

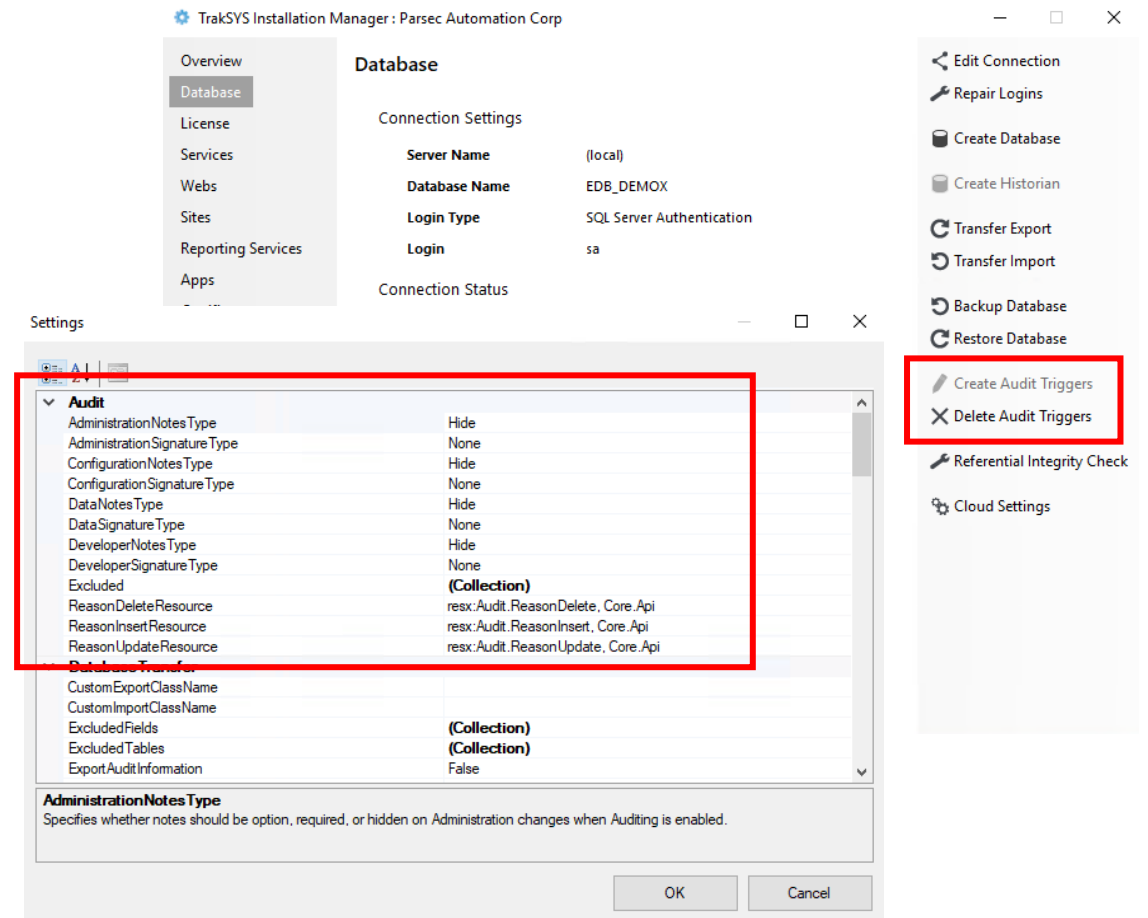
Audit Overview



Audit Features

The following are general capabilities available when the TrakSYS [Audit](#) feature is enabled...

- Requires a [user digital signature](#) any time a change is made to the Configuration or Data
- Configuration entities include an Audit link which displays related [Change History](#)
- Audit features can be configured in [TrakSYS Settings](#) within [Installation Manager](#)
- Required database Triggers can be managed from the [Database](#) section in [Installation Manager](#)



Audit Settings



Audit Settings

Control by Section

- Administration
- Configuration
- Developer
- Data

Signature Type

- None
- Auto
- Name Only
- Single
- Dual

Notes Type

- Hide
- Optional
- Required

Excluded Tables

Table Names to be excluded from the Audit Triggers

Reason Resources

The text that is displayed when prompting for a Signature

Settings

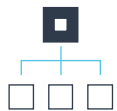
Audit	
AdministrationNotes Type	Hide
AdministrationSignature Type	None
ConfigurationNotes Type	Hide
ConfigurationSignature Type	None
DataNotes Type	Hide
DataSignature Type	None
DeveloperNotes Type	Hide
DeveloperSignature Type	None
Excluded	(Collection)
ReasonDeleteResource	resx:Audit.ReasonDelete, Core.Api
ReasonInsertResource	resx:Audit.ReasonInsert, Core.Api
ReasonUpdateResource	resx:Audit.ReasonUpdate, Core.Api
Database Transfer	
CustomExportClassName	
CustomImportClassName	
ExcludedFields	(Collection)
ExcludedTables	(Collection)
ExportAuditInformation	False

AdministrationNotes Type
Specifies whether notes should be option, required, or hidden on Administration changes when Auditing is enabled.

OK Cancel

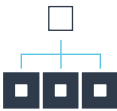
Audit

Table Structure



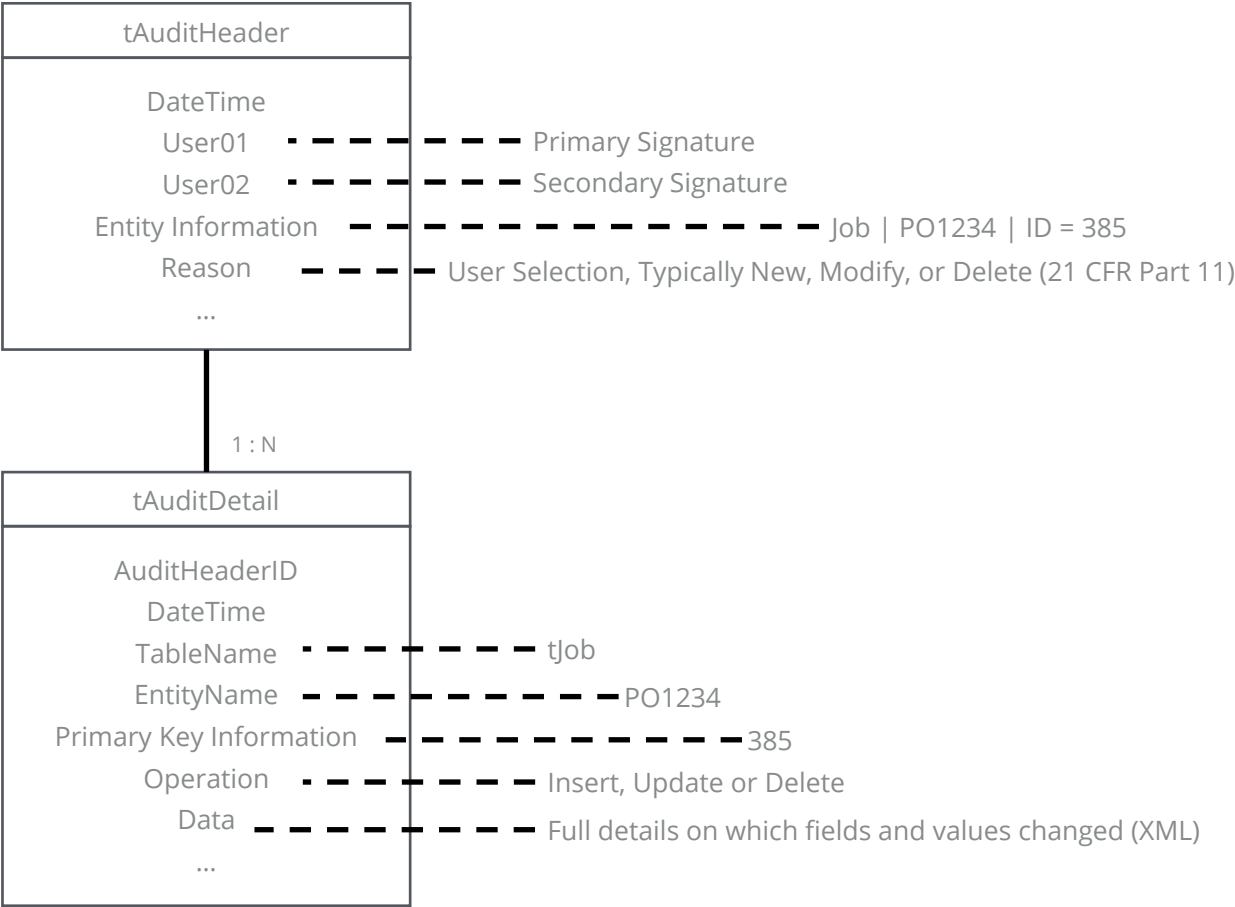
Header

An [Audit Header](#) record is created (1 per database transaction) by the TrakSYS API infrastructure when Auditing is enabled, and a change is made via the standard UI or using appropriate API techniques.



Detail

An [Audit Detail](#) record is created (1 per insert, update or deleted row within a database transaction) by the TrakSYS Audit Triggers when they are deployed, and a [change is made in any way](#) (even direct to database).



Audit API Example



Executing with Auditing

In this example, a [multi-insert](#) API call is made with support for creating the Audit [Header](#) and binding to it all resultant Audit [Detail](#) records.

The API calls shown here will create the following TrakSYS data records...

- tJob
- tJobDiscrete (related 1:1 to tJob)
- tJobSystemPlanned

The following Audit records will also be created...

- tAuditHeader
- tAuditDetail (tJob)
- tAuditDetail (tJobDiscrete)
- tAuditDetail (tJobSystemPlanned)

```
// note that proper error handling is omitted for clarity

var uow = this.Ets.Api.CreateUnitOfWork();

// load system
var sys = this.Ets.Api.Data.DbSystem.Load.ByID(23);

// create discrete job
var job = this.Ets.Api.Data.DbJobDiscreteComposite.Create.FromParentNone();
this.Ets.Api.Util.Db.SetNextSequenceToModel(job);
job.Name = "P0123";
// fill other job fields
this.Ets.Api.Data.DbJobDiscreteComposite.Save.InsertAsNew(job, uow);

// create job planned
var jsp = new ETS.Core.Api.Models.Data.DbJobSystemPlanned();
jsp.JobID = job.ID;
jsp.SystemID = sys.ID;
this.Ets.Api.Data.DbJobSystemPlanned.Save.InsertAsNew(jsp, uow);

// create header
var header = this.Ets.Api.Data.DbAuditHeader.Create.FromParentNone();
header.AuditDateTime = this.Ets.SiteNow;
header.User01 = this.Ets.User.DisplayName;
header.User01FullName = this.Ets.User.Login;
header.EntityID = job.ID;
header.EntityName = job.Name;
header.EntityTypeName = "Job";
header.Reason =
    this.Ets.Api.Util.Resource.GetEnumString(ETS.Core.Enums.AuditDetailOperationType.Insert);
header.IsDatabaseTransfer = false;

// execute with audit
uow.ExecuteAudit(header);
```

Audit Database Transfer



Audit Transfer

For scenarios where Non-Production (Development) instances are in use, and the changes made there must be tracked, the [ExportAuditInformation](#) setting allows for the change details to be [passed down](#) to the Production instance.

Audit Records that are transferred will be marked in the Header as [IsDatabaseTransfer](#) = True. The original date/time, user and all details are retained.

▼ Database Transfer	
CustomExportClassName	
CustomImportClassName	
ExcludedFields	(Collection)
ExcludedTables	(Collection)
ExportAuditInformation	True
ReferentialIntegrityCheckFailureAction	Rollback
ReferentialIntegrityCheckLevel	All

