

# ZENworks Asset Management Database Changes

Version 7.0 to 7.5

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## Introduction

Changes to the ZENworks Asset Management database schema from version 7.0 to version 7.5 were fairly extensive in scope. They fall into one of several areas:

- web-based software usage measurement
- additional network-based software usage data
- software collections
- contract management

Generally speaking, there are no changes that should effect existing data integrations or custom reports. However, Novell recommends that you review the database changes described below in light of your custom integrations and reports prior to upgrading to ZENworks Asset Management version 7.5.

Here is a summary of the various changes:

### Summary of Column Additions

Column Name	Null?	Datatype	Initial Value
NC_ProcessData. <b>WebDefinitionBuildState</b>		Smallint	0
NC_Software. <b>FirstUsed</b>	X	Datetime	Null
NC_Software. <b>LastUsed</b>	X	Datetime	Null
NC_Software. <b>FirstServed</b>	X	DateTime	Null
NC_Software. <b>LastServed</b>	X	DateTime	Null
NC_SoftwareUsageHistory. <b>IsServerUsage</b>	X	Smallint	0
NC_SoftwareUsageHistory. <b>SourceDevice</b>	X	Varchar(32)	Null
NC_SoftwareUsageHistory. <b>RemoteWorkstationOID</b>	X	GUID	Null
NC_VRBSoftware. <b>IsDeleted</b>	X	Datetime	Null
NC_CDROM. <b>DeviceType</b>	X	Smallint	0
NC_VideoAdapter. <b>PixelShaderMajorVersion</b>	X	Smallint	0
NC_VideoAdapter. <b>PixelShaderMinorVersion</b>	X	Smallint	0
LC_Component. <b>ExcludedNonColl</b>	X	Tinyint	0

### Summary of Column Deletions

None

### Summary of Column Changes

Column Name	Change
NC_ConnectionInfo. <b>ClientVersion</b>	Change max length from 12 to 32 chars.
NC_NetworkDeviceExtended. <b>ClientVersion</b>	Change max length from 12 to 32 chars.
NC_VRBSoftware. <b>Server</b>	Change max length from 16 to 256 chars.

## Summary of Table Additions

Four tables were added for web-based software usage measurement:

NC\_WebSoftware  
NC\_WebSoftwareAttributes  
NC\_WebSoftwareUsageHistory  
NC\_WebSoftwareUsageSummary

One table was added for additional network-based software usage data:

NC\_NetSoftwareUsageSummary

One table was added for software collections:

LC\_CollComponent

Seventeen tables were added in support of contract management:

LC\_Contract  
LC\_ContractDocumentMap  
LC\_ContractLicenseMap  
LC\_ContractNetworkDeviceMap  
LC\_ContractOrgUnitAssoc  
LC\_ContractUserMap  
LC\_ContractWkstnMap  
LC\_Document  
LC\_Lease  
LC\_LicenseDocumentMap  
LC\_Notifications  
LC\_NotificationDefaults  
LC\_RenewalHistory  
LC\_ServiceLevelAgreement  
LC\_TallyProductColl  
LC\_TallyProductCollMap  
LC\_Vendor

## ZENworks Asset Management Documentation

Updated documentation is available from [www.novell.com/documentation/zam75](http://www.novell.com/documentation/zam75). Here you will find:

- User's guides for ZENworks Asset Management and the Web Console
- Installation, migration and update guides
- Database schema documents in Visio and PDF format

## New Tables for Web-Based Software Usage

Four tables were added for web-based software usage measurement.

### NC\_WebSoftware

NC_WebSoftware		
PK	<u>WebSoftwareOID</u>	uniqueidentifier
	<b>ApplicationName</b>	<b>varchar(45)</b>
	Manufacturer	varchar(35)
	Version	varchar(25)
	Language	varchar(25)
	<b>CreateDate</b>	<b>datetime</b>
	DateLastModified	datetime
	<b>InstanceVer</b>	<b>int</b>
	IsDeleted	datetime

### NC\_WebSoftwareAttributes

NC_WebSoftwareAttributes		
PK	<u>WebSoftwareAttributeOID</u>	uniqueidentifier
FK1,11	<b>WebSoftwareOID</b>	<b>uniqueidentifier</b>
	<b>AttributeType</b>	<b>smallint</b>
	<b>Attribute</b>	<b>varchar(256)</b>
	<b>InstanceVer</b>	<b>int</b>

### NC\_WebSoftwareUsageHistory

NC_WebSoftwareUsageHistory		
PK	<u>WebUsageHistoryOID</u>	uniqueidentifier
FK2,14	<b>WebSoftwareOID</b>	<b>uniqueidentifier</b>
FK3,15	<b>WorkstationOID</b>	<b>uniqueidentifier</b>
FK1,13	UserOID	uniqueidentifier
I2,11	<b>UsageDate</b>	<b>datetime</b>
	<b>StartupCount</b>	<b>int</b>
	<b>RuntimeSeconds</b>	<b>int</b>
	<b>ActiveSeconds</b>	<b>int</b>
	IsServerUsage	smallint
	SourceDevice	varchar(32)
	Path	varchar(256)
	<b>WebBrowserType</b>	<b>smallint</b>
	<b>InstanceVer</b>	<b>int</b>

### NC\_WebSoftwareUsageSummary

NC_WebSoftwareUsageSummary		
<b>PK</b>	<b><u>WebUsageSummaryOID</u></b>	<b>uniqueidentifier</b>
<b>FK1,I1</b> <b>FK2,I2</b>	<b>WebSoftwareOID</b> <b>WorkstationOID</b> FirstUsed LastUsed <b>InstanceVer</b>	<b>uniqueidentifier</b> <b>uniqueidentifier</b> datetime datetime <b>int</b>

### Table Added for Network-Based Software Usage

One table was added for additional network-based software usage data.

### NC\_NetSoftwareUsageSummary

NC_NetSoftwareUsageSummary		
<b>PK</b>	<b><u>NWSWUsageSummaryOID</u></b>	<b>uniqueidentifier</b>
<b>FK1,I1</b> <b>FK2,I2</b>	<b>VRBSoftwareOID</b> <b>WorkstationOID</b> FirstUsed LastUsed <b>InstanceVer</b>	<b>uniqueidentifier</b> <b>uniqueidentifier</b> datetime datetime <b>int</b>

### New Table for Software Collections

One table was added for software collections.

### LC\_CollComponent

LC_CollComponent		
<b>PK</b>	<b><u>MemberComponentOID</u></b>	<b>uniqueidentifier</b>
<b>PK</b>	<b><u>ParentComponentOID</u></b>	<b>uniqueidentifier</b>
<b>I1</b>	<b>MemberProductOID</b> <b>ParentProductOID</b>	<b>uniqueidentifier</b> <b>uniqueidentifier</b>

## Tables Added for Contract Management

Seventeen tables were added in support of contract management.

### LC\_Contract

LC_Contract		
PK	<u>ContractOID</u>	uniqueidentifier
U1	<b>InstanceVer</b> ParentContractOID <b>AdminContractID</b> ContractName Description ContractType ContractStatus ProgramName TotalCost InternalContactName InternalContactPhone InternalContactEmail StartDate EndDate Evergreen NoticeDescription NoticeDate TimeRemaining RenewalOption RenewalProvision KeyTerms VendorContractID	<b>int</b> uniqueidentifier <b>varchar(64)</b> varchar(64) varchar(255) varchar(32) varchar(32) varchar(255) decimal(18,2) varchar(64) varchar(16) varchar(64) datetime datetime tinyint varchar(255) datetime numeric(19,0) tinyint varchar(255) varchar(255) varchar(32)
FK4	VendorOID	uniqueidentifier
FK1	StartDateNotifOID	uniqueidentifier
FK2	EndDateNotifOID	uniqueidentifier
FK3	NoticeDateNotifOID	uniqueidentifier

### LC\_ContractDocumentMap

LC_ContractDocumentMap		
PK,FK1	<u>ContractOID</u>	uniqueidentifier
PK,FK2	<u>DocumentOID</u>	uniqueidentifier
	<b>AttachedBy</b> <b>DateAttached</b>	<b>varchar(64)</b> <b>datetime</b>

### LC\_ContractLicenseMap

LC_ContractLicenseMap		
PK,FK1 PK,FK2	<u>ContractOID</u> <u>LicenseOID</u>	uniqueidentifier uniqueidentifier

### LC\_ContractNetworkDeviceMap

LC_ContractNetworkDeviceMap		
PK,FK1 PK,FK2	<u>ContractOID</u> <u>NetworkDeviceOID</u>	uniqueidentifier uniqueidentifier

### LC\_ContractOrgUnitAssoc

LC_ContractOrgUnitAssoc		
PK,FK1 PK PK	<u>ContractOID</u> <u>OUType</u> <u>OUIValue</u>	uniqueidentifier tinyint varchar(32)

### LC\_ContractUserMap

LC_ContractUserMap		
PK,FK1 PK,FK2	<u>ContractOID</u> <u>UserOID</u>	uniqueidentifier uniqueidentifier

### LC\_ContractWkstnMap

LC_ContractWkstnMap		
PK,FK1 PK,FK2	<u>ContractOID</u> <u>WorkstationOID</u>	uniqueidentifier uniqueidentifier

## LC\_Document

LC_Document		
PK	<u>DocumentOID</u>	uniqueidentifier
	<b>InstanceVer</b>	<b>int</b>
	UserDocID	varchar(64)
	<b>FName</b>	<b>varchar(255)</b>
	<b>FileExt</b>	<b>varchar(8)</b>
	FilePath	varchar(1024)
	<b>FileLength</b>	<b>numeric(19,0)</b>
	ServerName	varchar(128)
	FileDate	datetime
	<b>UploadDate</b>	<b>datetime</b>
	<b>UploadedBy</b>	<b>varchar(64)</b>
	Description	varchar(255)
	<b>FileBlob</b>	<b>image</b>

## LC\_Lease

LC_Lease		
PK,FK1	<u>LeaseOID</u>	uniqueidentifier
	<b>InstanceVer</b>	<b>int</b>
	DateOrdered	datetime
	DateShipped	datetime
	DateDelivered	datetime
	DateSignedFor	datetime
	DateInspected	datetime
	DateAccepted	datetime
	DeliveryProcedures	varchar(255)
	ReturnObligations	varchar(255)
	RightsToRelocate	varchar(255)
	DefaultsAndRemedies	varchar(255)
	InsuranceProvisions	varchar(255)
	<b>InsuranceAmount</b>	<b>decimal(18,2)</b>
	ModificationProvisions	varchar(255)
	PurchaseOption	varchar(255)
	EndOfLeaseProvisions	varchar(255)
	PrevailingLaw	varchar(255)
FK2	DateOrderedNotifOID	uniqueidentifier
FK3	DateShippedNotifOID	uniqueidentifier
FK4	DateDeliveredNotifOID	uniqueidentifier
FK5	DateSignedNotifOID	uniqueidentifier
FK6	DateInspectedNotifOID	uniqueidentifier
FK7	DateAcceptedNotifOID	uniqueidentifier

## LC\_LicenseDocumentMap

LC_LicenseDocumentMap		
<b>PK,FK2 PK,FK1</b>	<b><u>LicenseOID</u> <u>DocumentOID</u></b>	<b>uniqueidentifier uniqueidentifier</b>
	<b>AttachedBy DateAttached</b>	<b>varchar(64) datetime</b>

## LC\_Notifications

LC_Notifications		
<b>PK</b>	<b><u>NotificationOID</u></b>	<b>uniqueidentifier</b>
	<b>InstanceVer</b>	<b>int</b>
	<b>NotificationType</b>	<b>smallint</b>
	<b>DocumentType</b>	<b>smallint</b>
<b>FK1</b>	<b>ContractOID</b>	<b>uniqueidentifier</b>
	ContractType	smallint
FK2	LeaseOID	uniqueidentifier
FK3	ServiceLevelAgreementOID	uniqueidentifier
	NotificationName	varchar(150)
	<b>FieldName</b>	<b>varchar(65)</b>
	FieldLabel	varchar(64)
	DaysPrior	int
	Status	smallint
	Recipients	varchar(4048)
	RepeatCount	int
	Frequency	smallint
	NotificationsSent	int
	NotificationFailures	int
	LastSentDate	datetime
	NextScheduledDate	datetime
	AutoDelete	tinyint
	Subject	varchar(256)
	Message	varchar(2048)
	CreateDate	datetime

## LC\_NotificationDefaults

LC_NotificationDefaults		
<b>PK</b>	<b><u>NotificationDefaultOID</u></b>	<b>uniqueidentifier</b>
	<b>InstanceVer</b>	<b>int</b>
	DaysPrior	int
	Recipients	varchar(4048)
	RepeatCount	int
	Frequency	smallint
	AutoDelete	tinyint

### LC\_RenewalHistory

LC_RenewalHistory		
PK	<u>RenewalOID</u>	uniqueidentifier
FK1	<b>InstanceVer</b> <b>ContractOID</b> <b>DateOfChange</b> <b>SourceOfChange</b> BeforeEndDate AfterEndDate EffectiveDate <b>Notes</b>	<b>int</b> <b>uniqueidentifier</b> <b>datetime</b> <b>varchar(64)</b> datetime datetime datetime <b>varchar(512)</b>

### LC\_ServiceLevelAgreement

LC_ServiceLevelAgreement		
PK	<u>ServiceLevelAgreementOID</u>	uniqueidentifier
FK1	<b>InstanceVer</b> <b>ContractOID</b> <b>DefinedServiceLevel</b> ActualServiceLevel ServiceStartDate ServiceEndDate FK2 StartDateNotifOID FK3 EndDateNotifOID <b>PercentMet</b>	<b>int</b> <b>uniqueidentifier</b> <b>varchar(128)</b> varchar(128) datetime datetime uniqueidentifier uniqueidentifier <b>int</b>

### LC\_TallyProductColl

LC_TallyProductColl		
PK,FK1	<u>ProductOID</u>	uniqueidentifier
	Platform <b>Source</b> <b>IsTracked</b>	<b>int</b> <b>int</b> <b>int</b>

### LC\_TallyProductCollMap

LC_TallyProductCollMap		
FK2,U1 FK1,U1	<b>ParentProductOID</b> <b>MemberProductOID</b> <b>IsRequired</b>	<b>uniqueidentifier</b> <b>uniqueidentifier</b> <b>int</b>

## LC\_Vendor

LC_Vendor		
PK	VendorOID	uniqueidentifier
	<b>InstanceVer</b>	<b>int</b>
	VendorName	varchar(64)
	AdminVendorID	varchar(64)
	AccountNumber	varchar(64)
	PriContactName	varchar(64)
	PriContactPhone	varchar(32)
	PriContactEmail	varchar(32)
	SecContactName	varchar(64)
	SecContactPhone	varchar(32)
	SecContactEmail	varchar(32)

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