# Unit 5: Global Catalog and Flexible Single Master Operations (FSMO) Roles

## Course Objectives Covered by this Unit

- Configure Active Directory.
- Explain intrasite and intersite replication between the Windows Server 2008 machines.
- Configure Universal Group Membership Caching
- Transfer and seize FSMO roles.

## Unit Learning Outcomes

- Explain the functions of a Global Catalog Server
- Explain the FSMO Roles
- Plan FSMO Role Holders
- Maintain FSMO Roles
- Determine the necessary information for the development of an FSMO/GC implementation plan.
- Determine the best tools for determining FSMO roles.
- Develop a plan for the failure of a role holder.

## Key Concepts

- The Global Catalog
- Understanding FSMO Roles
- Configuring FSMO Roles
- Transferring/Seizing FSMO Roles

## Reading

Windows Server 2008 Active Directory Configuration MOAC 70-640
- Lesson 4 Global Catalog and Flexible Single Master Operations (FSMO) Roles

## Keywords

Use the following keywords to search for additional materials to support your work:
- Domain Naming Master
- Primary Domain Controller (PDC) Emulator
- Relative Identifier (RID)
- Universal Group Membership Caching
- Security Identifier (SID)

# Homework

**Unit 5. Assignment 1. AD Design Scenario: FSMO Role & GC Placement**

*Course Objectives and Learning Outcomes*

In this assignment, you will determine the necessary information for the development of an FSMO/GC implementation plan.

*Assignment Requirements*

- Review the scenario below:

You are an IT consultant for a newly forming company and have been asked to design an Active Directory Forest implementation. Your immediate task is to designate where the FSMO Roles and Global Catalog Servers will be placed in the new environment. Develop a list of 5 to 10 questions you will need answered in order to determine the most appropriate locations for the FSMO Role Holders and GCs.

- Consider what information you would need to develop an FSMO/GC implementation plan for a new AD Forest.

*Submission Requirements*

- 1-2 pages, Microsoft Word, double-spaced, 12 pt. font

**Unit 5. Exercise 1. AD FSMO Role Management Research: Alternate Methods**

*Course Objectives and Learning Outcomes*

In this Exercise, you will determine the best tools for determining FSMO roles and develop a plan for the failure of a role holder.

*Assignment Requirements*

● Review to the following scenario:

A junior IT administrator has been tasked with documenting current FSMO Role Holders and GC Servers, as well as documenting procedures for responding to FSMO Role unavailability and sends the following email:

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To: IT Admin

I need to determine which DCs currently hold which roles and
determine which DCs are Global Catalog Servers. I also need to
develop a plan for failure of a role holder. I know there are
multiple ways to accomplish this task but I'm not sure the best tools
for any given scenario? Would you use ntdsutil or MMC Snap-ins? What
about dcdiag? Any advice or suggestions would be appreciated!

Junior Admin
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● Respond with practical steps and/or a recommended approach to the problem.

*Submission Requirements*
● 1-2 pages, Microsoft Word, double-spaced, 12 pt. font

# Labs

**Unit 5. Lab 1. Global Catalog and Flexible Single Master Operations (FSMO) Roles**

*Course Objectives and Learning Outcomes*

- In this lab, you will plan FSMO role holders.
- See the *Lab Manual* for set up, procedures, and deliverables.

*Lab Requirements*

- Perform *Lab 5: Global Catalog and Flexible Single Master Operations (FSMO) Roles* starting on page 182 of the *Lab Manual*.

*Submission Requirements*

- A Word document containing screen captures of your work throughout the lab.
- Answers to any questions asked in the lab.

# Reminders

Read the following in order to prepare for the next unit:
- Windows Server 2008 Active Directory Configuration MOAC 70-640
  - Lesson 5 Active Directory Administration

The following assignments are due in the next class session:
- Unit 5. Assignment 1. AD Design Scenario: FSMO Role & GC Placement
- Unit 5. Exercise 1. AD FSMO Role Management Research: Alternate Methods
- Unit 5. Lab 1. Global Catalog and Flexible Single Master Operations (FSMO) Roles