical Items

1.2 Known Limitations

1.3 Enhancements

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2 Run Time System



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2.1 Critical Items

2.2 Known Limitations

2.3 Enhancements

2.4 Problem Reports

2.4.1 PR#13 IAtlasTest RTS adapter interface provides the evaluation filed for the COMPARE statements

This release resolves PR#13 (enhancement of the IAtlasTest interface) by providing the IAtlasTestEx interface that inherits IAtlasTest, and provides the evaluation field of the COMPARE statment.

The following code shows its usage in the standard OnRtsTestValue or OnRtsTestLimits handle:

```
void tpsServerLiteClass_OnRtsTestValue(object pTest)
{
    // get the atlas test
    TYX.ComUtil.IAtlasTestEx atlasTest = pTest as TYX.ComUtil.IAtlasTestEx;
    if (atlasTest == null)
        return;

    if (atlasTest.Evaluation != TYX.ComUtil.TestEvaluation.TEST_EVALUATION_NONE)
    {
        string s = "LLmt: " + atlasTest.LLmt +
            ";ULmt: " + atlasTest.ULmt +
            ";Result: " + atlasTest.Result +
            ";Value: " + atlasTest.Value +
            ";Unit: " + atlasTest.Unit +
            "; Evaluation: " + atlasTest.Evaluation + ";";
        MessageBox.Show(s, "OnRtsTestValue");
    }
}
```

IAtlasTestEx defines the Evaluation property whose type is TestEvaluation. All these new additions will be available in TYX.ComUtil.Interop, along with the old IAtlasTest:

```
using System;
using System.Runtime.InteropServices;
namespace TYX.ComUtil
{
    [TypeLibType(4160)]
    [Guid("3F6B2672-F0DA-11D2-BBB0-00C0268914D3")]
    public interface IAtlasTestEx : IAtlasTest
    {
        [DispId(10)]
        TestEvaluation Evaluation { get; set; }
        [DispId(1)]
        object LLmt { get; set; }
        [DispId(5)]
        TestResult Result { get; set; }
        [DispId(2)]
        object ULmt { get; set; }
        [DispId(4)]
        string Unit { get; set; }
        [DispId(3)]
        object Value { get; set; }
    }
}
```

And:

```
using System;
namespace TYX.ComUtil
{
    public enum TestEvaluation
    {
        TEST_EVALUATION_NONE = 0,
        TEST_EVALUATION_GT = 25,
        TEST_EVALUATION_GE = 26,
        TEST_EVALUATION_LT = 27,
        TEST_EVALUATION_LE = 28,
        TEST_EVALUATION_EQ = 29,
        TEST_EVALUATION_NE = 30,
    }
}
```

```
        TEST_EVALUATION_ULLL = 255,  
    }  
}
```

The introduction of IAtlasTestEx is backward compatible: old OnRtsTestValue and OnRtsTestLimits code making use of IAtlasTest does not need to be rebuilt, and is expected to function the same.