



RIFT TD TUTORIAL

MERGE SURFACES

INTRODUCTION

In this tutorial you will merge two **Surfaces**.

A copy of the **Rift TD** Users Manual may be useful when working through this tutorial. It is installed during **Rift TD** installation, but can also be downloaded from our [download page](#).

TUTORIAL COMPONENTS

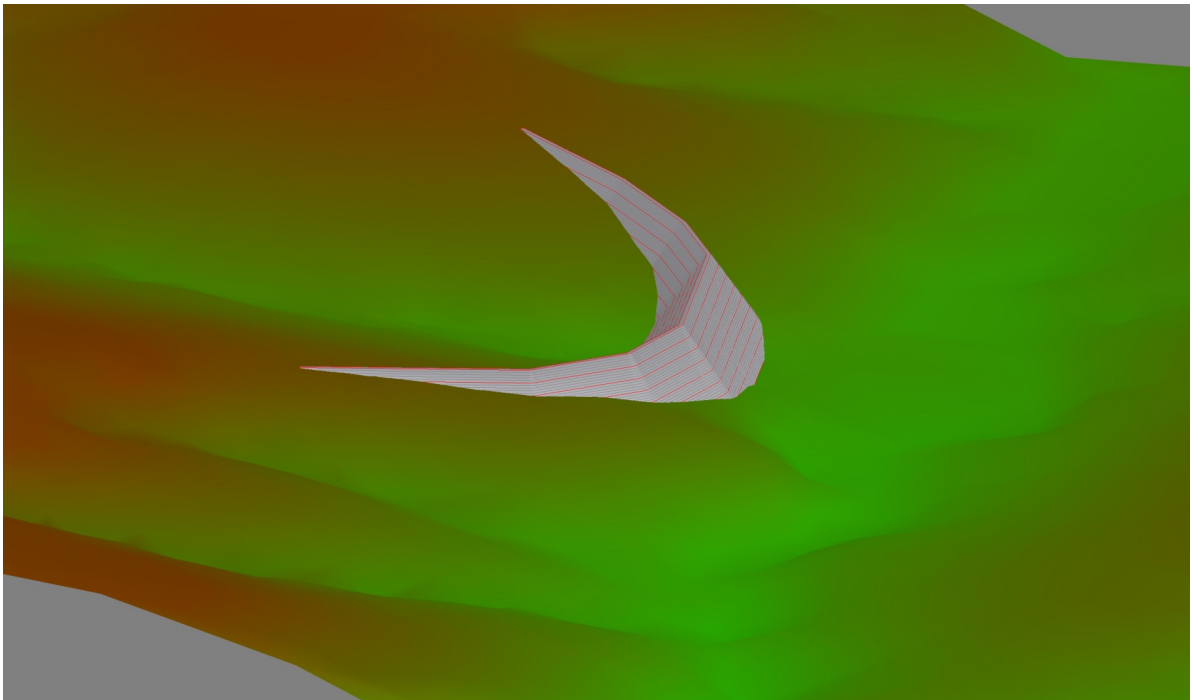
This tutorial comprises:

- This instruction set.
- **Rift TD** Data Files:
 - Embankment Model.rft: The **Rift TD** embankment and base surface file
 - Merged Model.rft: The final merged model.
 - Survey Data.txt: Topography survey data.

EMBANKMENT MODEL

The embankment used in this tutorial was previously generated in the **Embankment Modelling Tutorial**. Start by opening the embankment model:

- **Click File > Open.**
- **Select Embankment Model.rft.**
- **Click Open.**

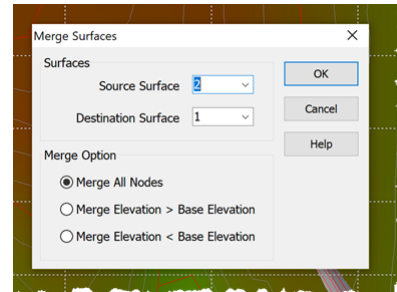
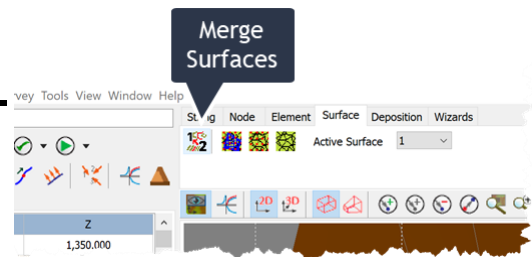


Embankment Model

MERGE SURFACES

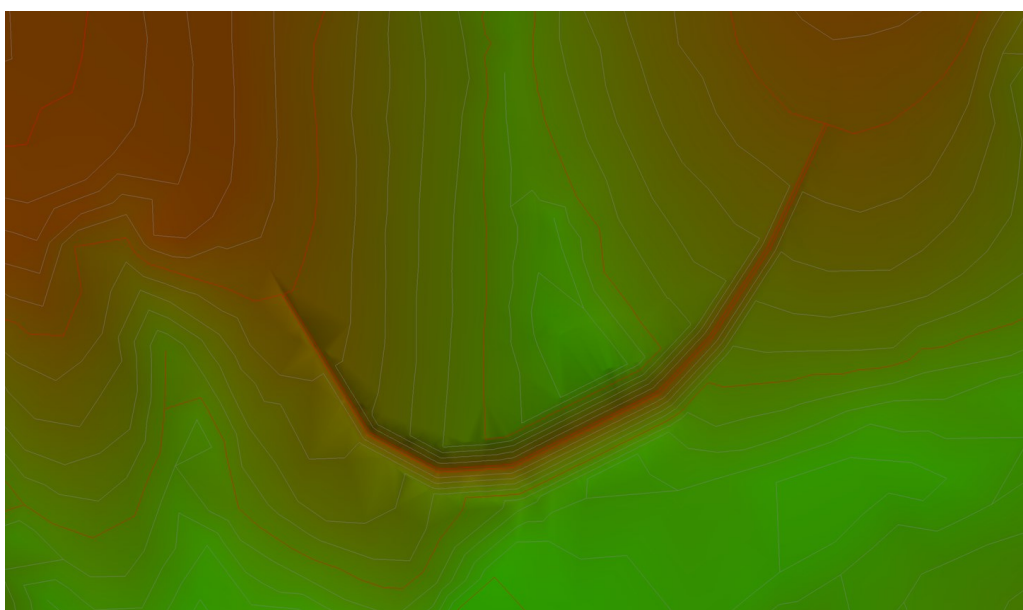
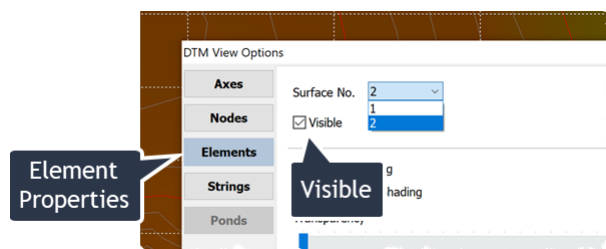
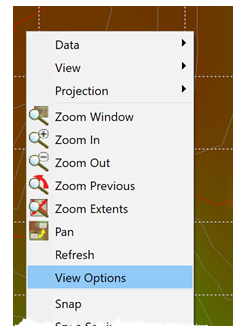
To **merge** the **Embankment** into the **Base Surface**:

- Either:
 - **Click Surface > Merge**; or
 - **Click the Merge Tool-button.**
- On the **Merge Surface Dialog**:
 - **Set the Source Surface to Surface 2** (the Embankment).
 - **Set the Destination Surface to Surface No. 1** (the Base Surface).
 - **Set the Merge Option to Merge All Nodes.**
 - **Click Ok.**



Hide Surface No. 2 to see the merge result:

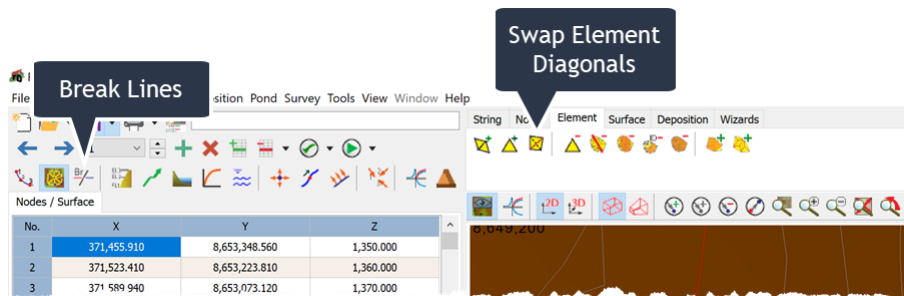
- **Right Click** on the **DTM View** and select **View Options**.
- **Select Element Options.**
- **Select Surface No. 2.**
- **Uncheck Visible.**
- **Click Ok.**



Merged Surface

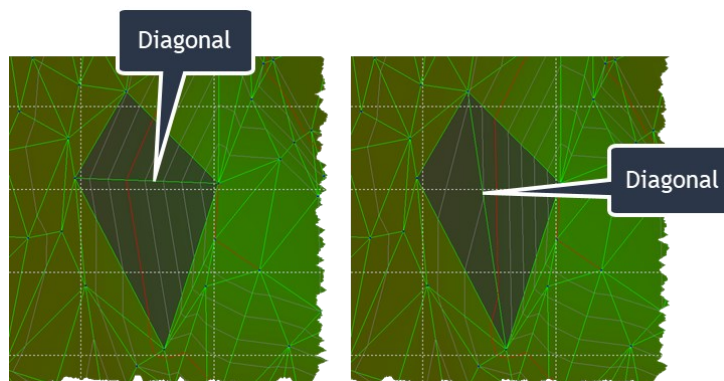
If necessary, you can **edit element diagonals** by either:

- **Swapping diagonals**; or
- Using **Break Lines**.



To **swap Element Diagonals**:

- **Activate** the **DTM View**.
- Either:
 - **Click** **Surface > Elements > Swap Diagonal**; or
 - **Click** the **Swap Element Diagonal Tool-button** on the **Element Toolbar**.
- **Click** on the **DTM View** close to the diagonal that you want to swap.



To **define Break Lines**:

- **Activate** the **Surface** that you would like to **define Break Lines** for using the **Active Surface Drop Down Box**.
- **Activate Break Lines**:
 - **Click** **Edit > Break Lines**; or
 - **Click** the **Break Line Tool-Button**.
- **Define Break Lines** on the **DTM View**; **activate DTM View Add Data**.
 - **Click** **Data > Edit in View > Add**; or
 - **Click** the **View Add Tool-button**; or
 - **Right Click** on the **DTM View** and **click Data > Add**.
- **Click** on the **DTM View** to **define** the **Break Line**.

