





CNUX Technologies is pleased to announce the first COMPLETE customized Web Service Plug-in for Microsoft® .Net Providers is now available.

Only \$399CDN≈\$399USD per site license.

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1. Introduction

CNUX .Net Providers Web Service Plug-in for SQL Server is an extended .Net web state-management framework based on Microsoft® ASP.Net 2.0 specifications and guidelines. It is a complete framework consisting of Membership Provider, Role Provider, Site Map Provider, Session State Provider, Profile Provider, Web Event Provider and Web Parts Personalization Provider.

CNUX .Net Providers Web Service Plug-in is ideal for SOA and secured n-tier implementation.

2. What's in CNUX .Net Providers Web Service Plug-in?

CNUX .Net Providers Web Service Plug-in includes many exciting features in addition to the standard Microsoft® ASP.Net 2.0 providers framework.

Refer to the following table for information about the latest features and enhancements.

Features	
Single Sign-On capable	✓ Users only need to sign on once to access multiple web applications with the same credentials
Shared Session State capable	✓ Multiple web applications can easily pass information to each other as session state variables. Ideal for applications spawned by a single sign-on
Web Service	✓ The Web Service Edition is ideal for SOA and

	secured n-tier implementation. The Service Consumers library integrates with the front end web application typically located in the DMZ, while the Service Providers are located within your internal network and communicates with the database backend.
Exceptions - Error Trapping	✓ Multilingual exception resource files in: 简体中文 (Chinese-Simplified) 繁體中文 (Chinese-Traditional) Nederlands (Dutch) English Français (French) 日本語(Japanese)
Samples codes	✓ Multilingual in: 简体中文 (Chinese-Simplified) 繁體中文 (Chinese-Traditional) Nederlands (Dutch) English Français (French) Deutsch (German) 日本語(Japanese) Español (Spanish)
Microsoft® SharePoint® 2007 customization instructions	✓
Product Documentation	V
Support	✓ 1 year unlimited e-mail support
Software Upgrade	✓ 1 year unlimited product bug fixes and upgrades as they become available
Trial Software	✓

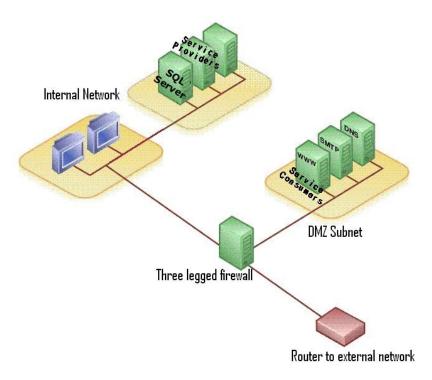
Table/Diagram 1. Feature Summary

3. How CNUX .Net Providers Web Service Plug-in Works

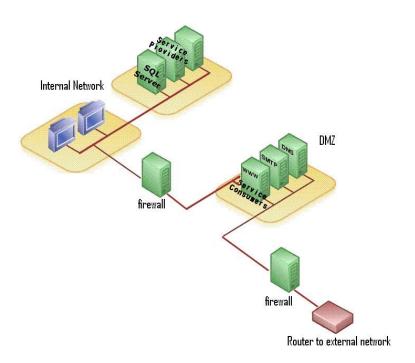
The web service providers are split into two parts: Service Consumers and Service Providers.

The Service Consumers library integrates seamlessly with the front end web application typically located in the DMZ, while the Service Providers are located within your internal network and communicates with the database backend.

Diagrams 2 & 3 below are two commonly used network configurations when DMZ is used to host web applications:



Table/Diagram 2. Secured N-tier network model using DMZ and a three legged firewall



Table/Diagram 3. Secured N-tier network model using DMZ and dual firewalls

The following two sections explain how the CNUX .Net Providers Service Consumers and Service Providers work in conjunction with the Microsoft® ASP.Net services.

3.1 Service Consumers on Web Server

In the top layer of the Web Server - Service Consumers portion (see diagram 4) are UI controls such as Login, CreateUserWizard and other .Net application codes that call Microsoft® ASP.Net services. In the second layer lie the base classes for Microsoft® ASP.Net services. These services do not communicate with the Service Providers directly. Instead all operations are done via the CNUX.ProvidersServiceConsumer Concrete Classes.

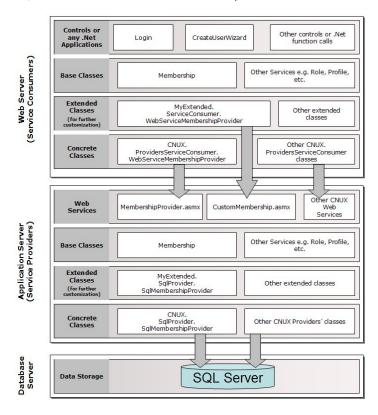
If any controls need to be customized and are calling methods are not already available within the Microsoft® ASP.Net services framework, the CNUX.ProvidersServiceConsumer concrete classes can be inherited and extended/overridden in the extended classes layer. In general this approach can be used for moving custom data between Service Consumers and Service Providers, or performing functionalities that are not within the scope of Microsoft® ASP.Net services.

All CNUX.ProvidersServiceConsumer classes and custom extended classes communicate with their respective Service Providers ASMX objects via SOAP messages.

3.2 Service Providers on Application Server

In the top layer of the Application Server - Service Providers portion (see diagram 4) are ASMX objects that communicate with the Service Consumers. These Service Providers in turn call Microsoft® ASP.Net services in the second layer. These services do not store and manage data in the data storage directly. Instead all operations are done via the CNUX providers as Concrete Classes.

If any methods of the concrete classes need to be further customized, the concrete classes can be inherited and extended/overridden in the extended classes layer.



Table/Diagram 4. CNUX .Net Providers Web Service Plug-in Model

4. Features

- 4.1. Compatibility
- 4.2. <u>Programmability</u>
- 4.3. Provider Types
- 4.4. 100% thread safe
- 4.5. <u>Transaction control</u>
- 4.6. Exceptions Error trapping
- 4.7. Support all Microsoft® documented ASP Roles and Views
- 4.8. <u>Implementation</u> <u>Completeness</u>

- 4.9. Shared Session State
- 4.10. <u>Database Failover/</u>
 Database Clustering

4.1. Compatibility



All CNUX .Net Providers are built for the Microsoft® ASP.Net Framework 2.0, 3.0 and 3.5, and 100% compliant and compatible with the information and requirements documented in the Microsoft® ASP.Net 2.0 model.

There is no behavioural difference when compared to the out-of-the box .Net Providers for SQL Server provided by Microsoft®.

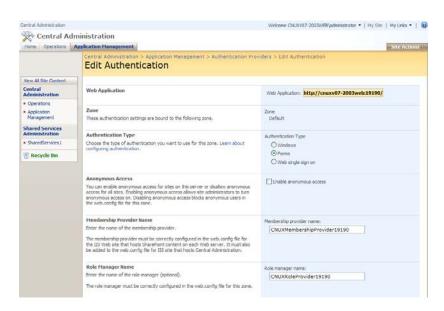
CNUX .Net Membership Provider and Role Provider are 100% Compatible with Microsoft® ASP.Net Web Site Administration Tool.

Back

Other providers are not applicable.

CNUX .Net Membership Provider and Role Provider are 100% compatible with Microsoft® SharePoint® 2007 server.

Please note that Microsoft® SharePoint® 2007 server does not support customization of providers other than Membership and Role.



4.2. Programmability

Programming with CNUX
.Net Providers is a snap.
CNUX .Net Providers offers
concrete classes that can be
easily incorporated into any
web projects using the
Microsoft® Visual Studio®
environment by placing the
CNUX .Net Providers module
in your Microsoft® Visual
Studio® project's bin
directory and modify a
couple of settings in the
web.config file.

```
| velocompilation>
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```

The Microsoft® ASP.Net
Providers base classes expose
methods that can be called from
your client code. Code calls are
forwarded to the concrete CNUX
.Net Providers classes which
provide the implementation.

All CNUX .Net Providers classes are derived from the abstract Microsoft® ASP.Net providers classes and therefore can be replaced or extended with any implementation you require via inheritance should any further customization be required.

4.3. Provider Types

The following table illustrates all the services and the corresponding CNUX .Net Providers:

Service	CNUX .Net Provider
Membership	CNUX.SqlProvider.SqlMembershipProvider
Role Management	CNUX.SqlProvider.SqlRoleProvider
Site Map	CNUX.SqlProvider.SqlSiteMapProvider
Profile	CNUX.SqlProvider.SqlProfileProvider
Session State	CNUX.SqlProvider.SqlSessionStateStore
Web Events	CNUX.SqlProvider.SqlWebEventProvider
Web Parts Personalization	CNUX.SqlProvider.SqlPersonalizationProvider

Service	CNUX .Net Provider Service Consumer	
Membership	CNUX.ProvidersServiceConsumer.WebServiceMembershipProvider	
Role Management	CNUX.ProvidersServiceConsumer.WebServiceRoleProvider	
Site Map	CNUX.ProvidersServiceConsumer.WebServiceSiteMapProvider	
Profile	CNUX.ProvidersServiceConsumer.WebServiceProfileProvider	
Session State	CNUX.ProvidersServiceConsumer.WebServiceSessionStateStore	
Web Events	CNUX.ProvidersServiceConsumer.WebServiceWebEventProvider	
Web Parts Personalization CNUX.ProvidersServiceConsumer.WebServicePersonalizationProvider		

Table/Diagram 6. CNUX .Net Service Consumers table

4.4. 100% thread safe

All CNUX .Net Providers conform to the Thread Safety requirements as documented in http://msdn2.microsoft.com/en-us/library/aa479030.aspx.

Without thread safety the code can produce data corruption and hard to reproduce sporadic errors due to the following summarized nature of Microsoft® ASP.Net providers architecture:

- Microsoft® ASP.Net providers are instanced once and shared among requests
- Each request is processed on a different thread drawn from a thread pool
- A provider can be accessed by multiple threads concurrently

4.5. Transaction control

Transactions are applied to all singleton/multiple method calls and database updates to guarantee atomicity according to suggestions as documented in http://msdn2.microsoft.com/en-us/library/aa479030.aspx.

4.6. Exceptions - Error trapping

All CNUX .Net Providers trap all errors and throw exceptions according to guidelines as documented in http://msdn2.microsoft.com/en-us/library/aa479030.aspx.



Server Error in '/Intro_CS' Application.

In addition, Exception Messages thrown by CNUX .Net Providers are sensitive to the user's web browser settings and display in the corresponding language. Currently Exception Messages are provided in 简体中文 (Chinese-Simplified), 繁體中文 (Chinese-Traditional), Nederlands (Dutch), English, Français (French) and 日本語(Japanese).

4.7. Support all Microsoft® documented ASP Roles and Views

CNUX .Net Providers support all the ASP Roles as follows:

CNUX .Net Providers supported Roles	ASP.Net Providers supported Roles for SQL Server
aspnet_WebEvent_FullAccess	Same
aspnet_Roles_ReportingAccess	Same
aspnet_Roles_FullAccess	Same
aspnet_Roles_BasicAccess	Same
aspnet_Profile_ReportingAccess	Same
aspnet_Profile_FullAccess	Same
aspnet_Profile_BasicAccess	Same
aspnet_Personalization_ReportingAccess	Same
aspnet_Personalization_FullAccess	Same
aspnet_Personalization_BasicAccess	Same
aspnet_Membership_ReportingAccess	Same
aspnet_Membership_FullAccess	Same
aspnet_Membership_BasicAccess	Same
aspnet_WebEvent_FullAccess	Same

Table/Diagram 7. CNUX .Net Providers supported ASP Roles vs. Microsoft® ASP.Net Providers supported Roles for SQL Server

CNUX .Net Providers support all the ASP Views as follows:

CNUX .Net Providers supported Views
vw_aspnet_Applications
vw_aspnet_Users
vw_aspnet_MembershipUsers
vw_aspnet_Roles
vw_aspnet_UsersInRoles
vw_aspnet_Profiles
vw_aspnet_WebPartState_Path
vw_aspnet_WebPartState_Shared
vw_aspnet_WebPartState_User

Table/Diagram 8. CNUX .Net Providers supported ASP Views

For more information about ASP Roles and Views, please refer to http://msdn2.microsoft.com/en-us/library/ms164596.aspx.

4.8. Implementation Completeness

CNUX .Net Providers have implemented the full contract defined by the Microsoft ASP.Net providers base class related to custom database access. Here is a list of all the CNUX .Net Providers and their methods and properties:

Provider: Base Class	Custom Methods and Properties
SqlMembershipProvider: MembershipProvider	ApplicationName ChangePassword ChangePasswordQuestionAndAnswer CreateUser DeleteUser EnablePasswordReset EnablePasswordRetrieval FindUsersByEmail FindUsersByName GetAllUsers GetNumberOfUsersOnline GetPassword GetUser GetUserNameByEmail Initialize MaxInvalidPasswordAttempts MinRequiredNonAlphanumericCharacters MinRequiredPasswordLength PasswordStrengthRegularExpression RequiresQuestionAndAnswer RequiresUniqueEmail ResetPassword UnlockUser UpdateUser ValidateUser

Table/Diagram 9. CNUX .Net Membership Provider and its custom methods and properties

Provider: Base Class	Custom Methods and Properties
SqlRoleProvider : RoleProvider	AddUsersToRoles
	ApplicationName
	CreateRole
	DeleteRole
	FindUsersInRole
	GetAllRoles
	GetRolesForUser
	GetUsersInRole
	Initialize
	IsUserInRole
	RemoveUsersFromRoles
	RoleExists

Table/Diagram 10. CNUX .Net Role Provider and its custom methods and properties

Provider: Base Class	Custom Methods and Properties
SqlSiteMapProvider : StaticSiteMapProvider	Initialize
	BuildSiteMap

Provider: Base Class	Custom Methods and Properties
SqlSessionStateStore : SessionStateStoreProviderBase	CreateNewStoreData
	CreateUninitializedItem
	Dispose
	EndRequest
	GetItem
	GetItemExclusive
	Initialize
	InitializeRequest
	ReleaseItemExclusive
	RemoveItem
	ResetItemTimeout
	SetAndReleaseItemExclusive
	SetItemExpireCallback

Table/Diagram 12. CNUX .Net Session State Provider and its custom methods and properties

Provider: Base Class	Custom Methods and Properties
SqlProfileProvider : ProfileProvider	ApplicationName
	DeleteInactiveProfiles
	DeleteProfiles (ProfileInfoCollection)
	DeleteProfiles (string[])
	FindInactiveProfilesByUserName
	FindProfilesByUserName
	GetAllInactiveProfiles
	GetAllProfiles
	GetNumberOfInactiveProfiles
	GetPropertyValues
	Initialize
	SetPropertyValues

Table/Diagram 13. CNUX .Net Profile Provider and its custom methods and properties

Provider: Base Class	Custom Methods and Properties
SqlWebEventProvider : BufferedWebEventProvider	Initialize
	ProcessEvent
	ProcessEventFlush
	Shutdown

Table/Diagram 14. CNUX .Net Web Event Provider and its custom methods and properties

Provider: Base Class	Custom Methods and Properties
SqlPersonalizationProvider: PersonalizationProvider	ApplicationName
	FindState
	GetCountOfState
	ResetState
	ResetUserState

WebServiceMembershipProvider: MembershipProvider ApplicationName ChangePassword ChangePasswordQuestionAndAnswer CreateUser DeleteUser EnablePasswordReset EnablePasswordRetrieval FindUsersByEmail FindUsersByName GetAllUsers GetNumberOfUsersOnline GetPassword GetUser GetUser GetUserNameByEmail Initialize MaxInvalidPasswordAttempts MinRequiredNonAlphanumericCharacters MinRequiredPasswordLength PasswordAttemptWindow PasswordStrengthRegularExpression RequiresQuestionAndAnswer RequiresQuestionAndAnswer RequiresUniqueEmail ResetPassword
UnlockUser UpdateUser ValidateUser

Table/Diagram 16. Membership Service Consumer + custom methods & properties

Consumer: Base Class	Custom Methods and Properties
WebServiceRoleProvider : RoleProvider	AddUsersToRoles
	ApplicationName
	CreateRole
	DeleteRole
	FindUsersInRole
	GetAllRoles
	GetRolesForUser
	GetUsersInRole
	Initialize
	IsUserInRole
	RemoveUsersFromRoles
	RoleExists

Table/Diagram 17. Role Service Consumer + custom methods & properties

Consumer: Base Class	Custom Methods and Properties
WebServiceSiteMapProvider : StaticSiteMapProvider	Initialize
	BuildSiteMap

Table/Diagram 18. Site Map Service Consumer + custom methods & properties

Consumer: Base Class	Custom Methods and Properties
WebServiceSessionStateStore: SessionStateStoreProviderBase	CreateNewStoreData
	CreateUninitializedItem
	Dispose
	EndRequest
	GetItem
	GetItemExclusive
	Initialize
	InitializeRequest
	ReleaseItemExclusive
	RemoveItem
	ResetItemTimeout
	SetAndReleaseItemExclusive
	SetItemExpireCallback

Table/Diagram 19. Session State Service Consumer + custom methods & properties

Consumer: Base Class	Custom Methods and Properties
WebServiceProfileProvider: ProfileProvider	ApplicationName
	DeleteInactiveProfiles
	DeleteProfiles (ProfileInfoCollection)
	DeleteProfiles (string[])
	FindInactiveProfilesByUserName
	FindProfilesByUserName
	GetAllInactiveProfiles
	GetAllProfiles
	GetNumberOfInactiveProfiles
	GetPropertyValues
	Initialize
	SetPropertyValues

Table/Diagram 20. Profile Service Consumer + custom methods & properties

Consumer: Base Class	Custom Methods and Properties
WebServiceWebEventProvider: BufferedWebEventProvider	Initialize
	ProcessEvent
	ProcessEventFlush
	Shutdown

Table/Diagram 21. Web Event Service Consumer + custom methods & properties

Consumer: Base Class	Custom Methods and Properties
WebServicePersonalizationProvider : PersonalizationProvider	ApplicationName FindState
	GetCountOfState ResetState ResetUserState

Table/Diagram 22. Web Parts Personalization Service Consumer + custom methods & properties

4.9. Shared Session State

Shared Session State is an enhanced feature of CNUX .Net Providers. It allows multiple web applications to pass information to and from one another. It supports passing of all complex data types, such as collections, that are supported by Microsoft® ASP.Net Session State management.

This feature is particularly useful for environments where a single sign-on application is used for general user authentication and multiple web applications can be invoked or spawned within it once a user's identity is verified. From there on information can be passed to and from the sign-on application and the spawned applications.

4.10. Database Failover/Database Clustering

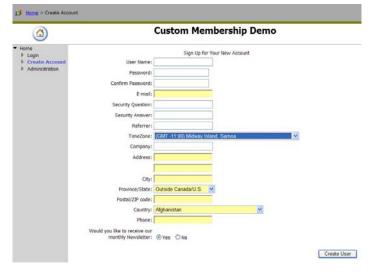
All CNUX .Net Providers can be deployed to Database Failover/Database Clustering environments.

5. Sample Codes



To help you get started with programming with CNUX .Net Providers, we provide code examples to illustrate how easily each customized state-management provider can be incorporated into your software. These sample programs are provided in 简体中文(Chinese-Simplified),繁體中文(Chinese-Traditional),Nederlands(Dutch),English,Français(French),Deutsch(German),日本語(Japanese)and Español(Spanish).(Language specific Microsoft® Visual Studio® is required for controls to display in native languages).

In addition to programming examples, we also include a sample Custom Membership web site to demonstrate how the framework can be incorporated into your existing environment and applications.



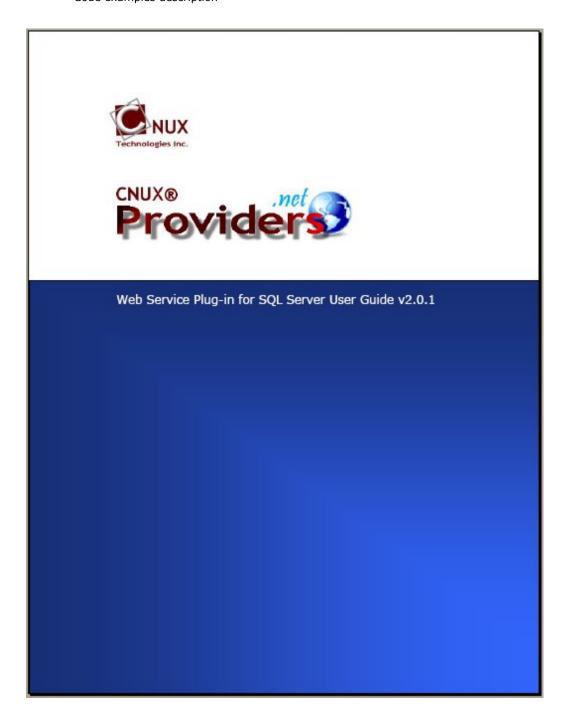
Details on how to setup CNUX .Net Providers for SharePoint $\ \ 2007$ are also included.

Note: All sample codes are NOT REDISTRIBUTABLE.

6. Product Documentation

A complete User Guide that includes

- Programming guide that includes set up, extendibility Code examples description



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A	ppendix B	Support and Software Upgrade
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7. Pricing

8. Support and Software Upgrade

1 year unlimited e-mail support and product upgrade as new releases become available.

9. End User License Agreement

You need Adobe Acrobat Reader to access the CNUX .Net Providers EULA file

10. Trial Software

Trial software is available upon request with the following limitations:

During execution random 20 second delays will happen.

Please feel free to request a copy of <u>CNUX .Net Providers – Trial Version</u> now!

11. Limitations

- Sitemap: Currently automatic reloading of site map data based on data-change monitoring is not implemented.
- Session State: Currently it does not support session state partitioning.

12. Release Notes

You can access the Release Notes here.

Please feel free to request a copy of <u>CNUX .Net Providers - Trial Version</u> now!

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