

# **Integration Objects'**

## **MQTT IoT Connector for OPC DA**

**OPC Client for MQTT**  
Version 1.0 Rev. 0

## **QUICK USER GUIDE**

OPC Client for MQTT Quick User Guide Version 1.0 Rev 0  
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## ABOUT THIS USER GUIDE

This guide is a step by step guide on how to install, configure and run OPC Client for MQTT.

## INSTALLATION PRE-REQUISITES

In order to properly run the OPC Client for MQTT, make sure to install these software components on the target system:

- .NET Framework version 4.5 or higher
- OPC Core Components version 3.00

## INSTALLING OPC CLIENT FOR MQTT

To install the OPC Client for MQTT, run the installation executable using an administrator account and the wizard will take you through the different installation steps.

## STARTING OPC CLIENT FOR MQTT

Go to **Start → Programs → Integration Objects → OPC Client for MQTT → OPC Client for MQTT** to start the OPC Client for MQTT configuration tool.

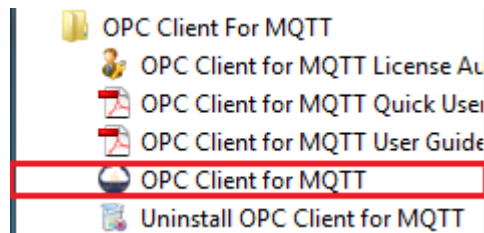
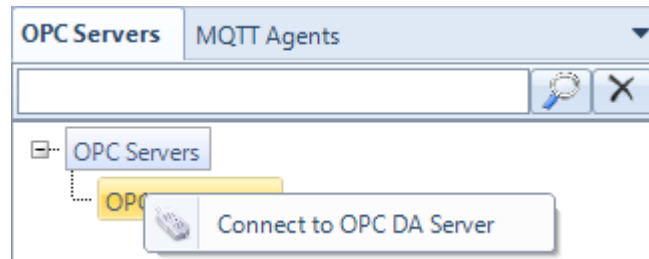


Figure 1: OPC Client for MQTT Start Menu

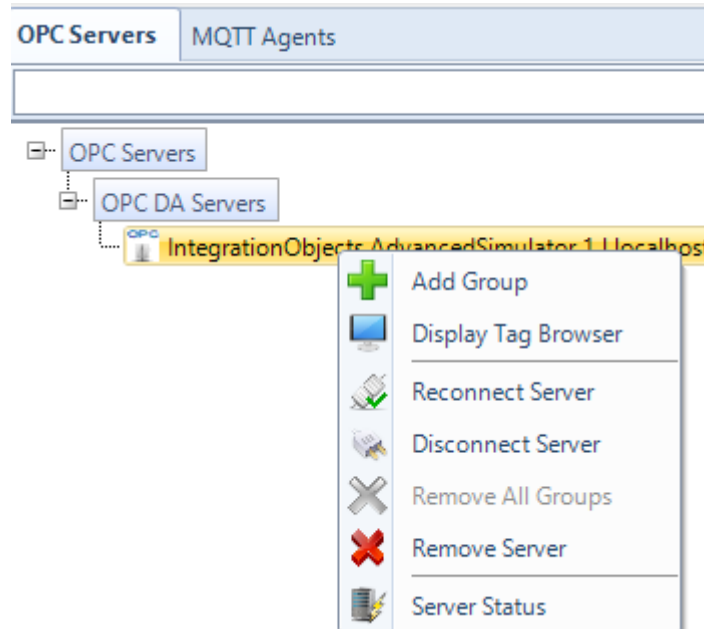
## ADDING AN OPC DA CONNECTION

1. In the main user interface, go to the OPC Servers tab.
2. Right click on the OPC DA Servers node and then select **Connect to OPC DA Server** from the displayed menu.



**Figure 2: Connect to OPC DA Server Menu**

3. Select you OPC DA Server from the displayed list and click on the **Connect** button.
4. Right Click on the connected OPC DA Server and then select **Add Group** from the displayed menu.



**Figure 3: Add Group**

5. Enter the OPC Group parameters and click the **Apply** button.
6. Right click on the OPC Group node and select the **Add Items** menu item.

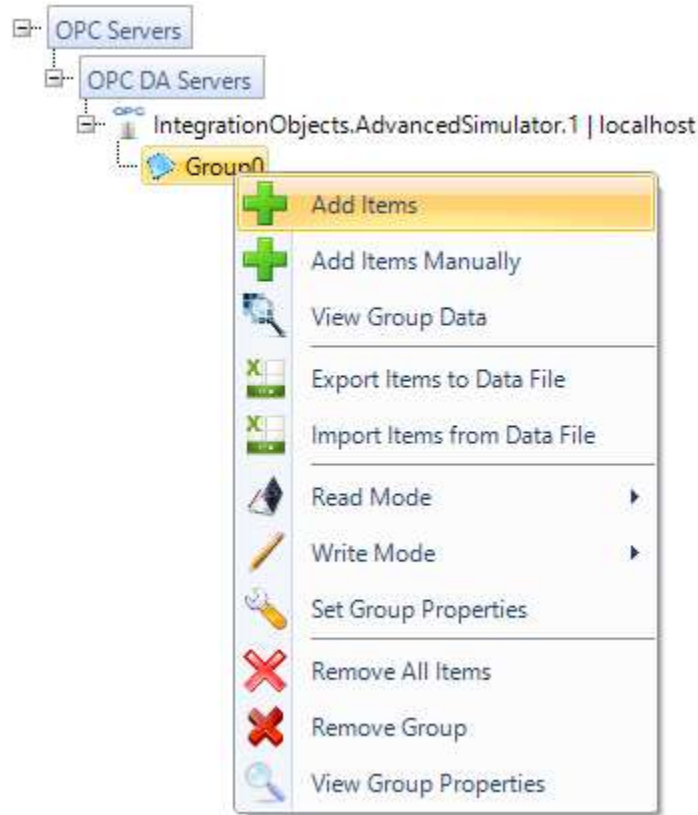


Figure 4: Add Items

7. Browse the OPC DA Server address space and select the required OPC items. Then, click on the **Apply** button.

## ADDING AN MQTT AGENT

1. In the main user interface, go to the MQTT Agents tab.
2. Right click on the DA MQTT Agents and select the **Add New Agent** from the displayed menu.

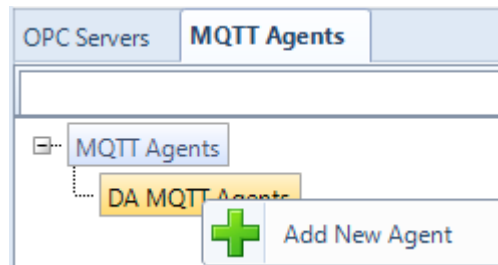
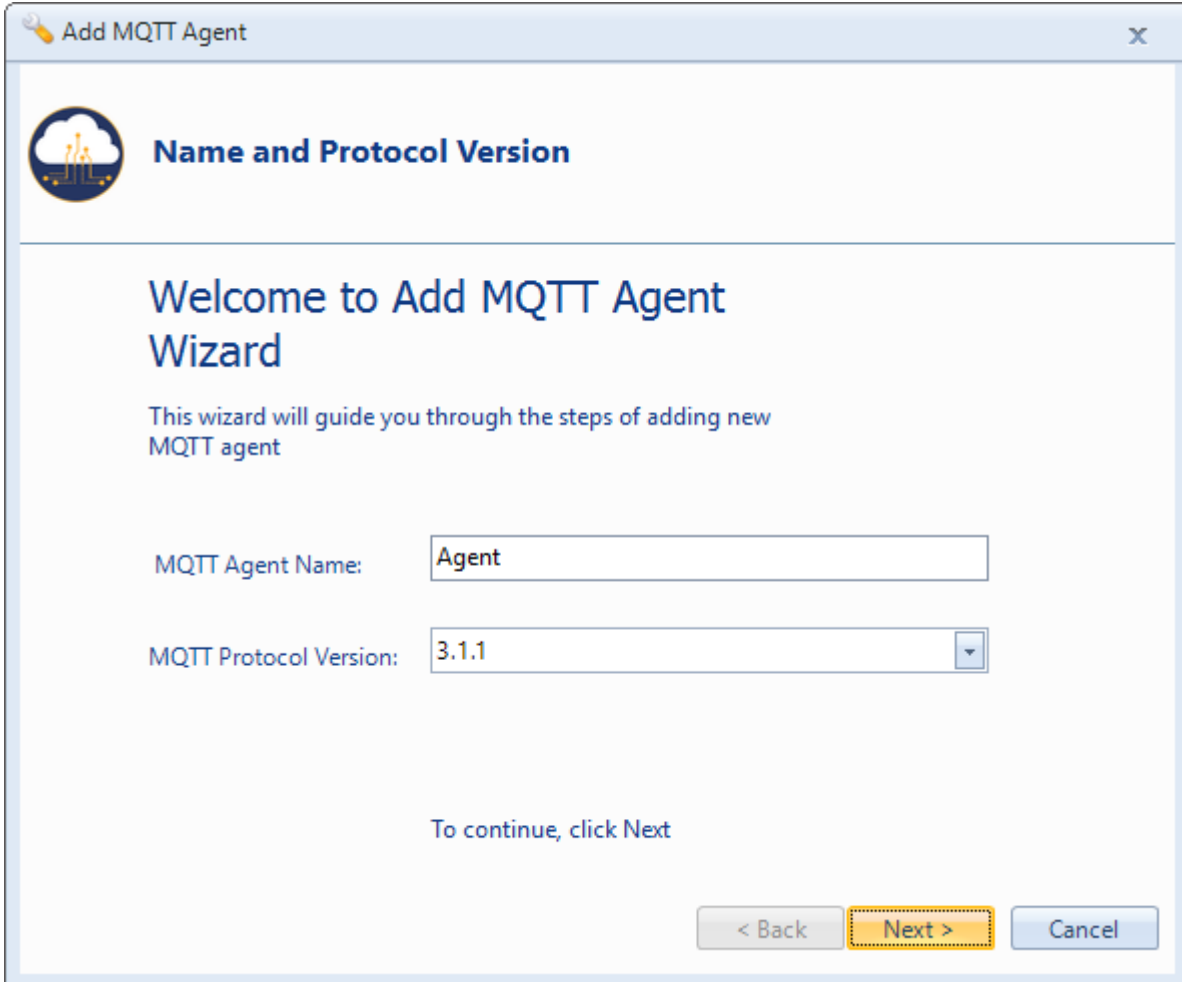


Figure 5: Add New Agent Context Menu Item

3. Enter the MQTT Agent name and the MQTT Protocol version. Then, click **Next**.



Add MQTT Agent

### Name and Protocol Version

Welcome to Add MQTT Agent Wizard

This wizard will guide you through the steps of adding new MQTT agent

MQTT Agent Name:

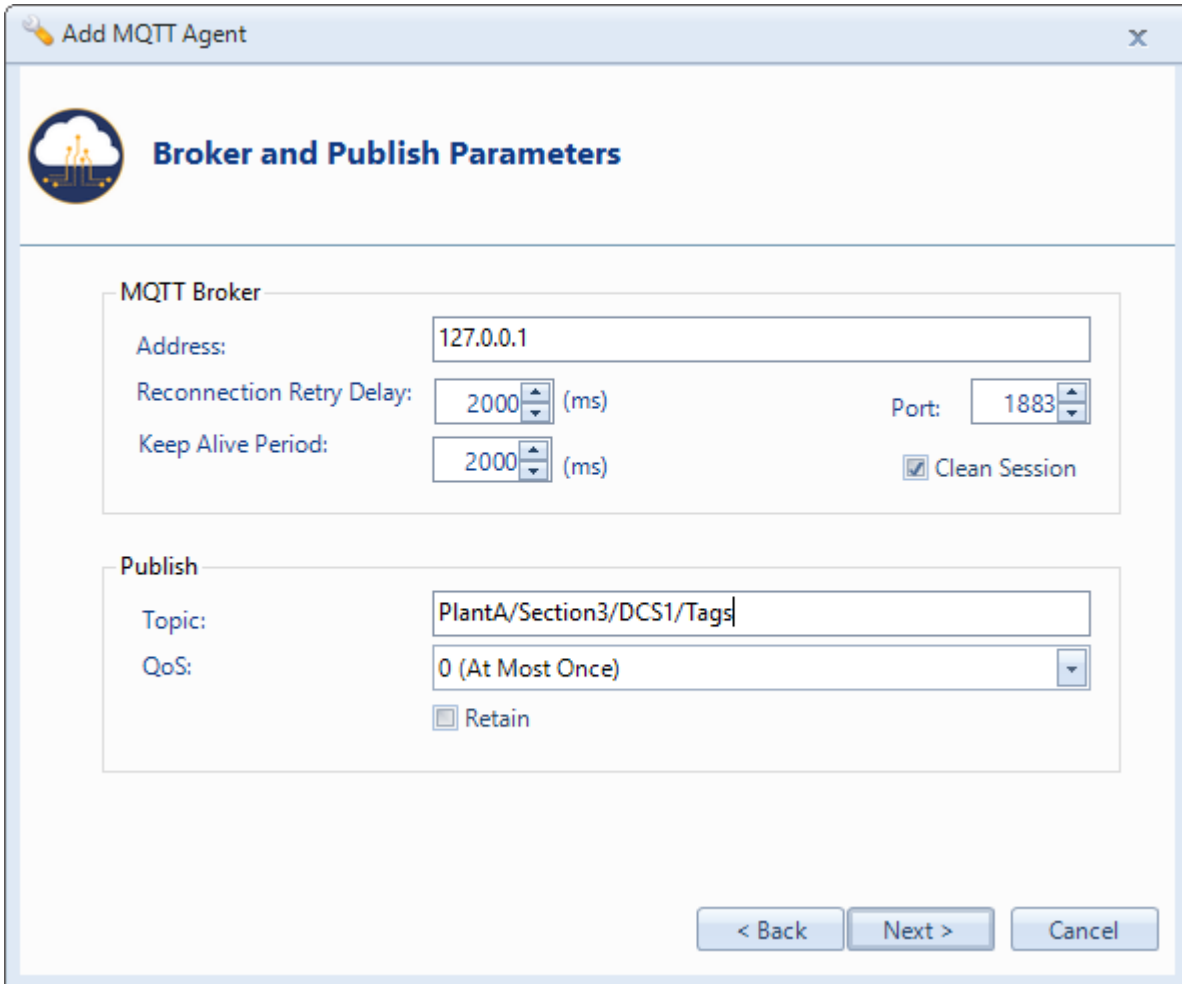
MQTT Protocol Version:

To continue, click Next

< Back   **Next >**   Cancel

Figure 6: Name and Protocol Parameters

4. Configure the MQTT broker and the publishing operations parameters. Then, click **Next**.



**Add MQTT Agent**

**Broker and Publish Parameters**

**MQTT Broker**

Address: 127.0.0.1

Reconnection Retry Delay: 2000 (ms)

Keep Alive Period: 2000 (ms)

Port: 1883

Clean Session

**Publish**

Topic: PlantA/Section3/DCS1/Tags

QoS: 0 (At Most Once)

Retain

< Back   Next >   Cancel

**Figure 7: Broker and Publish Parameters**

5. Select the group to be assigned to this agent. Then, click **Next**.

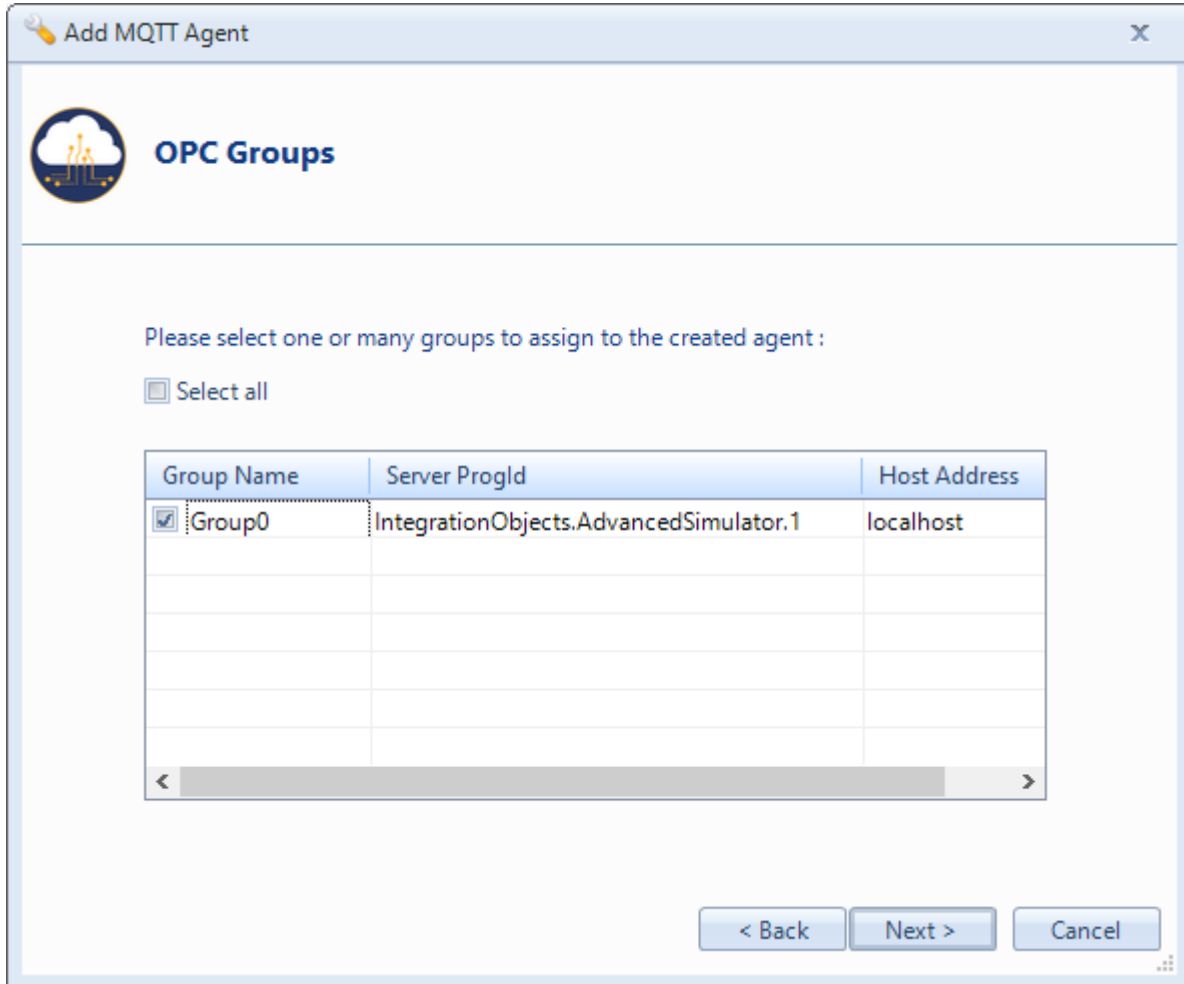
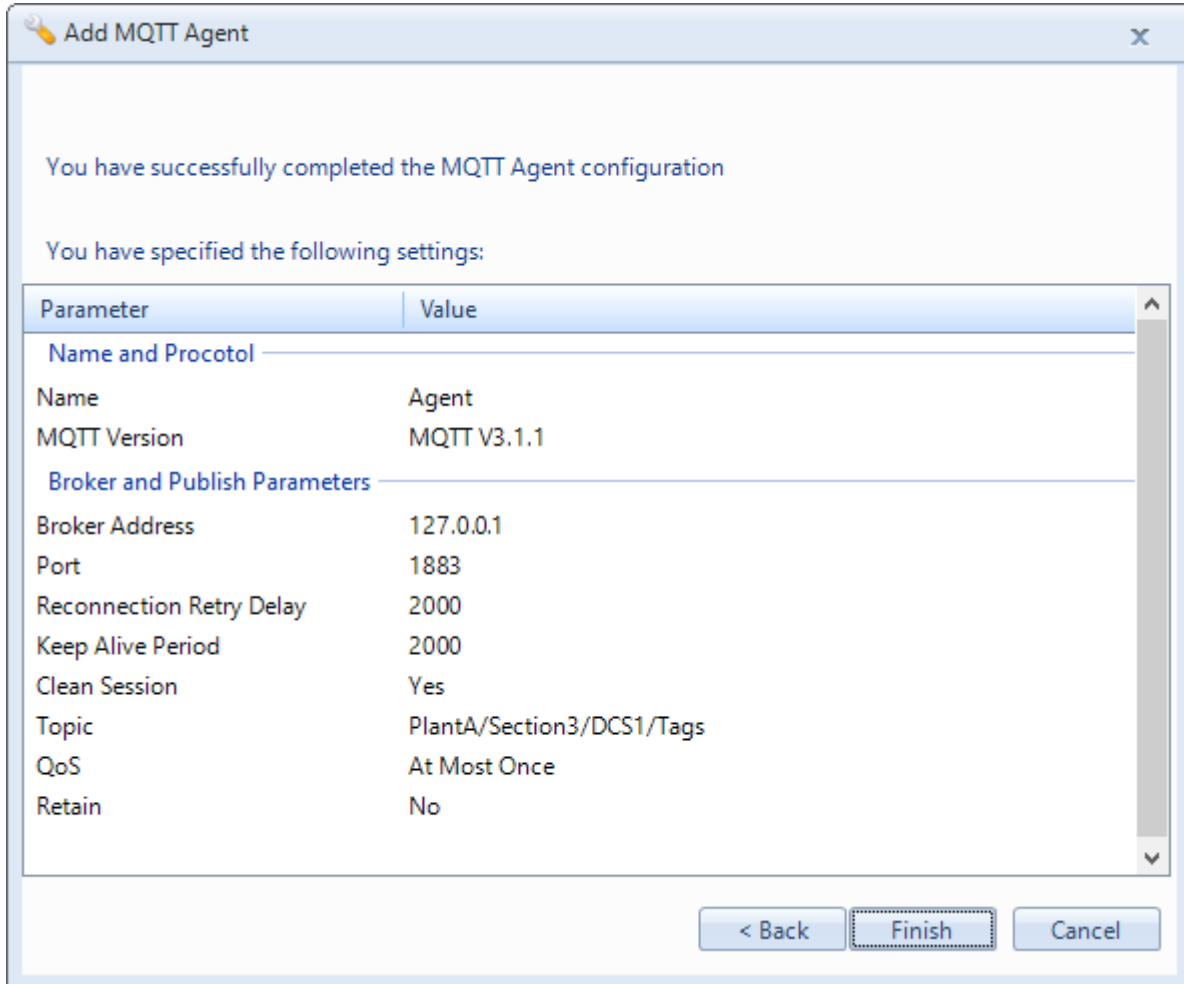


Figure 8: OPC Groups Selection

6. Verify your configuration and then click the **Finish** button.



**Figure 9: MQTT Agent Parameters Verification**



## LAUNCHING THE MQTT AGENT

Right click on the created MQTT Agent and select **Start** from the displayed menu. This will automatically launch the OPC DA data transfer to the configured MQTT broker.

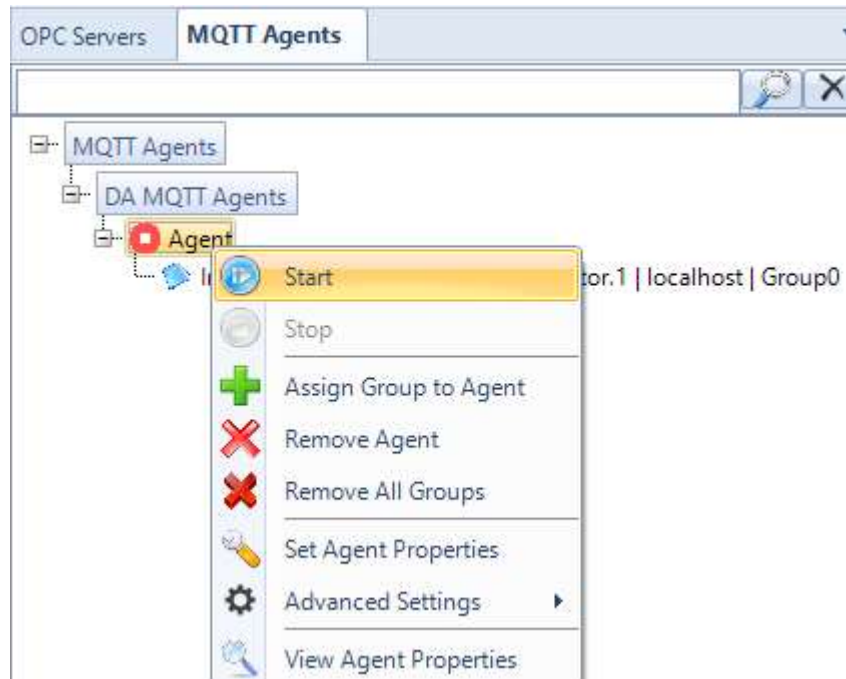


Figure 10: Start Agent Context Menu Item

For additional information on this guide, questions or problems to report, please contact:

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