

# TNTP Extensions for Teacher Talent Management Setup Guide

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# **About TNTP**

Formerly known as The New Teacher Project, TNTP is a revenue-generating nonprofit organization with a mission of ending "the injustice of educational inequality by providing excellent teachers to the students who need them most and by advancing policies and practices that ensure effective teaching in every classroom". TNTP helps "urban school districts and states recruit and train new teachers, staff challenged schools, design evaluation systems, and retain teachers who have demonstrated the ability to raise student achievement".

TNTP was founded by educator, former Chancellor of the Washington, D.C. public schools, and StudentsFirst founder Michelle Rhee in 1997 and is "driven by the belief that effective teachers have a greater impact on student achievement than any other school factor (even to the exclusion of social factors). In response, TNTP develops customized programs and policy interventions that enable education leaders to find, develop and keep great teachers. Since its inception in 1997, TNTP has recruited or trained approximately 43,000 teachers - mainly through its Teaching Fellows programs - who have taught an estimated 7 million students"<sup>3</sup>.

<sup>&</sup>lt;sup>1</sup> http://tntp.org/about-tntp

<sup>&</sup>lt;sup>2</sup> https://en.wikipedia.org/wiki/The New Teacher Project

<sup>&</sup>lt;sup>3</sup> https://en.wikipedia.org/wiki/The\_New\_Teacher\_Project

# **About the TNTP Extensions for Teacher Talent Management**

Developed and contributed by TNTP in conjunction with Educuity (now part of Certica Solutions), the extensions for Teacher Talent Management is a robust data extension to the Ed-Fi data standard focused on teacher recruitment and hiring. Use this extension to integrate data from teacher applicant tracking, instructional vacancy tracking, teacher evaluation, and survey vendors.

States, districts, and charter networks can use this extension to recruit, hire, develop, and retain great teachers. The following categories of data are supported:

- Prospects
- Applicant Tracking
- Vacancy Tracking
- Hiring / Onboarding
- Observation and Evaluation
- Teacher, Student, and Parent Survey Results

# **Teacher Talent Management Extension Overview**

The following class diagrams provide a technical overview of the Teacher Talent Management extensions and show how the new entities relate to and extend the Ed-Fi data standard.

# **Recruitment and Staffing**

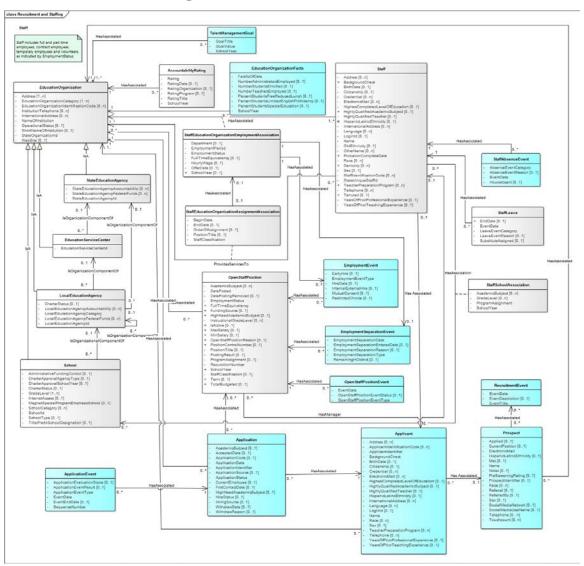


Figure 1. Recruitment and Staffing Class Diagram

#### **Staff Evaluation**

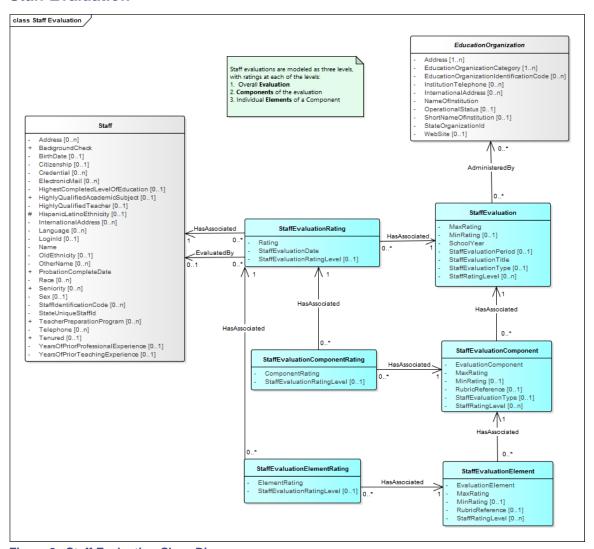


Figure 2. Staff Evaluation Class Diagram

#### **Survey Class Diagram**

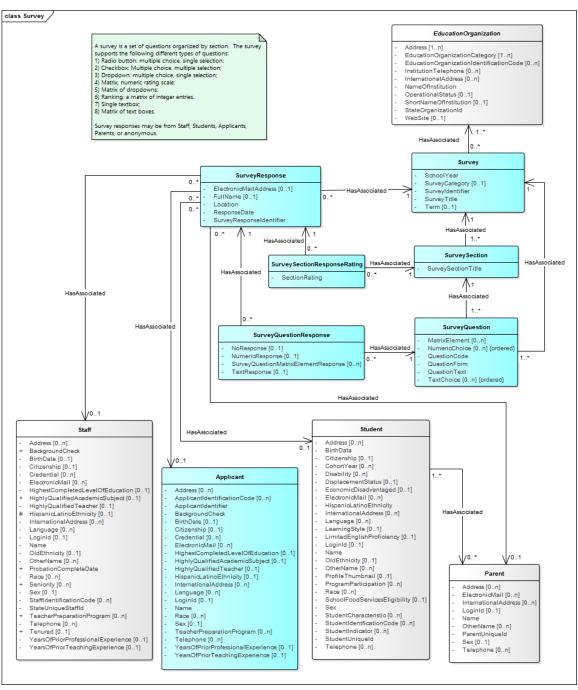
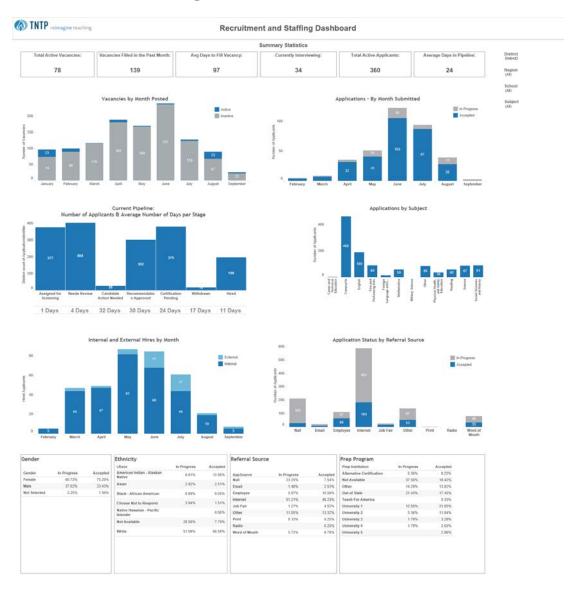


Figure 3. Survey Class Diagram

# **Extension Visualizations**

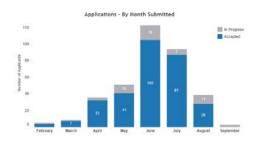
The following screen shots provide visualizations of the Teacher Talent Management extensions that are used internally at TNTP for decision making. The visualizations are not part of the extension. They are shown for illustrative purposes only. Please contact TNTP for more details.

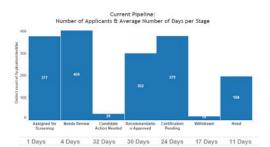
#### **Recruitment and Staffing Dashboard**



# **Applicants Detail**

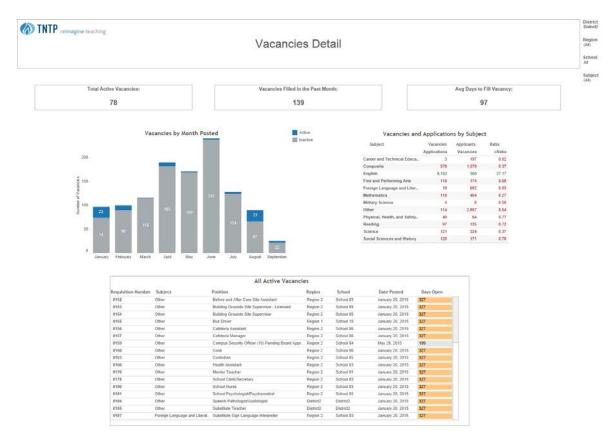






					All Applic	ants			
oplicant ID	Subject	Region	School Source	Application Source	e Teacher Prep Inst.	Application Date	Application Status	Pipeline Stage	Days in Stage
10	Physical, Health, and Safety Education	Region f	School 4	Employee	Alternative Certification	August 21, 2015	in Progress	Certification Pending	0.0
100	Composite	Region 1	School 12	Internet	Other	July 24, 2015	Accepted	Hired	84.0
101	Composite	Region 2	School 61	Internet	University 1	July 23, 2015	Accepted	Hired	9.0
193	Composite	Region 2	School 61	Employee	University 2	July 23, 2015	Accepted	Hired	11.0
104	Composite	Region 2	School 61	Word of Mouth	University 1	July 23, 2015	Accepted	Hired	49.0
106	Composite	Region 2	School 61	Email	Out of State	July 22, 2015	Accepted	Hired	37.0
107	Social Sciences and History	Region 2	School 61	Other	Alternative Certification	July 22, 2015	Accepted	Hired	0.0
110	Composite	Region 2	School 61	Internet	University 1	July 21, 2015	Accepted	Hired	53.0
111	Composite	Region 2	School 61	Internet	Out of State	July 21, 2015	Accepted	Hired	18.0
112	Foreign Language and Literature	Region 2	School 61	Word of Mouth	University 5	July 21, 2015	Accepted	Hired	48.0
114	Composite	Region 2	School 61	Employee	Alternative Certification	July 21, 2015	Accepted	Hired	12.0
115	Composite	Region 2	School 61	Word of Mouth	Out of State	July 21, 2015	Accepted	Hired	17.0
116	Composite	Region 2	School 83	Internet	University 2	July 20, 2015	Accepted	Hired	156.0
118	Composite	Region 1	School 36	Internet	Other	July 20, 2015	Accepted	Hired	23.0
119	Composite	Region 2	School 61	Internet	Alternative Certification	July 20, 2015	Accepted	Hired	91.0
120	Composite	Region 2	School 61	Other	University 4	July 20, 2015	Accepted	Hired	55.0
127	Composite	Region 2	School 61	Employee	Other	July 16, 2015	Accepted	Hired	15.0
128	Composite	Region 2	School 61	Employee	University 5	July 16, 2015	Accepted	Hired	53.0
129	Composite	Region 2	School 61	Null	Not Available	July 16, 2015	Accepted	Hired	56.0
139	Composite	Region 2	School 61	Internet	University 2	July 16, 2015	Accepted	Hired	10.0
131	Composite	Region 2	School 61	Other	University 1	July 16, 2015	Accepted	Hired	64.0
133	Composite	Region 1	School 40	Employee	University 2	July 16, 2015	Accepted	Hired	81.0

#### **Vacancies Detail**



# Implementing the Extension

Follow the instructions below to apply the TNTP Extensions for Teacher Talent Management to the Ed-Fi ODS / API.

#### Confirm or Install the Ed-Fi ODS / API v2.1.1

Confirm that you have successfully downloaded, configured, and installed the Ed-Fi ODS / API v2.1.1, as described in <a href="https://techdocs.ed-fi.org/display/ODSAPI21/Getting+Started">https://techdocs.ed-fi.org/display/ODSAPI21/Getting+Started</a>.

#### **Download the Extension Zip Archive**

Download the "zip" archive containing the custom interchange schema, database schema extensions, and interchange order metadata definitions from the Ed-Fi Exchange.

#### **Extract the Zip Archive's Contents**

Extract the contents of the zip file archive to a working directory.

#### **Move the Zip Archive's Contents**

The set of files that need to move moved to your Ed-Fi ODS / API location are described below. As a short cut, you can copy the entire folder, i.e. copy \text{\textit{TNTP}\_Extensions}\text{\text{\text{Ed-Fi-Implementation}}} to

\(Ed-Fi Path)\Ed-Fi-ODS-Implementation

#### Changes to Ed-Fi Core Files (for use with Ed-Fi 2.0 Standard only)

The files below are changes the Ed-Fi Data Standard and associated artifacts, that are anticipated to be released as part of the Ed-Fi Data Standard v2.1 release. In the interim, while the Ed-Fi ODS / API is aligned to v2.0 of the data standard, the following changes should be applied (and subsequently reverted when upgrading to a release of the Ed-Fi ODS / API that aligns to the forthcoming v2.1 data standard)

#### • Ed-Fi Core Schema

Source	\TNTP_Extensions\Ed-Fi-
files:	ODS\Application\EdFi.Ods.CodeGen\App_Packages\Ed-Fi\Schema\Ed-Fi-
	Core.xsd
	\TNTP_Extensions\Ed-Fi-
	ODS\Application\EdFi.Ods.Metadata\App_Packages\Ed-Fi\Schema\Ed-Fi-
	Core.xsd
Target	(Ed-Fi Path)\Ed-Fi-
folder:	ODS\Application\EdFi.Ods.CodeGen\App_Packages\Ed-Fi\Schema
	(Ed-Fi Path)\Ed-Fi-
	ODS\Application\EdFi.Ods.Metadata\App_Packages\Ed-Fi\Schema

# Database Structure Scripts

Source	\TNTP_Extensions\Ed-Fi-ODS-Implementation\ Database\Structure\EdFi
files:	0001-Staff-HispanicLatinoEthnicity-Is-Nullable.sql
	0002-Talent-Management-Enhancements-to-Ed-Fi-Core.sql
	0003-Talent-Management-OpenStaffPosition-Primary-Key-
	Slimming.sql
Target	(Ed-Fi Path)\Ed-Fi-ODS\Database\Structure\EdFi
folder:	

# Extension Schema Files and Metadata

The following XML schema files must be moved (or copied) as indicated below.

#### • Ed-Fi Core Extension Schema

Source	\TNTP_Extensions\Ed-Fi-Implementation\Extensions\Schemas\
files:	EXTENSION-Ed-Fi-Extended-Core.xsd
Target	(Ed-Fi Path)\Ed-Fi-ODS-Implementation\Extensions\Schemas
folder:	

# • Extension Interchange Schemas

Source	\TNTP_Extensions\\Ed-Fi-Implementation\Extensions\Schemas\
files:	Interchange-RecruitmentAndStaffing.xsd
	Interchange-StaffEvaluation.xsd
	Interchange-Survey.xsd
	Interchange-TalentMgmtDescriptors.xsd
Target	(Ed-Fi Path)\Ed-Fi-ODS-Implementation\Extensions\Schemas
folder:	

#### Extensions Metadata

Source	\TNTP_Extensions\Ed-Fi-Implementation\Extensions\Metadata
files:	DomainMetadata-Extension.xml
	InterchangeOrderMetadata-Extension.xml
	PredefinedContextMetadata-Extension.xml
	SkipReferenceMetadata-Extension.xml
Target	(Ed-Fi Path)\Ed-Fi-ODS-Implementation\Extensions\Metadata
folder:	

#### Extension Database Scripts

The API build process requires database scripts to adhere to a file naming convention that uses a numerical prefix to define the execution order. You must ensure that the numbers of the scripts files brought in from the Talent Management zip archive blend appropriately with any existing files in the destination directory. For example, when you move the file named 0004- EdFi\_Ods\_TalentMgmt.sql , if there is already another file with a "0014-" prefix in the destination directory, you'll need to increment the number on the file you are moving to ensure it is applied to the ODS correctly.

# • Extensions Database Structure Script

Source:	\TNTP_Extensions\\Ed-Fi-Implementation\ Database\Structure\EdFi \1004-
	EdFi_Ods_TalentMgmt.sql
Target	(Ed-Fi Path)\Ed-Fi-ODS-Implementation\Database\Structure\EdFi
folder:	

## Database Data (Extension Types, Extension Table Initialization)

Source:	\TNTP_Extensions\\Ed-Fi-Implementation\Database\Data\EdFi
	1002-Insert-Talent-Management-Types.sql
	1003-Populate-Talent-Management-Extension-Records.sql
Target	(Ed-Fi Path)\Ed-Fi-ODS-Implementation\Database\Data\EdFi
folder:	

## Extension Descriptors XML Data

## • Custom Descriptors

Source:	\TNTP_Extensions\ Ed-Fi-ODS-
	Implementation\Database\Data\EdFi\Descriptors\
	InterchangeData-TalentMgmtDescriptors.xml
	Manifest.xml
Target	(Ed-Fi Path)\Ed-Fi-ODS-Implementation\Database\Data\EdFi\Descriptors
folder:	

# PowerShell Build Scripts

# • Enable Descriptor Loading

Source:	\TNTP_Extensions\Ed-Fi-ODS-Implementation\Application\SolutionScripts
	\InitializeDevelopmentEnvironment_TNTP.psm1
Target	(Ed-Fi Path)\Ed-Fi-ODS-Implementation\Application\SolutionScripts
folder:	

## **Inserting Resource Claims**

The following scripts will be executed against EdFi\_Security:

- Scripts\Insert\_Descriptor\_Resource\_Claims.sql
- Scripts\Insert\_Type\_Resource\_Claims.sql
- Scripts\Insert\_talent\_management\_resource\_claim.sql

#### **Adding Authorization Metadata for Resource**

The following script will also be executed against EdFi\_Security:

Scripts\RecruitmentEventSecurityFix.sql

#### **Prepare the Development Environment**

- Run Windows PowerShell as Administrator.
- Change to the C:\Ed-Fi-ODS-Implementation directory (or whatever is appropriate based on where you cloned/extracted the source code).
- Run the .\Initialize-PowershellForDevelopment.ps1 script to initialize the PowerShell session with the build scripts.
- Run the **initdev** command to perform the full build process, which includes creating databases, generating source code, and compiling all projects in the solution.

#### **Set the Startup Projects**

 Per "Getting Started – Installation Steps, Step 6. Set the Startup Projects", enable the EdFi.Ods.Admin.Web, EdFi.Ods.SwaggerUI, and EdFi.Ods.WebApi projects in Visual Studio's Startup Project property page.

#### Run the Ed-Fi ODS/API Solution in Visual Studio

- Run the solution in Visual Studio by pressing Ctl+F5.
- Select the browser tab containing the Ed-Fi ODS/API Swagger page.

#### **Verify Successful Setup**

 View the Ed-Fi ODS/API using Swagger (see the image below). New API resources should be visible in the "Resources" section for the following subject areas:

- Recruitment and Staffing (e.g. applicants, prospects, etc.)
- Staff Evaluation (e.g. staffEvaluations, staffEvaluationRatings, etc.)
- Survey (e.g. surveys, surveyResponse, etc.)

