



**AP/WGS 101.003**

# Nastel

## Workgroup Server Expert

Version 10.1.1.0

Installation Guide

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# Chapter 1: Introduction

Welcome to the *Workgroup Server (WGS) Expert Installation Guide*. This guide describes installation, configuration, and deployment. Please review this guide carefully before installing and using the product.

## 1.1 How this Guide is Organized

[Chapter 1:](#) Introductory information about this document as well as supplying support and reference information.

[Chapter 2:](#) Provides licensing information for the WGS expert.

[Chapter 3:](#) Provides installation instructions.

[Chapter 4:](#) Provides instructions for deploying the WGS expert.

[Chapter 5:](#) Provides database configuration information.

[Chapter 6:](#) Provides installation instructions for Nastel Navigator's Scheduler.

[Appendix A:](#) A list of reference material and documents.

[Appendix B:](#) A list of typographical conventions.

[Index:](#) Alphanumeric listing of all topics and subjects of importance.

## 1.2 History of this Document

Release Date	Document Number	Version	Summary
April 2017	AP/WGS 101.001	10.1.0.1	Initial release.
February 2019	AP/WGS 101.003	10.1.1.0	Added install information for Nastel Navigator's Scheduler. Update license information in section 2.2.1.

## 1.3 Related Documents

Complete listings of related and referenced documents related to AutoPilot can be found in [Appendix A](#).

## 1.4 Release Notes

See the **README.htm** files on your installation media or Workgroup Server Expert installation directory. Release notes and updates are also available through the Nastel Resource Center at: <http://customers.nastel.com>.

## 1.5 Intended Audience

This document is intended for personnel installing, configuring, and using Workgroup Server Expert.

### 1.5.1 User Feedback

Nastel encourages all users of Workgroup Server Expert to submit comments, suggestions, corrections, and recommendations for improvement of this documentation. Please send comments via email to: [support@nastel.com](mailto:support@nastel.com). You will receive a response, along with status of any proposed change, update, or correction.

## 1.6 Technical Support

If you need additional technical support, you can contact Nastel by telephone or by email. To contact Nastel technical support by telephone, call **800-963-9822 ext. 1**. If you are calling from outside the United States, dial **001-516-801-2100**.

To contact Nastel technical support by email, send a message to [support@nastel.com](mailto:support@nastel.com). You can also contact Nastel support via the support website. To access online web-based Nastel automated support system (user ID/Password required), go to: <http://support.nastel.com/>.

## 1.7 Conventions

Refer to [Appendix B](#) for typographical and naming conventions used in this guide.

## 1.8 AutoPilot M6 for WMQ Installation Support (32-bit/64-bit)

See [Figure 1-1](#) for AutoPilot M6 for WMQ Installation Support. This platform is for the Workgroup server and databases supported. Agents may be available for other versions of operating systems and WMQ versions. You should contact their support representatives if your platform is not listed.

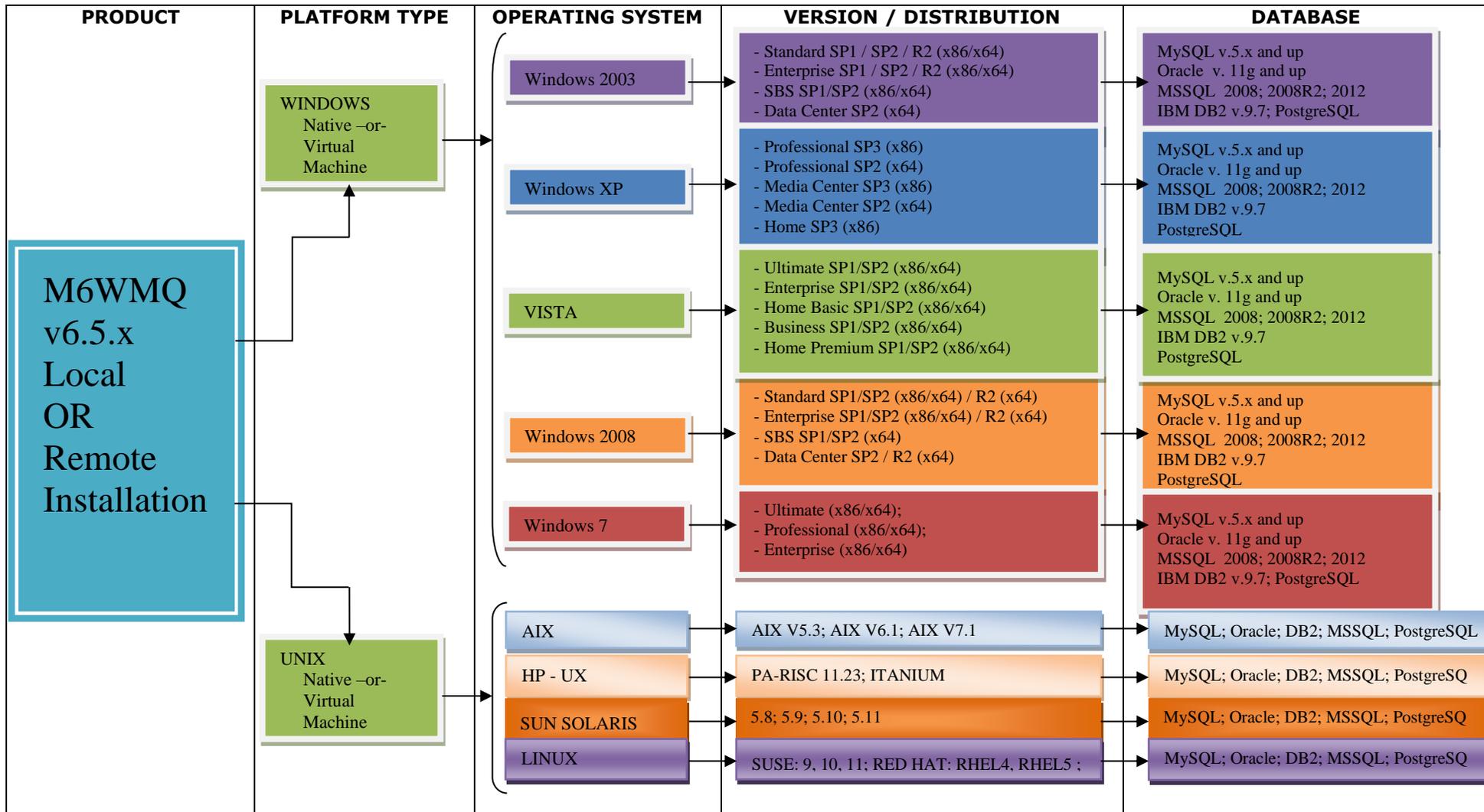


Figure 1-1. AutoPilot M6 for WMQ Installation Support (32-bit/64-bit)

\* Not supported for Web Security Manager or APODWMQ.

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## Chapter 2: Before Installation

This chapter contains general information relate to the preparation for and installation of the Workgroup Server Expert. Refer to the file `README_INSTALL.txt` on the installation media for pertinent information.

### 2.1 Workgroup Server Expert Installation Materials

The Workgroup Server Expert is installed from either installation media or from <http://support.nastel.com/ap/> (credentials required).

### 2.2 Workgroup Server Expert License

Before you start, you need to obtain a CPU-based license file and install it on each system on which a workgroup server will run. The CPU count is pre-allocated and subject to change. Contact your sales manager for further information pertaining to trial license properties.

A workgroup server license is a digitally-signed text file that contains identification and license entitlement information for your Workgroup Server Expert installation. Each time the workgroup server is started, it checks the license file for your licensing and configuration information.

To obtain a license file:

1. Navigate to **Start > Programs > Nastel AutoPilot M6 for WMQ > Request License** or go directly to [http://www.nastel.com/purchase-software\\_481\\_51.html](http://www.nastel.com/purchase-software_481_51.html).
2. Follow the procedure indicated to receive a license file(s). The license files must be installed. Refer to [section 2.2.1](#), Installing the Workgroup Server Expert License File.



#### NOTE

1. The workgroup server will not run without a correctly configured license file.
2. A new license is required for Version 10.1.0.1 and above. It is required for users of APODWMQ and users running agents on z/OS.

#### 2.2.1 Installing the Workgroup Server Expert License File

When you receive your license file, back it up in a safe place in case you ever need to reinstall Workgroup Server Expert. For the system that will run the workgroup server identified in the license file, we recommend you copy the license file to the directory:

```
[AUTOPILOT\WMQ]\config\groups
```

where:

[AUTOPILOT\WMQ] is the directory path where M6-WMQ is installed.

After the Workgroup Server Expert is installed, you must enter the full path location name of the license file in the expert's properties dialog box. (See [Figure 4-2](#), *WGS Properties – General Tab*.)



#### NOTE:

The name of the license file must be `AutoPilotWMQ_xyz.lic`, where `xyz` is the name of the workgroup.

You can check the license file information by starting your workgroup server expert and checking the AutoPilot logs (\$AUTOPILOT\_HOME\logs\log4j\<\$MACHINE\_NAME>.log4j).

The workgroup server will return the licensing information, similar to the following example:

```
LICENSING INFORMATION:
  SOURCE(C:\Program Files\nastel\apwmq\config\groups\AutoPilotWMQ_MQM.lic)
  WORKGROUP(MQM)
  FEATURES(SQLDB)
  WORKGROUP_HOSTS(host)
  CPU_COUNT(14)
  USER_COUNT(10)
  AGENTLESS_CONNECTION_COUNT(250)
  EXPIRATION_DATE(Fri Jun 10 00.00.00 2016)
```

where:

**SOURCE** is the full path location name of the license file

**WORKGROUP\_HOSTS** is a list of network hosts that the workgroup server is licensed to run on.

**FEATURES** is a list of licensable features that the workgroup server is authorized to use.

**CPU\_COUNT** is the maximum number of system processors that can be simultaneously managed by a single workgroup server.

**USER\_COUNT** is the maximum number of client users that can simultaneously connect to a single workgroup server via the M6-WMQ Explorer, Message Server, and/or AutoPilot M6.

**AGENTLESS\_CONNECTION\_COUNT** is the maximum number of concurrent Queue Manager connections allowed by Connection Manager.

**EXPIRATION\_DATE** is the date on which the license expires and a new license will have to be obtained.

# Chapter 3: Installation

This chapter provides installation requirements and instructions.

## 3.1 Components

The WGS\_10.1.1.0.pkg file contains the following components:

- lib\wgsexpert.jar
- lib\nsqjdbcmk.jar
- sql\scripts\nsqjdbcmk\{various sql scripts}.sql.

## 3.2 Installation Requirements

In order to install the product, the following pre-requisite product must be installed:

- AutoPilot M6 CEP Server.

### 3.2.1 Hardware Requirements

#### Minimum:

- 1 GHz or higher CPU
- 2 G RAM
- 1 G free disk space

#### Recommended:

- 2 CPUs 8 core each
- 8 G RAM
- 10 G free disk space

### 3.2.2 Database Management

	<b>NOTE:</b>	SQL database should be highly available.
---	--------------	--

Without a database connection, the workgroup server will continue limited monitoring, but will not allow configuration. It will still report any messages generated by WMQ, but the messages will not be logged to the database and will not have an event number. The events included are:

- Queue manager start/stop
- Performance
- Channel
- Command

Alter- and discovery-related events will not be reported.

#### Supported Databases

If utilizing an SQL-based database server, Workgroup Sever Expert supports the databases in [Figure 1-1](#).

## 3.3 Installation

To install Workgroup Server Expert, do the following:

1. Copy the package file to <APHOME>/updates .
2. Stop the CEP Server instance and other AutoPilot M6 services on the server.
3. Run package manager to install the pre-requisites and the expert.

For example:

```
<APHOME>/bin/pkgman <APHOME>/updates/WGS_<version>.pkg
```

4. Restart the CEP Server instance and other AutoPilot M6 services on the server.

# Chapter 4: Deploying the Expert

	<p><b>NOTE:</b> Only one instance of the Workgroup Server Expert can be deployed to a CEP Server. If you want to run two instances of the Workgroup Server Expert, then you need to run two different instances of the AutoPilot CEP Server, each with one instance of Workgroup Server Expert.</p>
---	---

1. Start the AutoPilot Enterprise Manager.
2. Right-click the server and select **Deploy Expert > WGS > Workgroup Server Expert**.

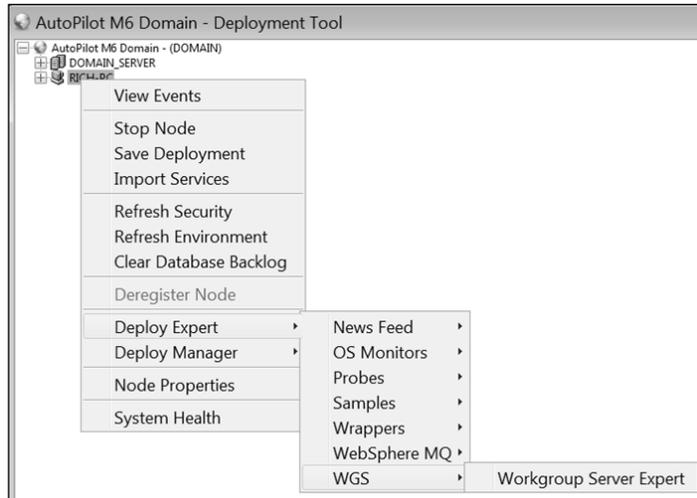


Figure 4-1. Deploy Expert Menu

3. The *Create Workgroup Server Expert – General* dialog box is displayed. Edit properties described in the table below, as required.

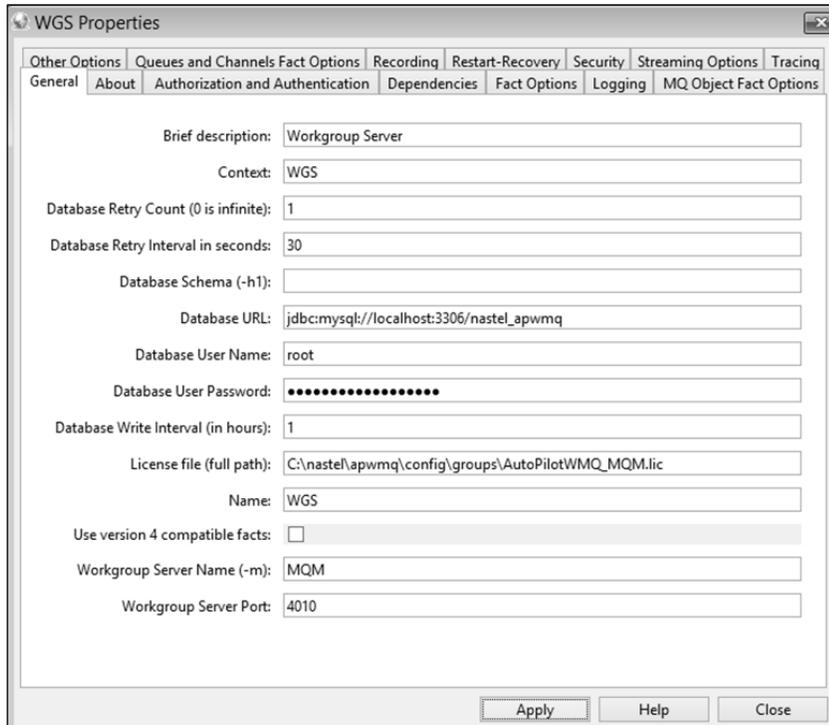


Figure 4-2. Create Workgroup Server Expert – General Tab

4. Enter data per Table 4-1.

Table 4-1. WGS Expert Properties – General	
Property	Description
Brief description	Description of the expert
Context	Context name of the expert within the CEP tree
Database Retry Count (0 is infinite)	The number of times the expert tries to connect to the database at startup to load the data. A value of 0 means the expert will keep trying to connect to the database.
Database Retry Interval in seconds	The number of seconds to wait before attempting to connect to the database after an error at startup.
Database Schema (-h1)	Schema name of the WGS database, if one exists.
Database URL	JDBC connection URL for the WGS database
Database User Name	WGS database username
Database User Password	WGS database user password
Database Write Interval (in hours)	How often the runtime data is written to the WGS database in hours. Will also be written to database at shutdown.
License file (full path)	License file for the WGS Expert ( <b>must be full path</b> )
Name	Name of this instance
Use version 4 compatible facts	Indicates if you want version 4 or version 6 compatible fact names/values.
Workgroup Server Name (-m)	Name of the workgroup server instance that must also be in your license file.
Workgroup Server Port	The default is port 4010. Change as required.

5. Select the *About* tab. These properties are for information only and cannot be edited.



Figure 4-3. Create Workgroup Server Expert – About Tab

Table 4-2. WGS Expert Properties – About	
Property	Description
Package Title	Implementation title of the source package.
Package vendor	Name of implementation vendor.
Package version	Package version as assigned by the vendor.

- Select the *Authorization and Authentication* tab. Edit properties described in the table below, as required.

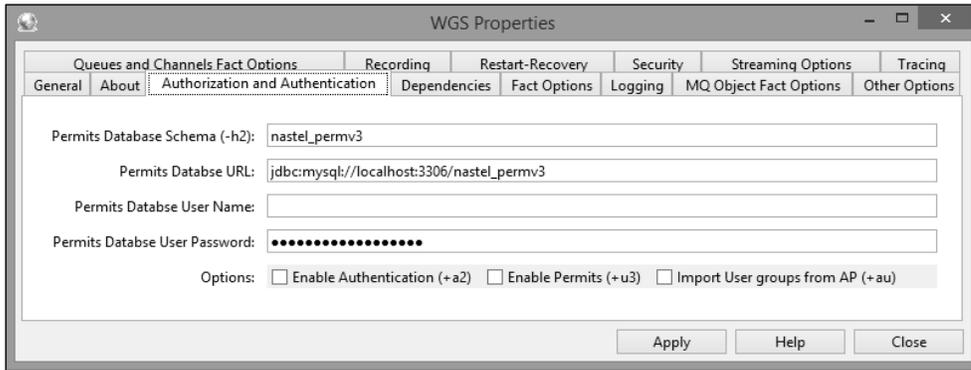


Figure 4-4. Create Workgroup Server Expert – Authorization and Authentication Tab

<b>Property</b>	<b>Description</b>
Permits Database Schema (-h2)	Schema name of the Permits database, if one exists.
Permits Database URL	JDBC URL of the Permits database.
Permits Database User Name	Permits database user name.
Permits Database User Password	Permits database user password.
Options	Select one as described below:
Enable Authentication (+a2)	Enable user authentication through AutoPilot M6.
Enable Permits (+u3)	Enable Permits Version 3.
Import user groups from AP (+au)	Enable user authentication through AutoPilot M6 and import Permits.

7. Select the *MQ Object Fact Options* tab. Edit properties described in the table below, as required.

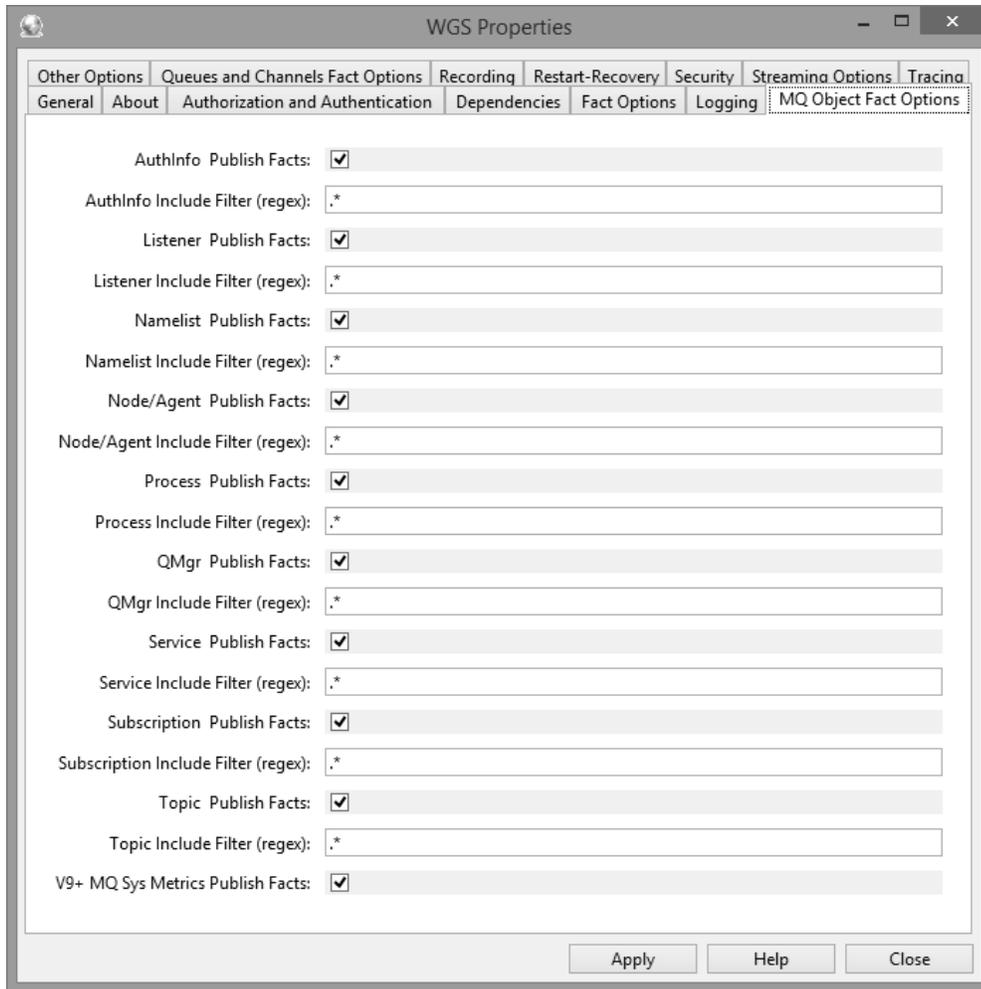


Figure 4-5. Create Workgroup Server Expert – MQ Object Fact Options Tab

Table 4-4. WGS Expert Properties – MQ Object Fact Options	
Property	Description
AuthInfo Publish Facts	Enable publishing of AuthInfo facts
AuthInfo Include Filter (regexp)	Regex expression of what AuthInfos to publish
Listener Publish Facts	Enable publishing of Listener facts
Listener Include Filter (regexp)	Regex expression of what Listeners to publish
Namelist Publish Facts	Enable publishing of Namelist facts
Namelist Include Filter (regexp)	Regex expression of what Namelists to publish
Node/Agent Publish Facts	Enable publishing of Node/Agent facts
Node/Agent Include Filter (regex)	Regex expression of what Node/Agent to publish
Process Publish Facts	Enable publishing of Process facts
Process Include Filter (regexp)	Regex expression of what Processes to publish
QMgr Publish Facts	Enable publishing of Queue Manager facts
QMgr Include Filter (regexp)	Regex expression of what Queue Manager to publish
Service Publish Facts	Enable publishing of Service facts

**Table 4-4. WGS Expert Properties – MQ Object Fact Options**

<b>Property</b>	<b>Description</b>
Service Include Filter (regex)	Regex expression of what Services to publish
Subscription Publish Facts	Enable publishing of Subscription facts
Subscription Include Filter (regex)	Regex expression of what Subscriptions to publish
Topic Publish Facts	Enable publishing of Topic facts
Topic Include Filter (regex)	Regex expression of what Topics to publish
V9+ MQ Sys Metrics Publish Facts	Enable publishing of MQ V9 system metrics

- Select the *Queues and Channels Fact Options* tab. Edit properties described in the table below, as required.

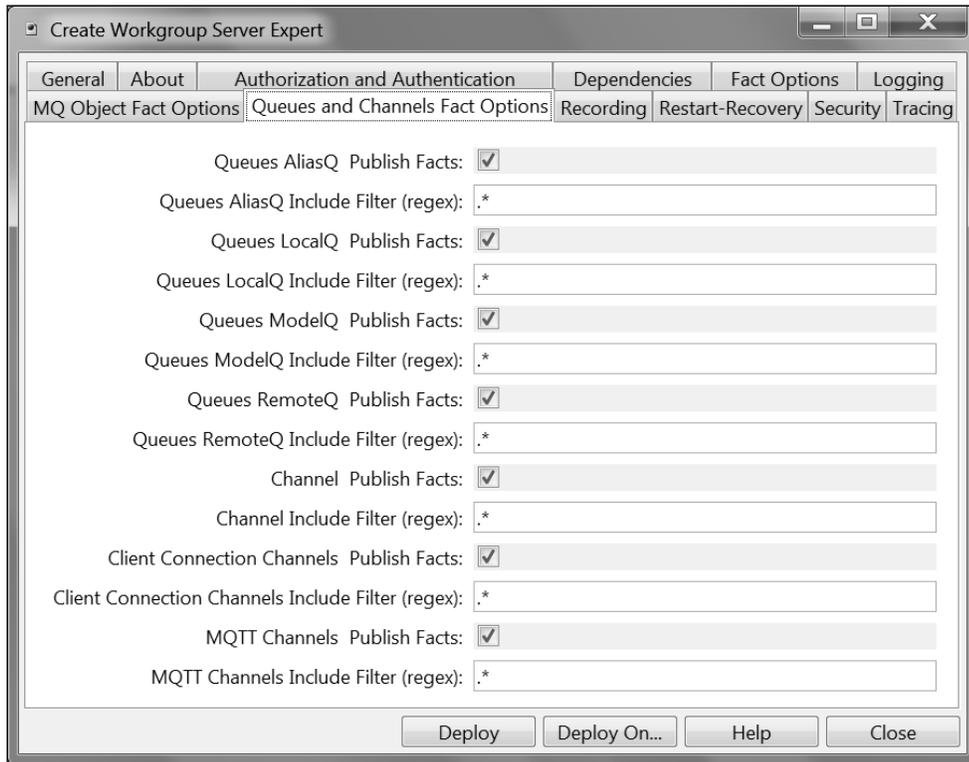


Figure 4-6. Create Workgroup Server Expert – Queues and Channels Fact Options Tab

Table 4-5. WGS Expert Properties – Queues and Channels Fact Options	
Property	Description
Queues AliasQ Publish Facts	Enable publishing of AliasQ facts
Queues AliasQ Include Filter (regexp)	Regex expression of what AliasQs to publish
Queues LocalQ Publish Facts	Enable publishing of LocalQ facts
Queues LocalQ Include Filter (regexp)	Regex expression of what LocalsQs to publish
Queues ModelQ Publish Facts	Enable publishing of ModelQ facts
Queues ModelQ Include Filter (regexp)	Regex expression of what ModelQs to publish
Queues RemoteQ Publish Facts	Enable publishing of RemoteQ facts
Queues RemoteQ Include Filter (regexp)	Regex expression of what RemoteQs to publish
Channel Publish Facts	Enable publishing of Channel facts
Channel Include Filter (regexp)	Regex expression of what Channels to publish
Client Connection Channel Publish Facts	Enable publishing of Client Connection facts
Client Connection Channel Include Filter (regexp)	Regex expression of what Client Connections to publish
MQTT Channels Publish Facts	Enable publishing of MQTT facts
MQTT Channel Include Filter (regexp)	Regex expression of what MQTTs to publish

9. Select the *Tracing* tab. Edit properties described in the table below, as required.

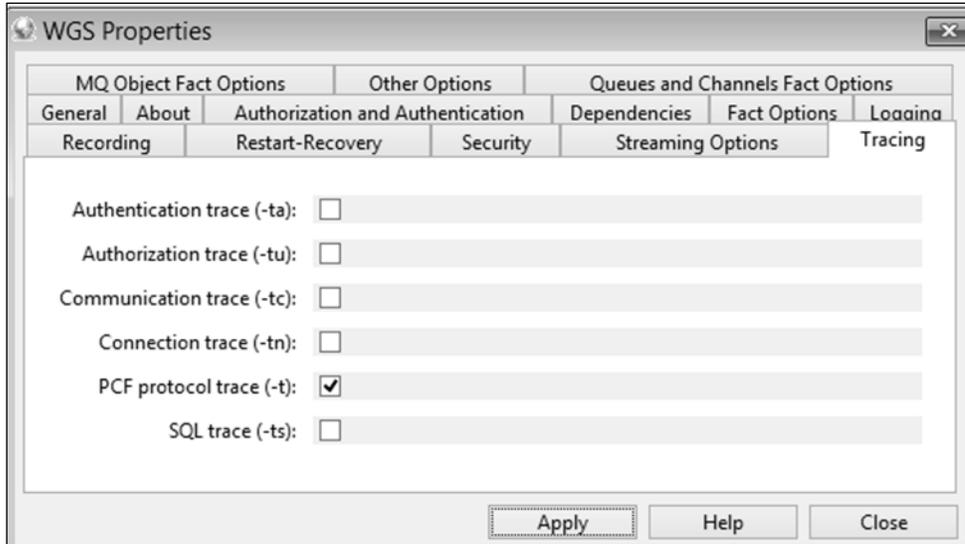


Figure 4-7. Create Workgroup Server Expert – Tracing Tab

Table 4-6. WGS Expert Properties – Tracing	
Property	Description
Authentication trace (-ta)	Enable/disable authentication trace.
Authorization trace (-tu)	Enable/disable authorization trace.
Communication trace (-tc)	Enable/disable communication trace.
Connection trace (-tn)	Enable/disable connection trace.
PCF protocol trace (-t)	Enable/disable PCF protocol trace.
SQL trace (-ts)	Enable/disable SQL trace.

10. Click **Deploy**. A confirmation dialog box opens. Click **Yes** to apply and **No** to cancel.

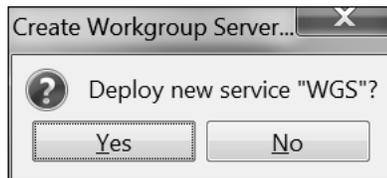


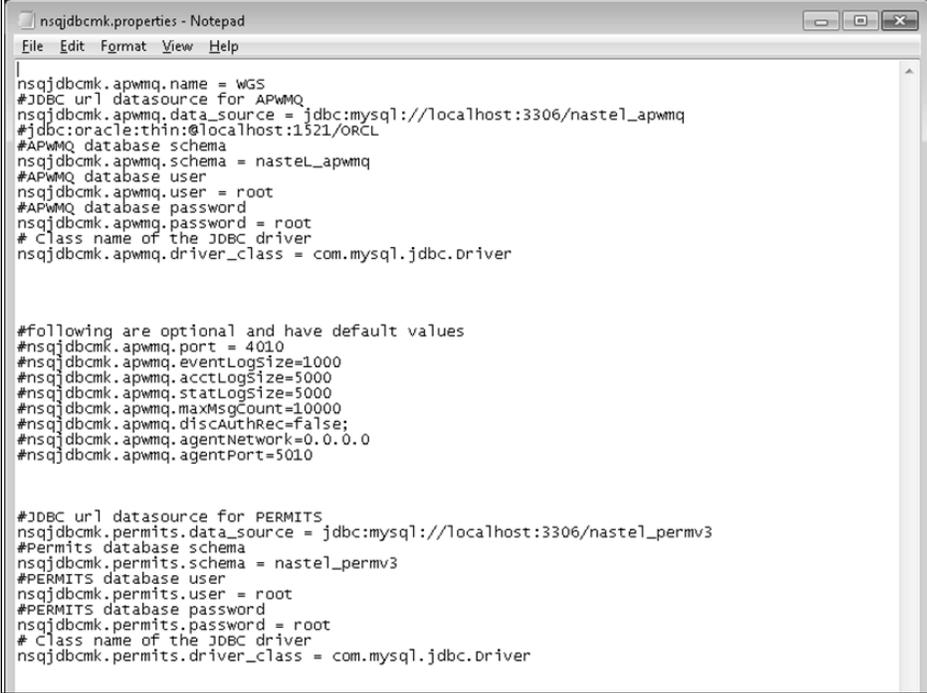
Figure 4-8. Deployment Confirmation

	<p><b>NOTE:</b></p>	<p>The following AutoPilot tabs are not used to configure the Workgroup Server Expert:</p> <ul style="list-style-type: none"> <li>• Dependencies</li> <li>• Fact Options</li> <li>• Logging</li> <li>• Recording</li> <li>• Restart-Recovery</li> <li>• Security</li> <li>• Streaming.</li> </ul>
---	---------------------	---

# Chapter 5: Database Configuration

Installing the WGS package will install the new database utility **nsqjdbcmk** which can be found under **AUTOPILOT\_HOME/sql-scripts/nsqjdbcmk**. This utility is used to create and upgrade M6-WMQ database objects, create and upgrade Permits database objects, define additional workgroups in the M6-WMQ database, and add default M6-WMQ records.

To run the new utility, you will run the **nsqjdbcmk.bat** script file, but first you will want to open the **nsqjdbcmk.properties** file, shown below, and configure it. All the fields have a brief description.



```

nsqjdbcmk.apwmq.name = WGS
#JDBC url datasource for APWMQ
nsqjdbcmk.apwmq.data_source = jdbc:mysql://localhost:3306/nastel_apwmq
#jdbc:oracle:thin:@localhost:1521/ORCL
#APWMQ database schema
nsqjdbcmk.apwmq.schema = nastel_apwmq
#APWMQ database user
nsqjdbcmk.apwmq.user = root
#APWMQ database password
nsqjdbcmk.apwmq.password = root
# Class name of the JDBC driver
nsqjdbcmk.apwmq.driver_class = com.mysql.jdbc.Driver

#following are optional and have default values
#nsqjdbcmk.apwmq.port = 4010
#nsqjdbcmk.apwmq.eventLogSize=1000
#nsqjdbcmk.apwmq.acctLogSize=5000
#nsqjdbcmk.apwmq.statLogSize=5000
#nsqjdbcmk.apwmq.maxMsgCount=10000
#nsqjdbcmk.apwmq.discAuthRec=false;
#nsqjdbcmk.apwmq.agentNetwork=0.0.0.0
#nsqjdbcmk.apwmq.agentPort=5010

#JDBC url datasource for PERMITS
nsqjdbcmk.permits.data_source = jdbc:mysql://localhost:3306/nastel_permv3
#Permits database schema
nsqjdbcmk.permits.schema = nastel_permv3
#PERMITS database user
nsqjdbcmk.permits.user = root
#PERMITS database password
nsqjdbcmk.permits.password = root
# Class name of the JDBC driver
nsqjdbcmk.permits.driver_class = com.mysql.jdbc.Driver
  
```

Figure 5-1. *nsqjdbcmk Properties*

The section under **#JDBC url datasource for PERMITS** is used only if you will be using PermitsV3.

The optional values under **#following are optional and have default values** can be overridden if you remote the preceding # per line you want changed. For example, if you want a different default port you would change:

**#nsqjdbcmk.apwmq.port = 4010**

to

**nsqjdbcmk.apwmq.port = 4011**

Once you save your changes to **nsqjdbcmk.properties**, you can run **nsqjdbcmk.bat** by changing the directory to **\$AUTOPILOT\_HOME/sql-scripts/nsqjdbcmk** then running **nsqjdbcmk.bat** on the command prompt. You will see the previous **nsqsqlmk** options:

NASTEL DATABASE DEFINITIONS

=====

1. Create M6-WMQ Database Objects
2. Upgrade M6-WMQ Database Objects
3. Create PERMITS Database Objects
4. Upgrade PERMITS Database Objects
5. Define additional workgroups in M6-WMQ Database
6. Add default M6-WMQ records, NOT to be used with option 1  
(When creating the M6-WMQ tables manually, this is needed)
10. Quit

Please select the option: \_\_\_\_\_

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## Chapter 6: Scheduler Setup

The following steps are not required. Only perform the below if you plan on utilizing Nastel Navigator Scheduler, as this is an optional feature.

### 6.1 Requirements

- **AP60\_SU28.6.pkg**, available on the FTP site.
- Java 1.8, please note that WGS10 only requires Java 1.7, but Scheduler requires Java 1.8.
- MySQL

**NOTE**

WGS10 uses Scheduler if installed, but Scheduler does not require WGS10 (both packages are standalone).

### 6.2 Installation Steps

1. Install **JOB\_SCHEDULER-0.1.9.pkg**. This package can be found on the FTP site.
2. Run the following two SQL files found within the directory, `AutoPilotM6/scheduler/config/db`. Currently only MySQL is supported. Run these files from the command client or MySQL Admin tool.
  - a. **ap-sched-mysql.sql**
  - b. **quartz\_mysql.sql**
3. Confirm that the following two properties are not commented out within the **global.properties** file located in `/nastel/AutoPilotM6`:
  - a. `property tnt4j.config={autopilot.home}tnt4j.properties`
  - b. `property tnt4j.token.repository={autopilot.home}tnt4j-tokens.properties`
4. Deploy an instance of JobScheduler Expert to the same node where WGS10 expert will run.

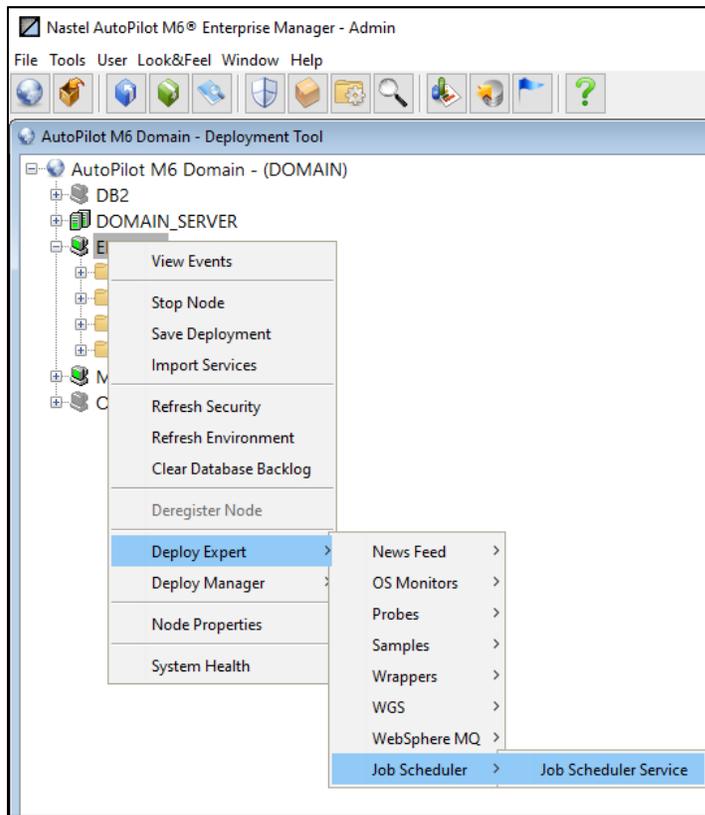


Figure 6-1. Deploy Expert Menu

- a. Configure Database property page to the database where you ran the scripts
  - b. JDBC Driver: com.mysql.jdbc.Driver
  - c. Make sure not to leave spaces when copying DB information into DB fields, for example, JDBC Driver, user ID, password or DB URL.
5. Restart CEP Server
  6. Start Scheduler Expert
  7. Start WGS10 Expert

## Appendix A: References

This appendix contains a list of reference material and documents relevant to M6-WMQ.

### A.1 Nastel Documentation

Document Number (or higher)	Title
M6WMQ-ADM 658.001	<i>AutoPilot M6 for WebSphere MQ Administrator's Guide</i>
M6WMQ-INS 658.001	<i>AutoPilot M6 for WebSphere MQ Installation Guide</i>
M6WMQ/SM 656.001	<i>AutoPilot On-Demand for WebSphere MQ Security Manager User's Guide</i>
M6WMQ/WMM 658.001	<i>AutoPilot On-Demand for WebSphere MQ User's Guide</i>
M6/WMQ 600.002	<i>AutoPilot M6 Plug-in for WebSphere MQ</i>
APM6/INS 622.001	<i>AutoPilot M6 Installation Guide</i>
APM6/USR 624.001	<i>AutoPilot M6 User's Guide</i>

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# Appendix B: Conventions

## B.1 Typographical Conventions

Table B-1. Typographical Conventions	
Convention	Description
<a href="#">Blue/Underlined</a>	Used to identify links to referenced material or websites. Example: <a href="mailto:support@nastel.com">support@nastel.com</a>
<b>Bold Print</b>	Used to identify topical headings, glossary entries, and toggles or buttons used in procedural steps. Example: Click <b>EXIT</b> .
<i>Italic Print:</i>	Used to place emphasis on titles, menus, screen names, or other categories.
<b>Monospaced Bold</b>	Used to identify keystrokes/data entries, file names, directory names, etc.
<i>Monospaced Italic</i>	Used to identify variables in an address location. Example: [ <i>AUTOPILOT_HOME</i> ]\documents. Where the portion of the address in the brackets [ ] is variable.
Monospaced Text	Used to identify addresses, commands, script etc.
Normal Text	Typically used for general text throughout the document.
Table Text	Table text is generally a smaller size to conserve space. 10, 9, and 8 point type is used in tables throughout AutoPilot M6 product family of documents.

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