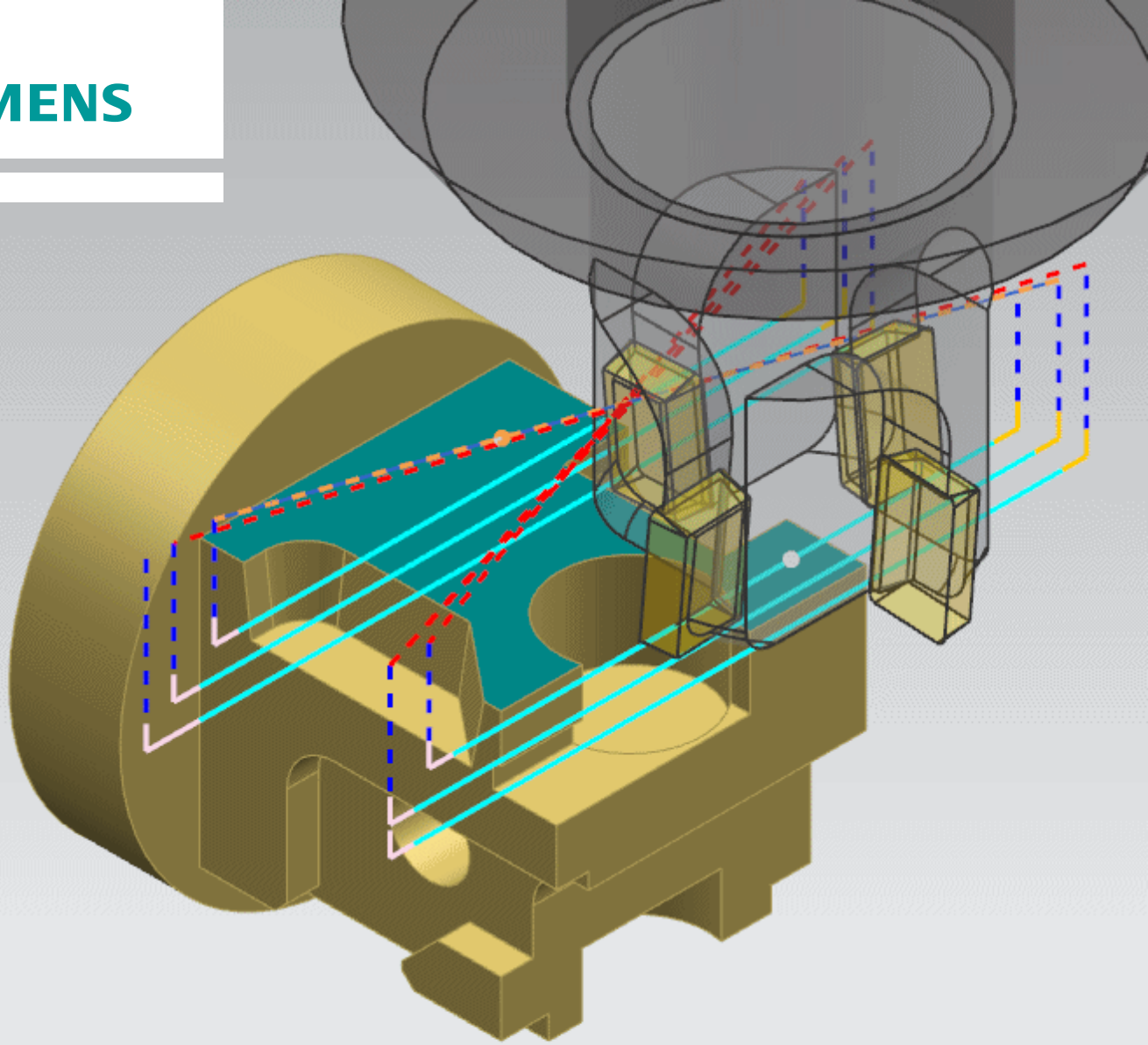


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Siemens PLM Software

# NX CAM 11.0.1: Tool and Tool Path Display Options

Specify how and where the tool displays when selecting the tool path.

Answers for industry.

## **About NX CAM**

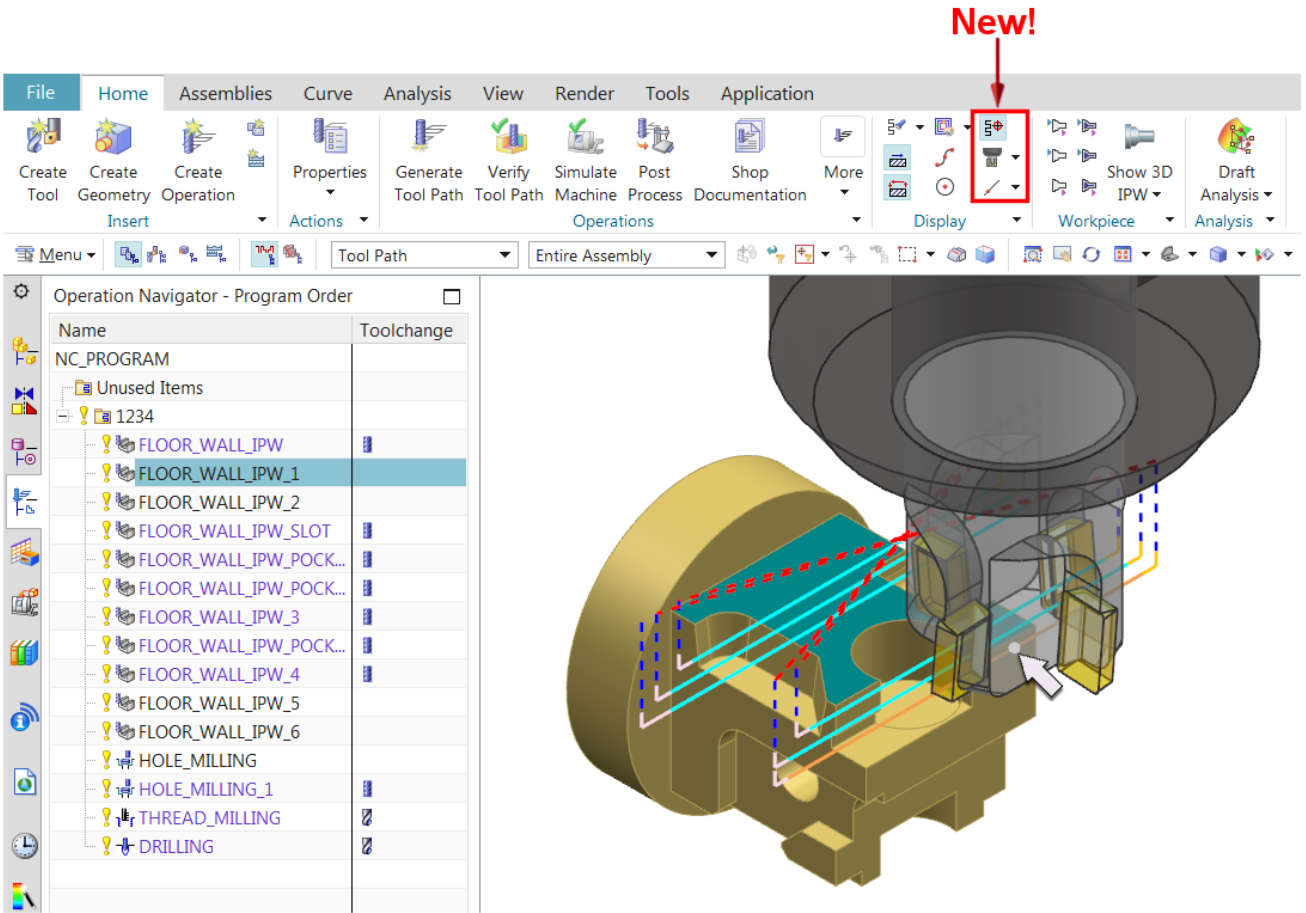
NX™ CAM software has helped many of the world's leading manufacturers and job shops produce better parts faster. You can also achieve similar benefits by making use of the unique advantages NX CAM offers.

This is one of many hands-on demonstrations designed to introduce you to the powerful capabilities in NX CAM 11.0.1. In order to run this demonstration, you will need access to NX CAM 11.0.1.

Visit the [NX Manufacturing Forum](#) to learn more, ask questions, and share comments about NX CAM.

# Hands-on Demonstration: Tool and Tool Path Display Options

When an operation is selected in the Operation Navigator, you can now specify how and where the tool displays when selecting a point on the tool path. This enhancement applies to all tool types.

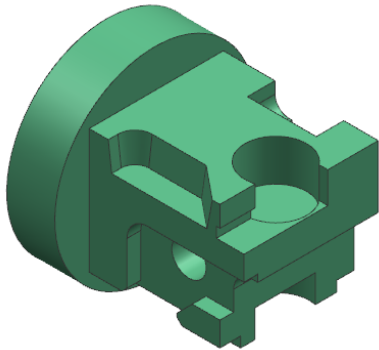


## Prerequisites:

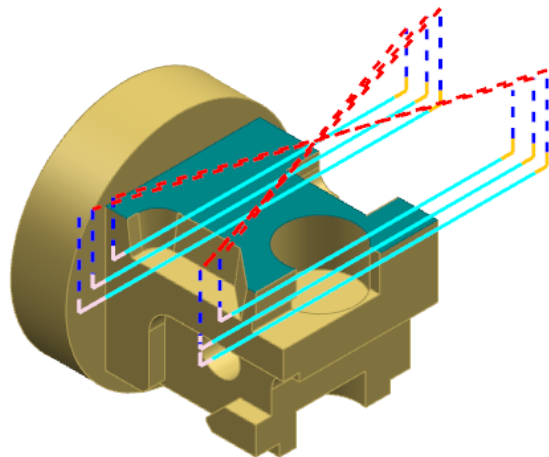
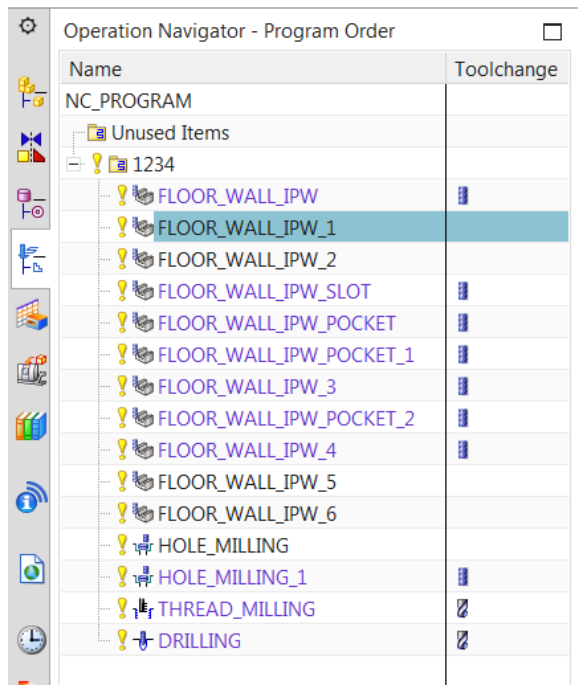
1. You will need access to **NX CAM 11.0.1** in order to run this demonstration.
2. If you haven't done so already, download and unzip **tool\_and\_tool\_path\_display\_options.7z**.

## Demo:

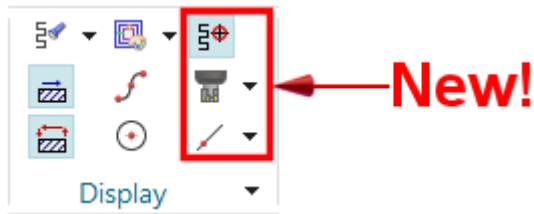
1. Open **display\_options.prt** in NX




2. In the Program Order View of the Operation Navigator, select **FLOOR\_WALL\_IPW\_1** in the Operation Navigator to display the tool path.




The Select Tool Path option and the Tool Display Type and Tool Snap Point Type drop-downs are new.



3. Click **Select Tool Path**  in the Display section of the Ribbon Bar.

4. Select **Tool**  from the Tool Display Type drop-down.

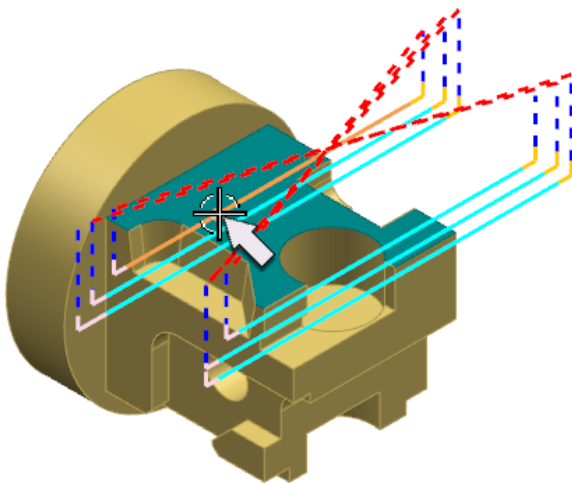
This option will display the tool with the holder when you select the tool path.

5. Select **Point**  from the Tool Snap Point Type drop-down.

This option will display the tool at the selected point along the tool path.

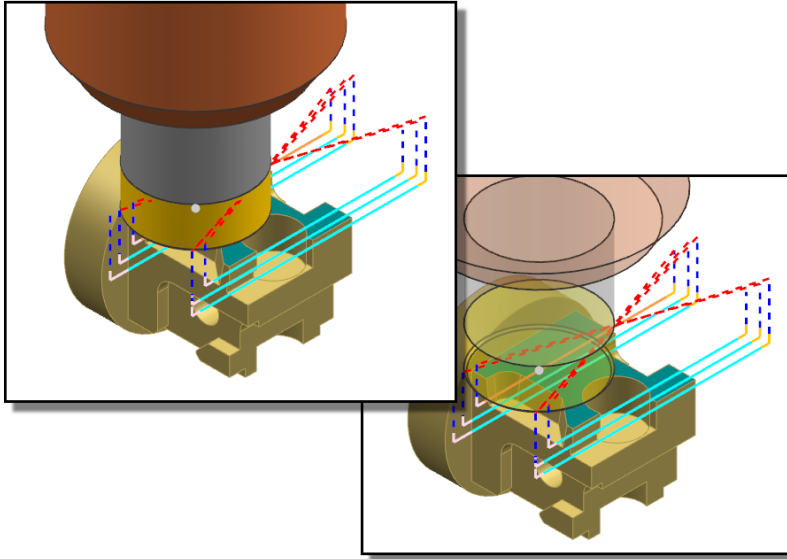
When you move the cursor over the tool path, NX displays a dot indicating the point that is about to be selected and highlights the tool path segment between GOTO values. This behavior is different from that of the Simulation where the machine and tool jump to GOTO locations only.

6. Select near the middle of the cutting pass.



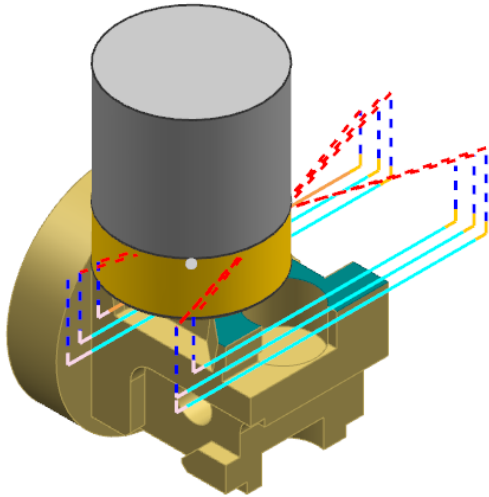
The tool with holder is displayed at the selected point.

**Note:** Displaying the tool as Translucent will allow you see the tool path when hidden under the tool. If you wish, select **Menu→Preferences→Manufacturing**, click the **Visualization** tab and set the desired tool translucency. Choose **Menu→Preferences→Visualization**, click the **Visual** tab, and select the **Translucency** check box. This demo will continue with translucency turned off.



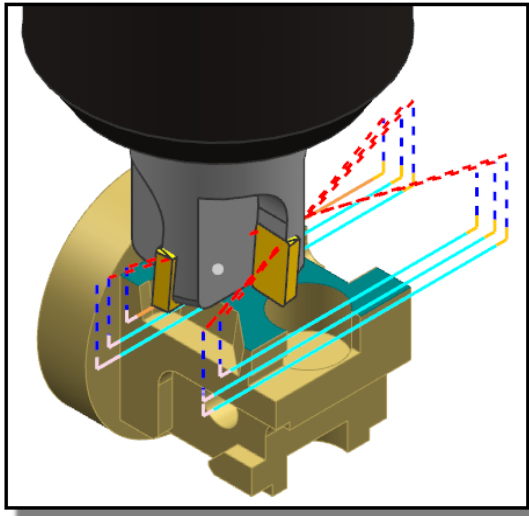
7. Select **Tool without Holder** .

The tool without holder is displayed at the selected point.

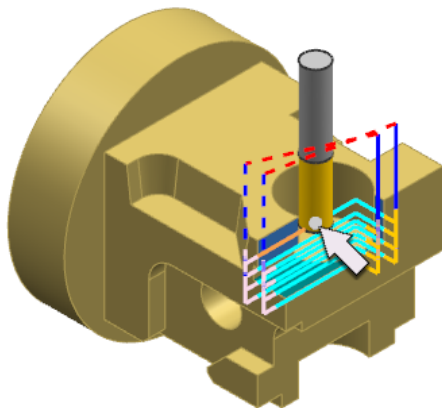


8. Select **Tool Assembly** .

The modeled tool assembly is displayed at the selected point.



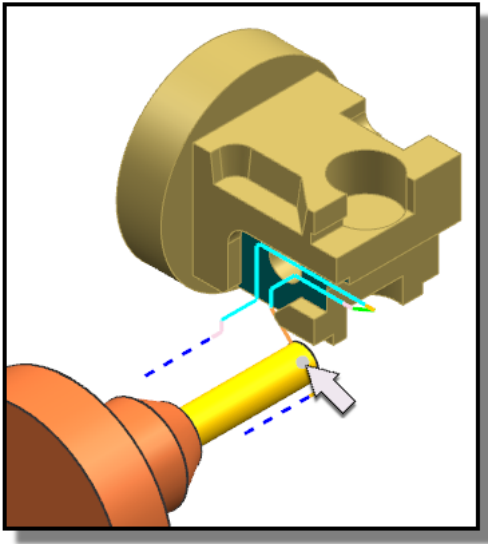
9. Select **FLOOR\_WALL\_IPW\_POCKET\_2** in the Operation Navigator.
10. Select anywhere on the tool path.



Although Tool Assembly is still selected, only the tool displays because the holder and assembly have not been defined.

11. Select **FLOOR\_WALL\_IPW\_5** in the Operation Navigator.

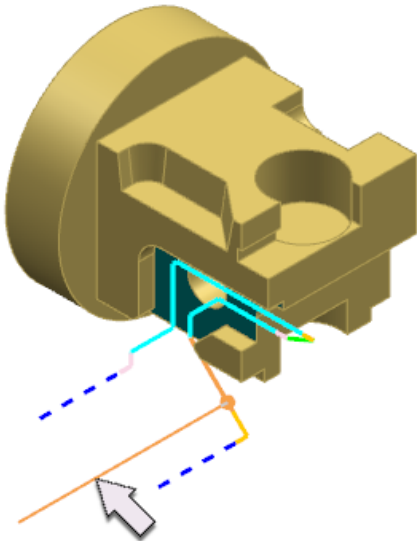
12. Select near the beginning of the tool path.



Although Tool Assembly is still selected, the tool and holder display because only the holder has been defined.

13. Select **Axis** .

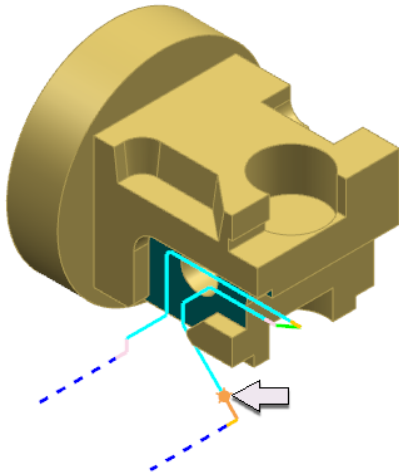
The tool position is displayed as a tool axis vector.



14. Select **Point** .



The tool position is displayed as a point.



15. Select **FLOOR\_WALL\_IPW\_1** in the Operation Navigator.

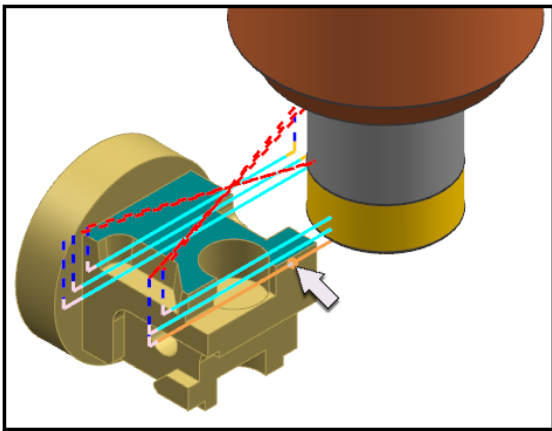
16. Select **Tool** .

17. Select **Nearest End Point** .

This option will display the tool at the nearest start or end point of the selected segment.

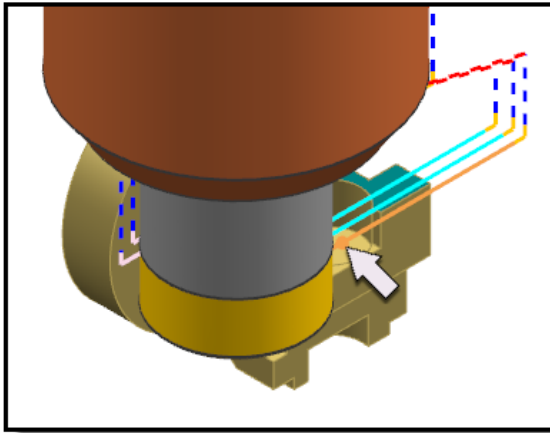
18. Select the cutting pass to the right of center as indicated below.

The tool with holder is displayed at the start point of the selected pass.



19. Select the cutting pass to the left of center as indicated below.

The tool with holder is displayed at the end point of the selected pass.

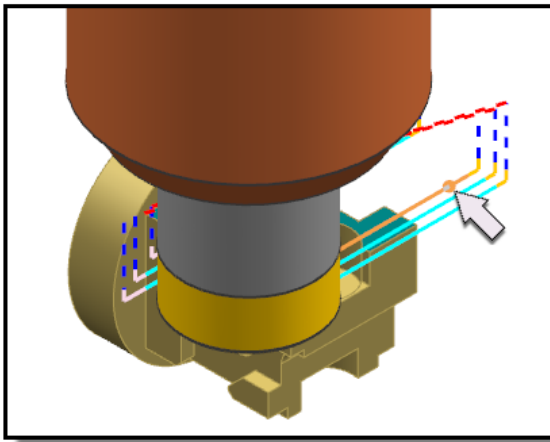


20. Select **End Point**  .

This option will display the tool at the end point of the selected pass regardless of where it is selected.

21. Select near the beginning of the cutting pass as indicated below.

The tool with holder is displayed at the end point of the selected pass.



22. Close the part without saving.

## Siemens Industry Software

### Headquarters

Granite Park One  
5800 Granite Parkway  
Suite 600  
Plano, TX 75024  
USA  
+1 972 987 3000

### Americas

Granite Park One  
5800 Granite Parkway  
Suite 600  
Plano, TX 75024  
USA  
+1 314 264 8499

### Europe

Stephenson House  
Sir William Siemens Square  
Frimley, Camberley  
Surrey, GU16 8QD  
+44 (0) 1276 413200

### Asia-Pacific

Suites 4301-4302, 43/F  
AIA Kowloon Tower, Landmark East  
100 How Ming Street  
Kwun Tong, Kowloon  
Hong Kong  
+852 2230 3308

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