



Verisk International Demand Surge Tool Installation Guide

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1 About the Touchstone International Demand Surge tool

This tool allows users to generate loss results table information to see what new demand surge factors were used in the loss calculation within a given loss analysis when the new country-specific demand surge was applied.

In this initial release, we have implemented the new demand surge model only for the following European models:

- Verisk Earthquake Model for the Pan-European Region
- Verisk Extratropical Cyclone Model for Europe
- Verisk Severe Thunderstorm Model for Europe
- Verisk Inland Flood Model for Central Europe
- Verisk Inland Flood Model for Great Britain

You can run the new Demand Surge model in FUWLA mode for the Verisk Earthquake Model for the Pan-European Region and the Verisk Extratropical Cyclone Model for Europe.

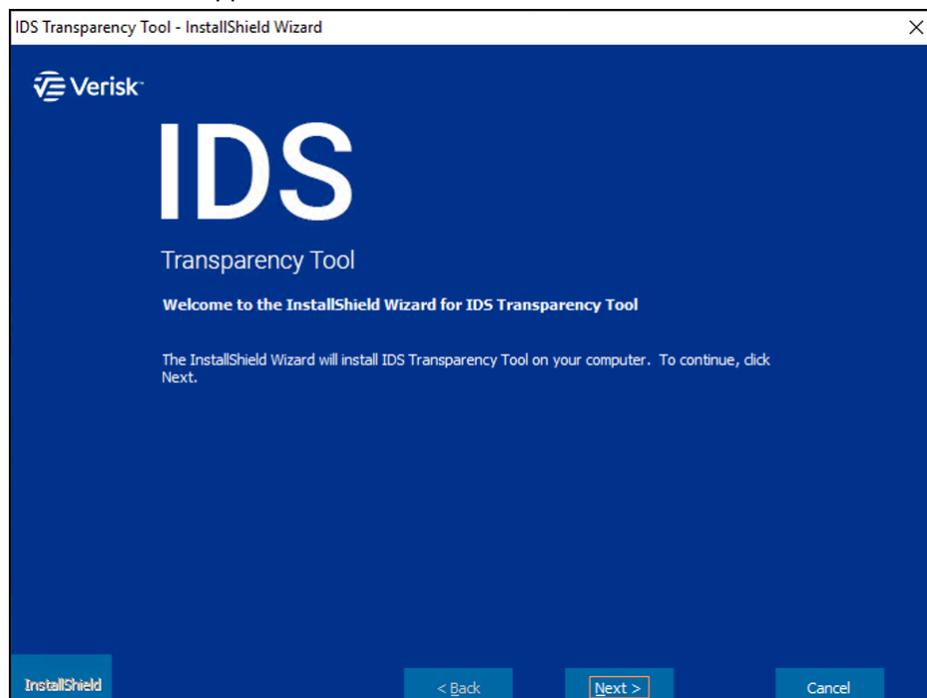
The standalone tool allows users to see related demand surge factors applied to the loss if the loss was large enough for that model/country to trigger demand surge based on model requirements from the Verisk research team.

2 Install the international demand surge tool

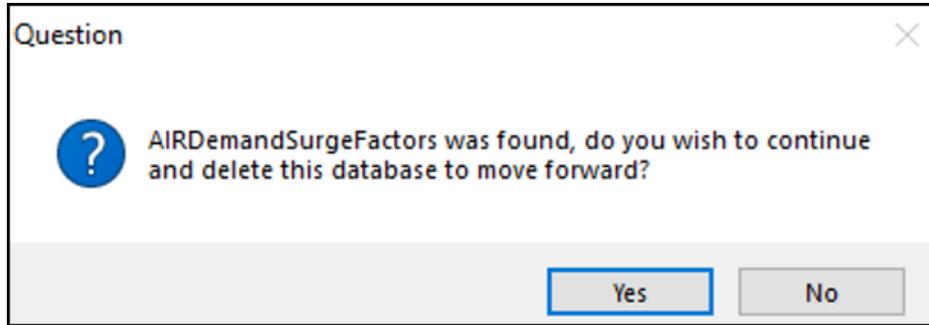
Use the international demand surge tool to see how demand surge factors were applied in the loss calculations for a given loss analysis when the new country-specific demand surge was applied.

Procedure

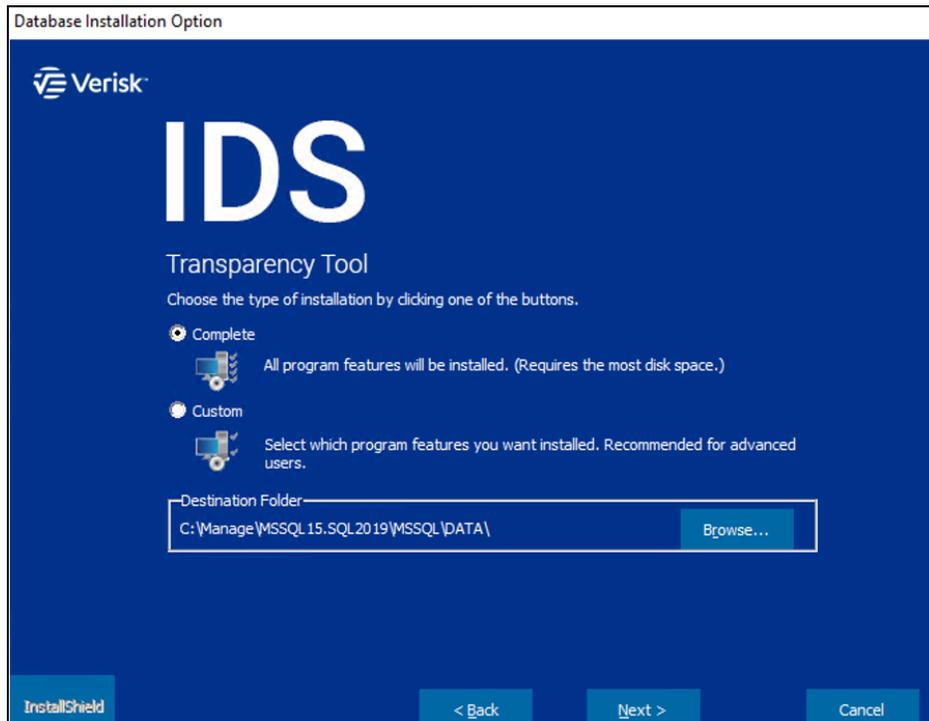
1. Download the utility from \\edc\installer\software\Data Conversion Tools\IDS Transparency Utility\newSkin to the database machine where the SQL instance of Touchstone is located.
2. Run **IDS Transparency Utility.exe**.
The **Welcome** screen appears.



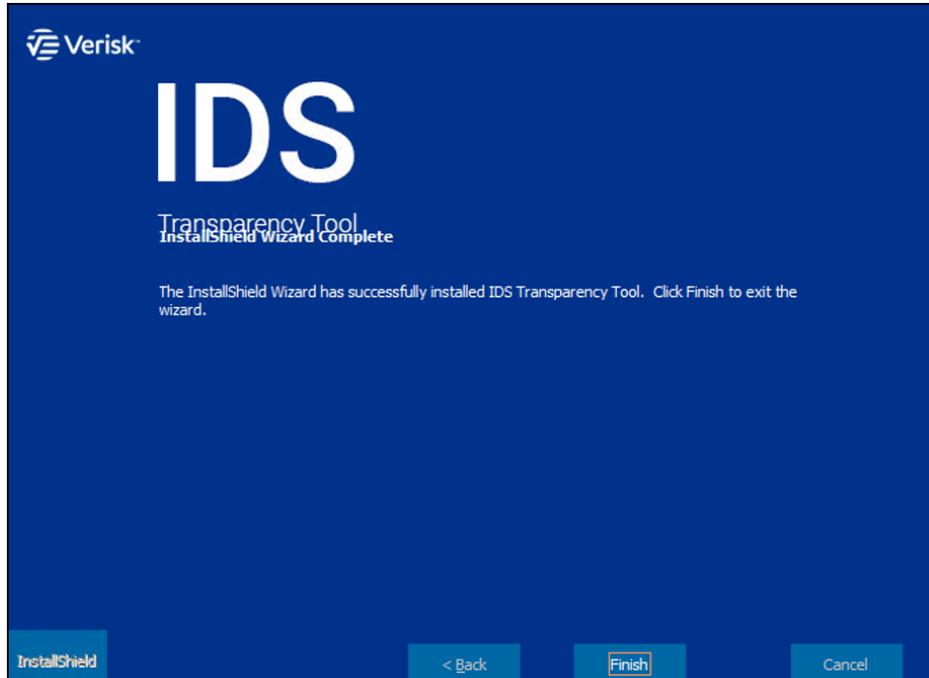
3. Click **Next**.
The program lists the database instances in the list.
4. Select any database instance that you want to use.
5. Select either Windows authentication or SQL Server authentication.
If you select Windows authentication, the program automatically retrieves the user name and password. If you select SQL Server authentication, enter the login ID and password.
6. Click **Next**.
If the AIRDemandSurgeFactors database was already installed, the wizard prompts you to confirm deletion of the existing database to continue the installation.



7. Click **Yes** to delete the database or **No** to cancel the installation.
8. If you clicked **Yes**, choose the installation type.
You can choose **Complete** or **Custom**, where you choose which features to install.



9. Select the destination folder and then click **Next**.
The user must have write permission to the target location.
10. Click **Finish** when the installation is successful.



Next Steps

Verify the Result database: [Verify the Result database after running the tool](#)

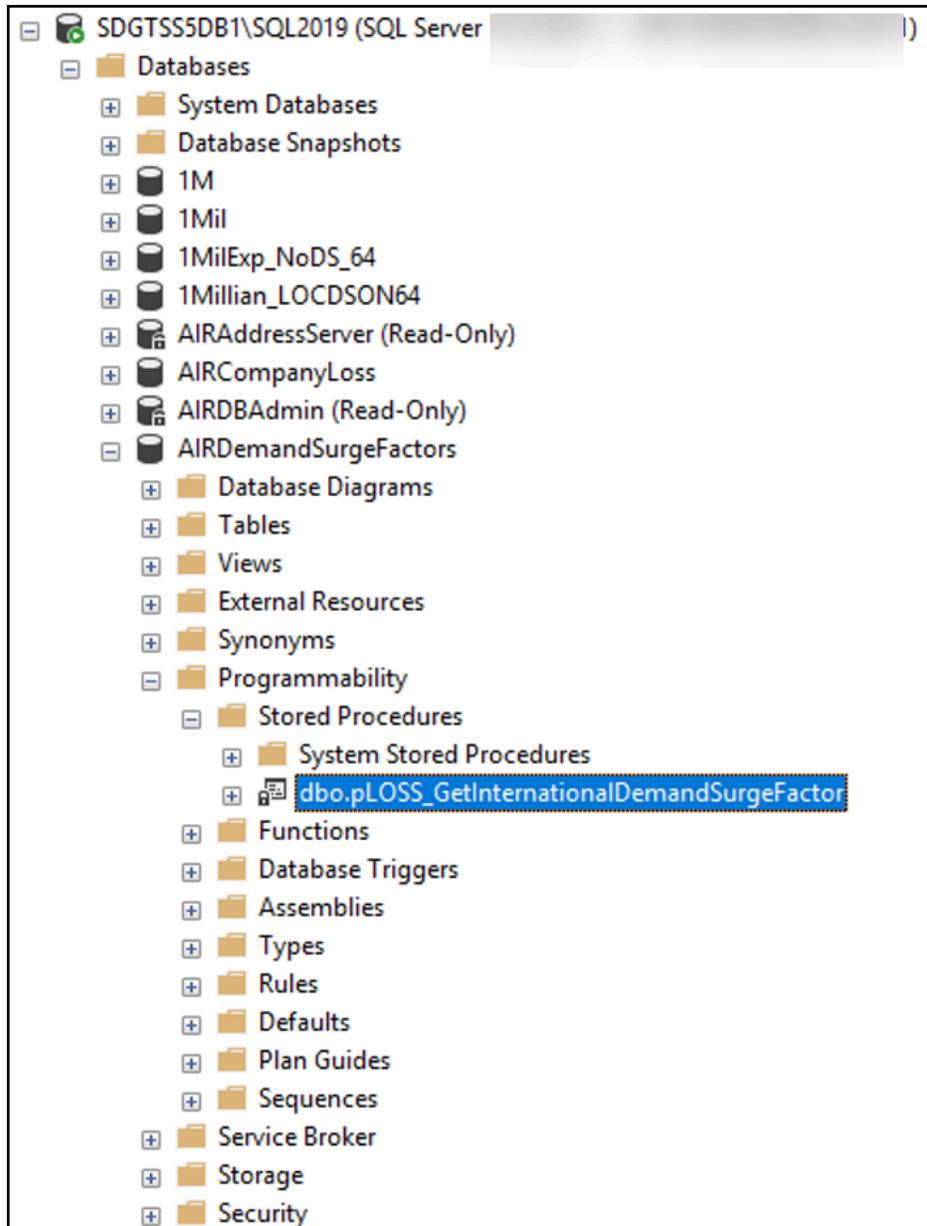
3 Use the international demand surge tool

Access the AIRDemandSurgeFactors database through stored procedures

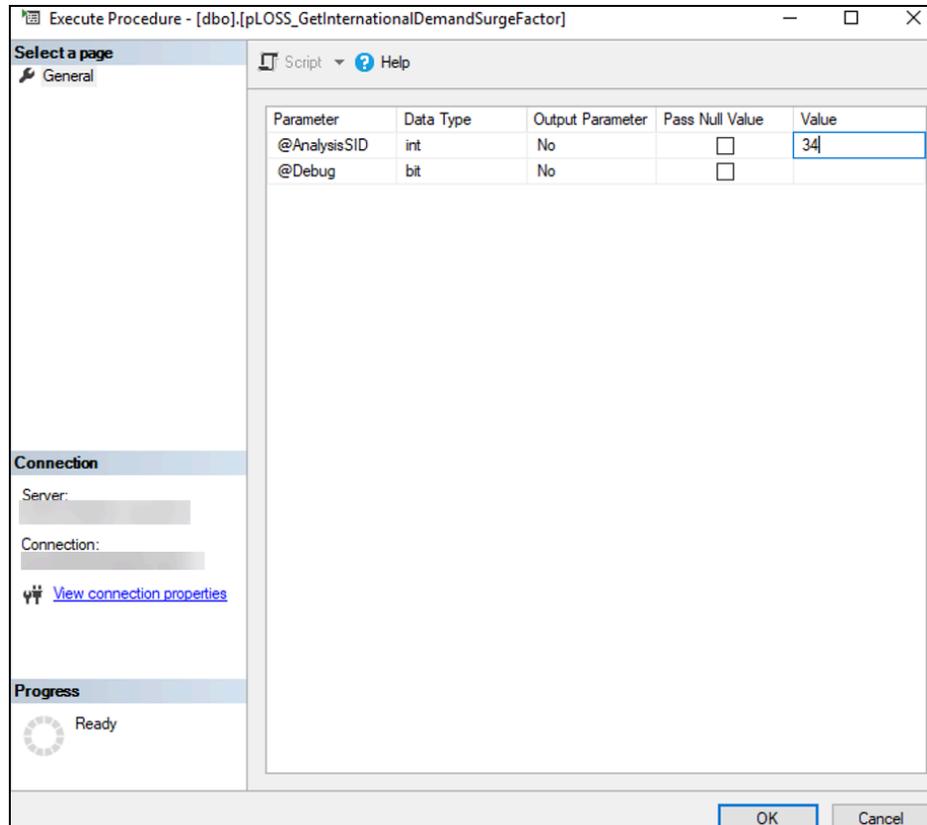
Generate the loss results transparency table by accessing the AIRDemandSurgeFactors database and executing stored procedures.

Procedure

1. Launch the SQL instance where the AIRDemandSurgeFactors database is installed.
2. Navigate to **AIRDemandSurgeFactors database > Programmability > System Stored Procedures**.



3. Right-click `dbo.pLOSS_GetInternationalDemandSurgeFactor`.
4. Execute the stored procedure.



5. Pass the AnalysisSID, which was run with demand surge for the European models.
6. Verify that the stored procedure was successfully executed.

Access the AIRDemandSurgeFactors database through an SQL query

Generate the loss results transparency table by accessing the AIRDemandSurgeFactors database through an SQL query.

Procedure

1. Launch the SQL instance where the AIRDemandSurgeFactors database is installed.
2. Right-click on the AIRDemandSurgeFactors database.
3. Select **New query**.
4. Paste the following query, where the value of AnalysisSID is the analysis SID that was run with demand surge for the European models:

```
USE [AIRDemandSurgeFactors]
GO
DECLARE @return_value int
EXEC @return_value = [dbo].[pLOSS_GetInternationalDemandSurgeFactor]
    @AnalysisSID = 36
SELECT 'Return Value' = @return_value
```

GO

```
USE [AIRDemandSurgeFactors]
GO
DECLARE @return_value int
EXEC @return_value = [dbo].[pLOSS_GetInternationalDemandSurgeFactor]
    @AnalysisSID = 36
SELECT 'Return Value' = @return_value
GO
```

4 Verify the Result database

Verify the Result database after running the tool

Verify the Result database after running the international demand surge tool.

In the Result database, for the ResultSID, verify that the **t1_LOSS_InternationalDemandSurgeFactor** table has been created with the applicable demand surge factors.

```

/***** Script for SelectTopNRows command from SSMS *****/
SELECT TOP (1000) [CatalogTypeCode]
, [YearID]
, [ModelCode]
, [GeographySID]
, [CoreDemandSurgeFactor]
, [CostInflationFactor]
, [FinalDemandSurgeFactor]
FROM [1Millian_LOCDSON64].[dbo].[t1_LOSS_InternationalDemandSurgeFactor]

```

	CatalogTypeCode	YearID	ModelCode	GeographySID	CoreDemandSurgeFactor	CostInflationFactor	FinalDemandSurgeFactor
1	STC	680	31	109	1.054	0.03	1.084
2	STC	3899	31	109	1.012	0.03	1.042
3	STC	5592	41	22	1.0155	0.03	1.0455
4	STC	9600	41	81	1.0123	0.03	1.0423
5	STC	1676	43	81	1.0243	0.03	1.0543
6	STC	8101	31	233	1.1689	0.03	1.1989
7	STC	191	41	74	1.0302	0.03	1.0602
8	STC	1894	31	74	1.0917	0.03	1.1217
9	STC	2544	41	81	1.0313	0.03	1.0613
10	STC	4132	31	214	1.0409	0.03	1.0709
11	STC	6828	41	74	1.0102	0.03	1.0402
12	STC	238	41	156	1.0246	0.03	1.0546
13	STC	9167	31	100	1.0173	0.03	1.0473

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