Schneider Electric Software
Knowledge & Support Center

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Migrating AFWeb Configuration from IndustrialSQL Server 9 to Historian 10

LEGACY TECH NOTE #

706

SUMMARY

This *Tech Note* provides a script that migrates AFWeb configurations from InSQL 9.x to Historian 10.x for WIS 3.1 and 4.0.

- IndustrialSQL Server (InSQL) 9.x
- Historian 10.x
- Wonderware Information Server (WIS) 3.1 and 4.0

ACTION

Note: After migrating from InSQL 9 to Historian 10, do not delete the Runtime90 database since it is needed for this migration task.

1. Open SQL Server Management Studio. That can be found in Start->All Programs->Microsoft SQL Server 2005/2008->SQL Server Management Studio
2. Connect to the Historian machine that is used by WIS 3.1/4.0 for ActiveFactory Reports.
3. Download, unzip and run the attached script. It is reproduced below for reference.

```
USE [Runtime]
GO

SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

-- Ensure tables do not exist in the destination.
IF EXISTS (
SELECT 1
FROM sys.objects
WHERE Name = N'aaHistClientReport'
AND type='U')
BEGIN
DROP TABLE dbo.aaHistClientReport;
END;

IF EXISTS (
SELECT 1
FROM sys.objects
WHERE Name = N'aaHistClientReportsFolder'
AND type='U')
BEGIN
DROP TABLE dbo.aaHistClientReportsFolder;
END;

IF EXISTS (
SELECT 1
FROM sys.objects
WHERE Name = N'aaHistClientReportSite'
AND type='U')
BEGIN
DROP TABLE dbo.aaHistClientReportSite;
END;

--Create aaHistClientReportSite table
CREATE TABLE Runtime.[dbo].[aaHistClientReportSite](
[ReportSiteKey] [int] IDENTITY(1,1) NOT NULL,
[SiteURL] [nvarchar](255) NOT NULL,
[SitePath] [nvarchar](255) NOT NULL,
[Description] [nvarchar](255) NULL,
[SiteVersion] [nvarchar](10) NULL,
[WISSiteName] [nvarchar](50) NULL,
CONSTRAINT [PK_aaHistClientReportSite] PRIMARY KEY NONCLUSTERED
(
[ReportSiteKey] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY],
CONSTRAINT [IX_aaHistClientReportSite] UNIQUE CLUSTERED
(
[ReportSiteKey] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
```

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```
) ON [PRIMARY]
GO
ALTER TABLE [dbo].[aaHistClientReportSite] ADD CONSTRAINT [DF_aaHistClientReportSite_WISSiteName] DEFAULT ('Wonderware') FOR [WISSiteName]
GO

--Create aaHistClientReportsFolder table
CREATE TABLE [dbo].[aaHistClientReportsFolder](
[ReportSiteKey] [int] NOT NULL,
[ReportFolderKey] [int] IDENTITY(1,1) NOT NULL,
[ReportFolderName] [nvarchar](255) NULL,
[Description] [nvarchar](255) NULL,
[ReportType] [tinyint] NOT NULL,
[Disabled] [tinyint] NOT NULL,
[DirectoryName] [nvarchar](255) NULL,
[FileNameFormat] [nvarchar](255) NULL,
[JobType] [int] NULL,
CONSTRAINT [PK_aaHistClientReportsFolder] PRIMARY KEY NONCLUSTERED
(
[ReportFolderKey] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY],
CONSTRAINT [IX_aaHistClientReportsFolder] UNIQUE CLUSTERED
(
[ReportFolderKey] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]

GO

ALTER TABLE [dbo].[aaHistClientReportsFolder] WITH CHECK ADD CONSTRAINT [FK_aaHistClientReportsFolder_aaHistClientReportSite] FOREIGN KEY([ReportSiteKey])
REFERENCES [dbo].[aaHistClientReportSite] ([ReportSiteKey])
ON UPDATE CASCADE
ON DELETE CASCADE
GO

ALTER TABLE [dbo].[aaHistClientReportsFolder] CHECK CONSTRAINT [FK_aaHistClientReportsFolder_aaHistClientReportSite]
GO

ALTER TABLE [dbo].[aaHistClientReportsFolder] ADD CONSTRAINT [DF_aaHistClientReportsFolder_Disabled] DEFAULT ((0)) FOR [Disabled]
GO

ALTER TABLE [dbo].[aaHistClientReportsFolder] ADD CONSTRAINT [DF_aaHistClientReportsFolder_DirectoryName] DEFAULT ('') FOR [DirectoryName]
GO

ALTER TABLE [dbo].[aaHistClientReportsFolder] ADD CONSTRAINT [DF_aaHistClientReportsFolder_FileName] DEFAULT ('') FOR [FileNameFormat]
GO

ALTER TABLE [dbo].[aaHistClientReportsFolder] ADD CONSTRAINT [DF_aaHistClientReportsFolder_JobType] DEFAULT ((0)) FOR [JobType]
GO

-- Create aaHistClientReport table
CREATE TABLE [dbo].[aaHistClientReport](
[ReportKey] [int] IDENTITY(1,1) NOT NULL,
[ReportSiteKey] [int] NOT NULL,
[ReportFolderKey] [int] NOT NULL,
[Name] [nvarchar](255) NOT NULL,
[ReportType] [tinyint] NOT NULL,
[FileName] [nvarchar](255) NOT NULL,
[Description] [nvarchar](255) NULL,
[ApplicationType] [int] NULL,
[LastRun] [datetime] NOT NULL,
[ReportData] [image] NOT NULL,
[Published] [int] NOT NULL,
[LockdownOptions] [nvarchar](1024) NULL,
CONSTRAINT [PK_aaHistClientReport] PRIMARY KEY CLUSTERED
(
[ReportKey] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]

GO

ALTER TABLE [dbo].[aaHistClientReport] WITH CHECK ADD CONSTRAINT [FK_aaHistClientReport_aaHistClientReportsFolder] FOREIGN KEY([ReportFolderKey])
REFERENCES [dbo].[aaHistClientReportsFolder] ([ReportFolderKey])
GO

ALTER TABLE [dbo].[aaHistClientReport] CHECK CONSTRAINT [FK_aaHistClientReport_aaHistClientReportsFolder]
GO

ALTER TABLE [dbo].[aaHistClientReport] WITH CHECK ADD CONSTRAINT [FK_aaHistClientReport_aaHistClientReportSite] FOREIGN KEY([ReportSiteKey])
REFERENCES [dbo].[aaHistClientReportSite] ([ReportSiteKey])
ON UPDATE CASCADE
ON DELETE CASCADE
GO

ALTER TABLE [dbo].[aaHistClientReport] CHECK CONSTRAINT [FK_aaHistClientReport_aaHistClientReportSite]
GO

ALTER TABLE [dbo].[aaHistClientReport] ADD CONSTRAINT [DF_aaHistClientReport_ReportType] DEFAULT ((0)) FOR [ReportType]
GO

ALTER TABLE [dbo].[aaHistClientReport] ADD CONSTRAINT [DF_aaHistClientReport_LastRun] DEFAULT ((0)) FOR [LastRun]
GO
```

```sql
-- Check if Runtime90 exists
if exists (
select 1
from sys.databases
where name = N'Runtime90')
BEGIN
--Copy Report Site table content
SET IDENTITY_INSERT Runtime.dbo.aaHistClientReportSite ON
INSERT Runtime.dbo.aaHistClientReportSite(ReportSiteKey,SiteURL,SitePath,Description,SiteVersion,WISSiteName)
SELECT *
FROM Runtime90.dbo.aaHistClientReportSite
SET IDENTITY_INSERT Runtime.dbo.aaHistClientReportSite OFF

--Copy Report Folder table content
SET IDENTITY_INSERT Runtime.dbo.aaHistClientReportsFolder ON
INSERT
Runtime.dbo.aaHistClientReportsFolder(ReportSiteKey,ReportFolderKey,ReportFolderName,Description,ReportType,Disabled,DirectoryName,FileNameFormat,JobType)
SELECT *
FROM Runtime90.dbo.aaHistClientReportsFolder
SET IDENTITY_INSERT Runtime.dbo.aaHistClientReportsFolder OFF

-- Copy Report table content
SET IDENTITY_INSERT Runtime.dbo.aaHistClientReport ON
INSERT
Runtime.dbo.aaHistClientReport(ReportKey,ReportSiteKey,ReportFolderKey,Name,ReportType,FileName,Description,ApplicationType,LastRun,ReportData,Published,LockdownOptions)
SELECT *
FROM Runtime90.dbo.aaHistClientReport
SET IDENTITY_INSERT Runtime.dbo.aaHistClientReport OFF
END;
```

ATTACHMENTS

https://okmgcs.km.invensys.com/resources/sites/KPKA/content/live/TN/0/TN335/en_US/~secure/{ "content": "Migrate AFWeb Tables.zip", "SECUREDRESOURCE": "Y", "SIZE": 1369 }