

SZSN Acquires Control Of Aerospace Agriculture!

Shandong Zhouyuan Seed and Nursery Co., Ltd (SZSN)
\$0.43 UP 79% in a Week!

SZSN announced its further expansion by acquiring 53.47% of Aerospace Agriculture Technology Ltd. This will further expand its distribution and R&D capacities. Get on SZSN Friday!

asmx Web services, support for batching, and auto-generated bridges to external Web services, the breadth and depth of support for Web services makes this perhaps the most compelling feature of all.

An outline of the process follows.

asmx endpoints were built to serialize into XML, one of the major additions of the ASP.

Currently the PNG format has the best tool support for alpha channels and is the recommended format for your RibbonX icons.

You should make sure to check this option while developing RibbonX add-ins.

As you can see, it's pretty straightforward.

The SDK contains documentation and samples for customizing and extending the entire Visual Studio product line.

Add-in writers are encouraged to use these new control types to give their UI the same impact.

Technically, since you're going to be duplicating a handle back to the caller, the ACL shouldn't matter as long as the caller only uses that particular handle.

GetStockQuote from the client, it turns into an asynchronous Web request for the same .

With this knowledge in place, you can build a more complex Web service, knowing that it will handle complex types as easily as any SOAP-based Web service defined in an .

Command Disabling and RepurposingAnother operation commonly performed by Office add-ins is disabling built-in commands.

NET page is included with the code download for this issue.

The logon service will then return the integer handle value that represents the index into the caller's handle table.

A workspace represents the client-side copy of the artifacts that are under version control on the Team Foundation Server, and it serves as an isolated area to perform your work.

Another great feature of StartFromScratch mode is that it works on a per-document basis.

Images can be stored however an add-in wants, but in this example let's add the images as embedded resources just as with the XML.

RibbonX introduces StartFromScratch mode, which makes hiding the Office UI as easy as writing one line of XML.

Kernel Objects and HandlesEach Windows process has a handle table that references Windows kernel objects such as files, semaphores, tokens, and so on.

NET AJAX by Dino EspositoWicked Code: Asynchronous Pages in ASP.

NET Framework team that will show you how easy it is to build your own SafeHandle classes.

In CommandBars, OnAction macros did not have parameters, which sometimes made it difficult to figure out which button was being clicked.

Now if you open Excel and switch between a Timecard document and another document, you'll see that the custom tab shows up only for the timecard and the built-in tabs hide at the same time.

NET Developer's Guide to Windows Security, which is available both in print and on the web.

If you had lots of macros, you would need to change them all by hand, which could be time consuming and error prone.

So in the remainder of this column, I'm going to show you how to build a secure logon service that hosts this one line of highly sensitive code.

In the first of what I expect to be many columns, I'll poke around and show you how to extend and enhance Visual Studio Team System on both the client and server.

Users with several add-ins installed can see a significant performance hit every time they launch an Office application.

You can install it as a global template using the Templates and Add-Ins dialog. But if you open a Timecard document, the tabs don't show up.

In addition to the standard .

An outline of the process follows.

dot file and save it as a .

Keith is the author of Pluralsight's Applied .

From the Window object you can get the Workbook object, and from there you can get the Category property and check whether it's equal to Timecard.

Create an add-in by selecting New Project in Visual Studio, going to the Other Project Types category, and selecting Shared Add-in in the Extensibility section.

Now you just need to be able to use the add-in to create timecards in the first place.

An attacker running as SYSTEM can read the local security accounts database, potentially gaining access to other systems on the network once he's cracked the hashes of any weak passwords found there.

Demand-loading is transparent to the end user and, aside from setting the registry key, developers don't have to do any work either.

ConclusionIt's worth pointing out that the ASP.

If you're not sure what an SPN is, please consult "What is a Service Principal Name".

Before you even get to that, take a step back and ask the question, "Do we even need to upgrade this add-in at all?"

It also takes a RibbonID parameter, which is a string like "Microsoft.

There was no standard mechanism for doing this using CommandBars, so it was fraught with difficulty and error.

Upgrading a Word Template to RibbonXNow that we've covered all the major features of RibbonX, let's dive into the details with some example add-ins and code snippets.

NET type and serialize it into JSON with JavaScriptSerializer.

This has changed completely in the last year.

Document" or "Microsoft.

asmx Web service and access it from client-side JavaScript within a browser with almost no changes.

Fritz is the author of Essential ASP.

So what's the downside?

Other CallbacksThe rest of the callbacks are similar to that of the New Timecard button, so I won't include all their code here, but there are a couple of interesting ones worth mentioning.

ReadAllText will fail because the token she received for the administrator's account can only be used to identify the administrator, not to impersonate him.

Calling Web Services with AJAXIf you have ever consumed a Web service in the Microsoft .

A Dilemma of PrivilegeWhile protocol transition is a really neat feature, the basic ability to establish a logon session for a user without knowing her password is scary.

Underlying many of these features is the ability to retrieve data from the server asynchronously in a form that is easy to parse and interact with from client-side JavaScript calls.

They couldn't impersonate them to get to back-end resources.

It also takes a RibbonID parameter, which is a string like "Microsoft.

The reason I did it this way is that RibbonX OnAction macros have different signatures than their CommandBar counterparts do.

The proxy takes care of preparing the XML based on the parameters you pass, and it carefully translates the XML response it receives into the .

Once you have that macro in place, the fancy new button starts working!

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They couldn't impersonate them to get to back-end resources.

The other control of interest is the Sign Timecard button.

Normally you need a password to establish a logon session, but with protocol transition, you can bestow trust on a gateway to establish a logon session without knowing the corresponding password.

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You can't write the value of a file handle onto the clipboard, for example, and expect a different process to be able to read that value and start using it as a handle.

An attacker running as SYSTEM can read the local security accounts database, potentially gaining access to other systems on the network once he's cracked the hashes of any weak passwords found there.

As you can see, MyWebIdentity is configured for protocol transition because I've selected the option "Trust this user for delegation to specified services only" and "Use any authentication protocol.

But I took this opportunity to extend the classes in System.

First, it's returning a System.

Much as the XmlSerializer used by standard Web services serializes types to XML, you can take almost any .

If you wanted to get that working we could hook the SheetChanged event and call InvalidateControl whenever the signature cell is modified.

Second, it's designed to be forward-compatible with future versions of Office.

Developers needing to build more interactive pages with client-side JavaScript and DHTML were left to do it on their own, with some help from the ASP.

Create an add-in by selecting New Project in Visual Studio, going to the Other Project Types category, and selecting Shared Add-in in the Extensibility section.

aspx page when you create a Web site in Visual Studio using the ASP.

Another great feature of StartFromScratch mode is that it works on a per-document basis.

Keith is the author of Pluralsight's Applied .

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If you're not sure what an SPN is, please consult "What is a Service Principal Name".

Are these trade-offs worth it for your system?

There's no way this feature can ensure that you properly authenticate incoming users.

We could manually edit the .

First, it's returning a System.

The server-side serializer is available through the Microsoft.

There was no standard mechanism for doing this using CommandBars, so it was fraught with difficulty and error.

Any time you have a process that accepts input from remote users, runs all the time, and runs with high privilege, you've got a dangerous situation.

Clearly, this would be bad were it possible.

On subsequent boots of the application, the add-in is not started, but its RibbonX UI is shown as if it had been loaded.

They wanted to use protocol transition, but quickly found that unless their gateway processes were running as SYSTEM, any logons they established via this feature were useless.

The gateway service is going to make a call out to the logon service, using some interprocess communication technique that is easy to secure.

That's obvious, since you haven't told it which macro to call.

Since this column is about extending Team System, I won't be covering the details related to hooking the code into the Word infrastructure, but all the code will be provided for you to see.

NET proxy is exactly like calling methods on any other class.

Command Disabling and RepurposingAnother operation commonly performed by Office add-ins is disabling built-in commands.

The gateway service is going to make a call out to the logon service, using some interprocess communication technique that is easy to secure.

NET AJAX-Enabled Web application, you can invoke methods of the service from JavaScript by adding a ServiceReference to the ScriptManager control in your .

First, it's a whole lot easier to write one line of XML than fifty.

This helps prevent a compromised gateway from using the logon service to gain administrative privilege, which would make this whole solution pointless!

RibbonX then calls all of the add-in's Get callbacks in order to load all of its images and cache the initial state of the add-in.

NET Framework team that will show you how easy it is to build your own SafeHandle classes.

If it didn't, it would be calling back to the add-in all the time just in case it wants to switch something in its UI.

When the domain administrator enables protocol transition for your Web application's identity, she's entrusting you with the job that the domain controller normally does-authenticating users.

asmx endpoints, Windows Communication Foundation .

NET Security: An Introductory Guide to Building and Deploying More Secure Sites with ASP.

asmx Web services, support for batching, and auto-generated bridges to external Web services, the breadth and depth of support for Web services makes this perhaps the most compelling feature of all.

Consider the breach of a gateway that stores passwords versus one that uses protocol transition.

Once that signature is in place, you need to invalidate that getEnabled return value in order to re-enable the button.