

Drawing Creation Tutorial

Creating Snapshot Views



Version 2014

Friday, June 13, 2014



Copyright

© 2014 Intergraph® Corporation and/or its affiliates. All Rights Reserved.

Warning: This computer program, including software, icons, graphical symbols, file formats, and audio-visual displays; may be used only as permitted under the applicable software license agreement; contains confidential and proprietary information of Intergraph and/or third parties which is protected by patent, trademark, copyright and/or trade secret law and may not be provided or otherwise made available without proper authorization.

Restricted Rights Legend

Use, duplication, or disclosure by the Government is subject to restrictions as set forth in subparagraph (c) (1) (ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013 or subparagraphs (c) (1) and (2) of Commercial Computer Software -- Restricted Rights at 48 CFR 52.227-19, as applicable.

Unpublished - rights reserved under the copyright laws of the United States.

Terms of Use

Use of this software product is subject to the End User License Agreement ("EULA") delivered with this software product unless the licensee has a valid signed license for this software product with Intergraph Corporation. If the licensee has a valid signed license for this software product with Intergraph Corporation, the valid signed license shall take precedence and govern the use of this software product. Subject to the terms contained within the applicable license agreement, Intergraph Corporation gives licensee permission to print a reasonable number of copies of the documentation as defined in the applicable license agreement and delivered with the software product for licensee's internal, non-commercial use. The documentation may not be printed for resale or redistribution.

Warranties and Disclaimers

All warranties given by Intergraph Corporation about software are set forth in the EULA provided with the software or with the applicable license for the software product signed by Intergraph Corporation, and nothing stated in, or implied by, this document or its contents shall be considered or deemed a modification or amendment of such warranties.

Intergraph believes the information in this publication is accurate as of its publication date. Intergraph Corporation is not responsible for any error that may appear in this document. The information and the software discussed in this document are subject to change without notice.

Trademarks

Intergraph and the Intergraph logo are registered trademarks of Intergraph Corporation. Hexagon and the Hexagon logo are registered trademarks of Hexagon AB or its subsidiaries. Microsoft and Windows are registered trademarks of Microsoft Corporation. Other brands and product names are trademarks of their respective owners.

SESSION 6

Creating Snapshot Views

Objective

By the end of this session, you will be able to:

- Snapshot a view in 3D model and use the preview option

Overview

In this lesson, we will look at creating snapshot views for drawings and reports. The **Snapshot View** command provides a quick and easy way to convert a 3D graphic view into a drawing. Snapshot views are typically used for non-standard view orientations. When you select **Tools > Snapshot View** in any 3D task, a ribbon appears allowing you to pick a composed drawing component, name the snapshot view, and assign a view style. When you click **Finish**, the software captures the view in the look direction of the 3D view. It also copies the definition of the filter used to define the workspace and stores it with the view.

The volume for the snapshot view is automatically created (in a hidden state) when you click **Finish** on the **Snapshot View** ribbon. The volume is defined in one of two ways:

- If there is view clipping in the graphic window, the volume is created the same size as the clipping boundary.
- If there is no view clipping in the graphic window, the volume encompasses the view range in the active graphic view.

To better control the size of the volume, it is recommended to take snapshots from a clipped 3D view.

You can check the **Generate Preview** box on the **Snapshot View** ribbon to create a preview that displays the visible objects from the 3D view permitted by the view style. Visible edges in the preview are drawn with a black continuous line style, and hidden edges are not drawn. The snapshot preview does not include labels or dimensions, even if they are in the view style.



On the next pages, we will demonstrate how you can create a snapshot view and then generate a preview from the 3D model.

Create New Drawing

1. Switch to the **Drawing Console** window.
2. Expand the **Creation Labs\05** folder.
3. Right-click **Labs\05\Equipment**, and select **New Drawing**.
*The **Drawing Sheet General Properties** dialog box displays.*
4. Type **Snapshot U01** in the **Name** field on the **Drawing Sheet General Properties** dialog box.
TIP The **Layout Template** and **Border Template** fields remain populated, so you do not need to edit them.
5. Click **OK** on the **Drawing Sheet General Properties** dialog box.

*The software opens the new drawing in a **SmartSketch Drawing Editor** window.*

Create Snapshot View

1. Switch to the **Smart 3D** window.
2. Click **File > Define Workspace**.
*The **Define Workspace** dialog box displays.*
3. Select **More** from the **Filter** list. Then, select **Drawings Creation Filters\05U01 Workspace**.
TIP The only change in the workspace is to remove the **U01 2 Points** volume, so that only objects from the **System** tab are included in the workspace definition for the creation of the snapshot. The volume could have been hidden to prevent it from showing in the snapshot view.
4. Click **OK** on the **Define Workspace** dialog box.
The software populates the workspace with modeled objects.
5. Click **Common Views** , and select the face that is looking **Northeast and Down**.
6. Click **Fit** .
The software fits all the objects into the graphic view.
7. Click **Tools > Snapshot View**.
*The **Snapshot View** ribbon displays.*



TIP A snapshot view creates a drawing view query based on the workspace definition. The volume for the snapshot view is automatically created when you click **Finish** on the **Snapshot View** ribbon. It is defined in one of two ways:

- a. If there is no view clipping in the graphic window, the volume encompasses the view range in the active graphic view.

- b. If there is view clipping in the graphic window, the volume is created the same size as the clipping boundary.

The snapshot volume is initially created in a hidden state.

8. Select **More** from the **Drawing** type list on the **Snapshot View** ribbon:

*The **Select Drawing Type** window displays.*

9. Expand the **Drawings\Creation Labs\05** folder on the **Select Drawing Type** window.

10. Select **Equipment**.

11. Click **OK** on the **Select Drawing Type** window.

12. Type **Snapshot Isometric View01** in the **View Name** field.

13. Select **More** from the **View** style list.

*The **Select View Style** dialog box displays.*

14. Select **Orthographic\Equipment Isometric** on the **Select View Style** dialog box.

15. Click **OK** on the **Select View Style** dialog box.

16. Select **More** from the **Space Folder** list.

*The **Select Space Folder** dialog box displays.*

17. Select the space folder **Drawings Creation Labs\05**.

18. Click **OK** on the **Select Space Folder** dialog box.

19. Select **Generate Preview**.

20. Click **Finish** to create the snapshot.

Finish	Drawing type:	View name:	Naming rule:	View style:	Space Folder	
	Equipment	Snapshot Isometric View01	User Defined	Orthographic\Equipment	05	<input checked="" type="checkbox"/> Generate Preview

TIP The **Generate Preview** option produces a simple preview of the graphics at the time that the snapshot view is placed in the drawing. Visible edges in the preview are drawn with a black continuous line style and hidden edges are not drawn; in other words, the graphic rule settings in the view style are ignored.

The snapshot preview does not include labels or dimensions, even if they are in the view style.

Despite ignoring the rules in the view style, the snapshot preview does display only the objects permitted by the view style.

The snapshot preview does not display the objects that have been hidden in the 3D graphic window.



The snapshot preview ignores the **Selected Set** option on the **Snapshot View** ribbon and still displays all of the objects in the graphic view according to the criteria above.

21. Press **ESC** to exit **Snapshot View**.

22. Expand the **Drawings Creation Labs** and **05** space folders on the **Space** tab of the **Workspace Explorer**.

A new volume with same name as the snapshot view displays in the folder.

Place Snapshot View

1. Switch to the **SmartSketch Drawing Editor** window.
2. Maximize the drawing window in **SmartSketch Drawing Editor**.
3. Click **Fit** .
4. Click **Place Snapshot View**  from the toolbar.

*The **Place Snapshot View** ribbon displays.*

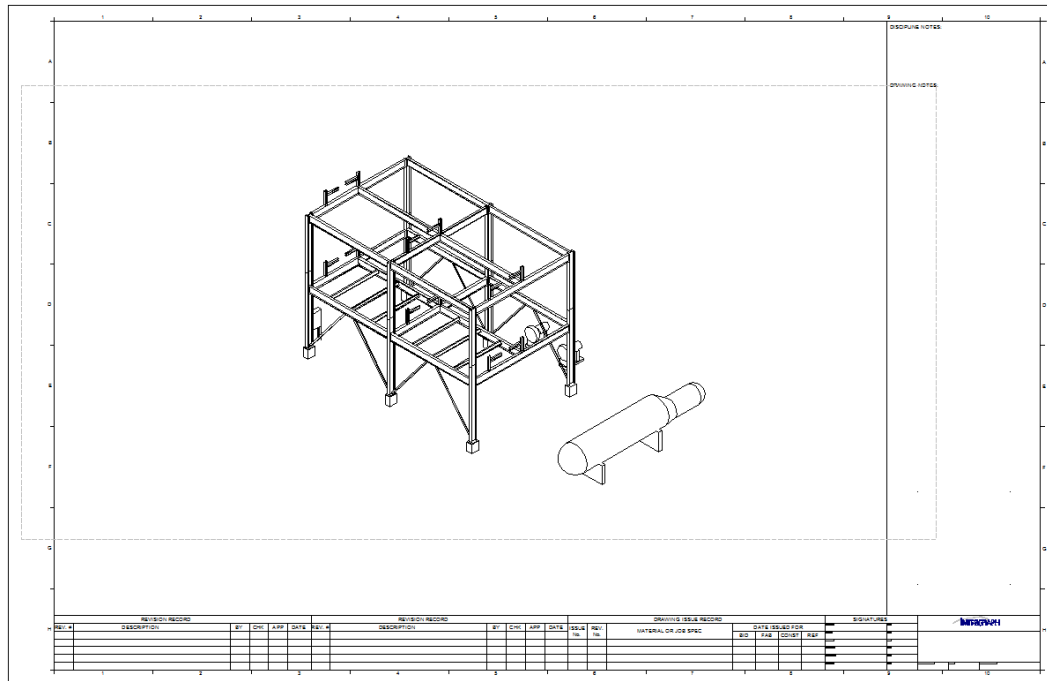
View Name:	View Style:	View Scale:		
Snapshot Isometric View01	Orthographic\Equipme	Fit To Scale	1.00 mm	1.00 mm

TIP The **View Name** list contains all of the unplaced snapshots associated with the drawing's parent component. The **Place Snapshot View** ribbon initially displays the 'oldest' unplaced snapshot in the **View Name** list. Use the list, if necessary, to change what view to place.

The **Place Snapshot View** ribbon initially displays the **View Scale** as **Fit To Scale**. To place a snapshot with this scale, drag the cursor in the drawing window to create a rectangle of the required size. If a scale is chosen, as is done in this lab, the size of the view is determined by the scaled size of the snapshot volume and it is placed with a single click

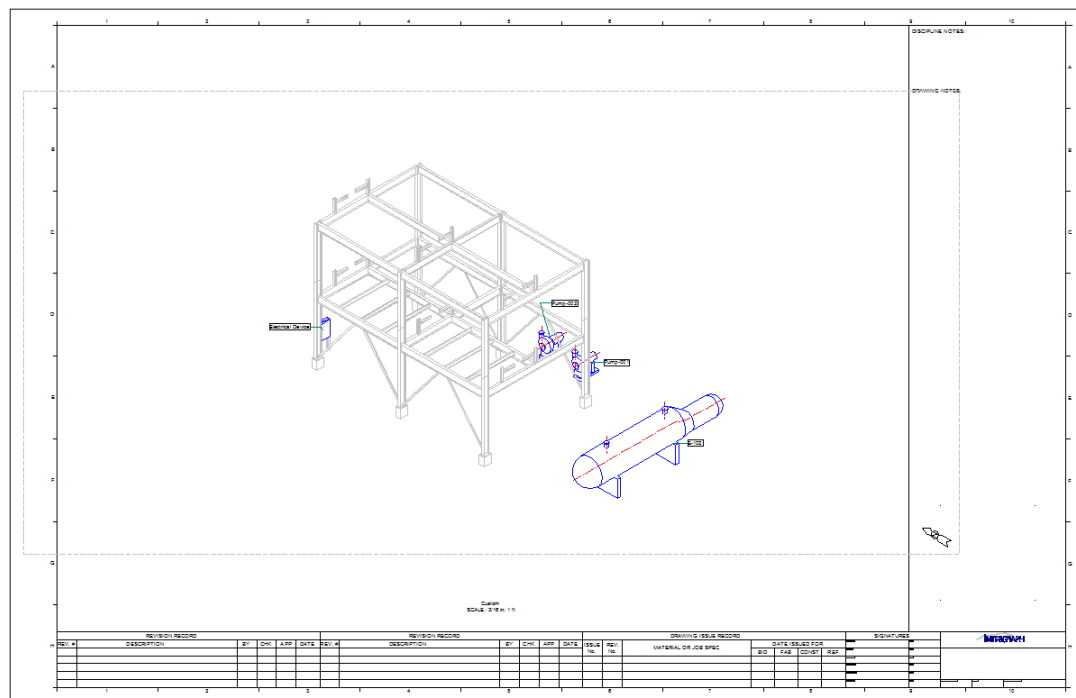
5. Select **Architectural Scales** from the **View Scale** list.
An additional list displays on the right end of the ribbon.
6. Select **3/16 in:1 ft** as the scale from the newly-added list.
7. Move the cursor over the drawing window.
A graphic view with preview appears attached to the cursor.

- Click within the border area to place the view.



- Right-click the view boundary, and select **Update View**.

When the update completes, the view contents should appear similar to the picture below:



- Click **File > Exit** to exit **SmartSketch Drawing Editor**. You do not need to save the drawing because the software automatically saved during the update of the view.

