Oracle Communications Services Gatekeeper 5 Essentials Certified Implementation Specialist Exam Study Guide
Getting Started

The Oracle Communications Services Gatekeeper 5 Essentials Certified Implementation Specialist Exam Study Guide is designed to help you prepare for the Oracle Communications Services Gatekeeper 5 Essentials Exam (1Z1-564).

Earning this certification helps OPN members differentiate in the marketplace through proven in-depth expertise, and helps their partner company qualify for the Oracle Communications Service Delivery Platform 5.

Target Audience

The Oracle Communications Services Gatekeeper 5 Essentials Certified Implementation Specialist exam audience defines the type of participants who are likely to pass the exam and targets individuals with a specific level of education and expertise:

*Job Role:*
- Application Developers
- Solution Architects

*Level of Competency:*
- Familiarity with Web Services and Oracle WebLogic Server
- Familiarity with telecom network architecture and network protocols
- Familiarity with Java
Exam Topics

The Oracle Communications Services Gatekeeper 5 Certified Implementation Specialist exam covers nineteen topics:

- Oracle Communications Services Gatekeeper Overview
- Architecture
- Partner Relationship Management
- Service Level Agreements
- Policy Enforcement
- EDRs, CDRs, and Alarms
- Platform Development Studio
- Installing, Configuring and Managing
- Communication and Container Services
- Configuring and Managing Services Gatekeeper
- Container Services
- Communication Services
- Accounts, Groups, and SLAs
- Platform Test Environment
- Troubleshooting
- Use Cases for Extending Services Gatekeeper
- Introduction To Eclipse and the Services Gatekeeper Plugin
- Interceptor Development
- Extending Services Gatekeeper
Levels of Knowledge

Each exam topic contains objectives and each objective is categorized by learner or practitioner level of knowledge.

**Learner** items test foundational grasp and require product comprehension (not recognition or memorization).

Example:

“When setting up price list modifiers in Advanced Pricing, which three steps must be completed in order to successfully activate surcharge and price break features?”

**Practitioner** items present on-the-job scenarios and require the ability to: integrate and apply knowledge in new contexts, analyze and troubleshoot complex issues, and solve problems.

Example:

1) “You are creating price list modifiers in Advanced Pricing. Your customer has three requirements: X, Y, Z. Identify the two steps that must be completed in order to meet those requirements.

2) “You are running a two-instance database with six redo logs defined. You decide to add a third thread to support a third database instance, on the third node of the cluster.

Using command line administration, which two commands will you execute to achieve this?

Training Options

Throughout the study guide each exam topic recommends one or several training formats:

- **OPN Boot Camps**
- **Online Training**
- **Oracle University Training**

While the Oracle Partner Network facilitates free access to online training, in class trainings often require a fee.
Exam Details per Topic

This section covers details associated to all exam topics such as: exam topics overview, objectives, levels of knowledge, recommended trainings and sample questions. Specialization exams include all application functionalities not only the most frequently used ones.

**Topic 1: Oracle Communications Services Gatekeeper Overview**

**Objective**

- Describe how Oracle Communications Services Gatekeeper exposes network capabilities to applications  
  **Level**: Learner

- List Services Gatekeeper features and solutions  
  **Level**: Learner

**Recommended Training**

**Online Training**

- Oracle Communications Services Gatekeeper 5 PreSales Specialist Guided Learning Path
- Oracle Communications Services Gatekeeper 5 Implementation Specialist Guided Learning Path

**Oracle University Training**

- Oracle Communications Services Gatekeeper 5.x Fundamentals – Oracle University

**OPN Boot Camps**

- Oracle Communications Services Gatekeeper Implementation Boot Camp

**Sample Questions**

Which two benefits does the Parlay X interfaces provide?

A. High-level programming abstraction  
B. Ease of management  
C. Open standards  
D. Tight integration with network capabilities
Topic 2: Architecture

Objective

- Describe Services Gatekeeper architecture
- Describe the function of communication and container services and how they are deployed
- Describe traffic flow
- Describe Services Gatekeeper failover scenarios
- Describe general geographic redundancy architecture and requirements
- Correctly recommend the right component for a SIP application

Level

Learner

Recommended Training

Online Training

- Oracle Communications Services Gatekeeper 5 PreSales Specialist Guided Learning Path
- Oracle Communications Services Gatekeeper 5 Implementation Specialist Guided Learning Path

Oracle University Training

- Oracle Communications Services Gatekeeper 5.x Fundamentals – Oracle University

OPN Boot Camps

- Oracle Communications Services Gatekeeper Implementation Boot Camp

Sample Questions

Which is the function of the access tier?

A. Enforcing policy rules
B. Enabling interactions with applications
C. Protecting the network from overload
Topic 3: Partner Relationship Management

Objective

- Describe the purpose of the Partner Relationship Management Interface
- Describe the specific security details for the Partner Relationship Management Interface

Level

- Learner
- Practitioner

Recommended Training

Online Training

- Oracle Communications Services Gatekeeper 5 PreSales Specialist Guided Learning Path
- Oracle Communications Services Gatekeeper 5 Implementation Specialist Guided Learning Path

Oracle University Training

- Oracle Communications Services Gatekeeper 5.x Fundamentals – Oracle University

OPN Boot Camps

- Oracle Communications Services Gatekeeper Implementation Boot Camp

Sample Questions

Which three tasks can be performed through the Partner Relationship Management (PRM) Operator interface?

A. Create a service provider group
B. Shut down a managed server
C. Delete an application account
D. Configure JMS
E. Approve a request for a service provider account
Topic 4: Service Level Agreements

Objective

- Identify the SLAs used by Services Gatekeeper
- Describe the specific function of each SLA
- Describe the policies that each SLA defines
- Describe the types of accounts and groups used by Services Gatekeeper
- Explain the account, group, and SLA hierarchy

Level

Learner

Recommended Training

Online Training

- Oracle Communications Services Gatekeeper 5 PreSales Specialist Guided Learning Path
- Oracle Communications Services Gatekeeper 5 Implementation Specialist Guided Learning Path

Oracle University Training

- Oracle Communications Services Gatekeeper 5.x Fundamentals – Oracle University

OPN Boot Camps

- Oracle Communications Services Gatekeeper Implementation Boot Camp

Sample Questions

In which two types of SLAs is the Node ID important?

A. Service provider group node SLA
B. Service provider group SLA
C. Application group SLA
D. Global node SLA
Topic 5: Policy Enforcement

Objective

- Describe how the Oracle Communications Services Gatekeeper interceptors control the request workflow and enforce policy rules
- Invoke interceptors
- Use interceptors to customize request workflow

Level

- Learner

Learner

Recommended Training

Online Training

- Oracle Communications Services Gatekeeper 5 PreSales Specialist Guided Learning Path
- Oracle Communications Services Gatekeeper 5 Implementation Specialist Guided Learning Path

Oracle University Training

- Oracle Communications Services Gatekeeper 5.x Fundamentals – Oracle University

OPN Boot Camps

- Oracle Communications Services Gatekeeper Implementation Boot Camp

Sample Questions

Which statement is true about when Services Gatekeeper sends requests to the interceptor stack?

A. Communication service requests are sent to the interceptor stack only if the communication service is registered with the interceptor stack

B. Communication service requests are sent to the interceptor stack only if the INTERCEPT header field is set on the request

C. All communication service requests are sent to the interceptor stack
Topic 6: EDRs, CDRs, and Alarms

Objective

- Explain how EDRs, CDRs, and alarms are generated and categorized
- Describe EDR listeners and how you can use them to integrate Oracle Communications Services Gatekeeper with external business operations applications
- Describe different ways to access the EDRs, CDRs, and Alarms

Level

Learner

Recommended Training

Online Training

- Oracle Communications Services Gatekeeper 5 PreSales Specialist Guided Learning Path
- Oracle Communications Services Gatekeeper 5 Implementation Specialist Guided Learning Path

Oracle University Training

- Oracle Communications Services Gatekeeper 5.x Fundamentals – Oracle University

OPN Boot Camps

- Oracle Communications Services Gatekeeper Implementation Boot Camp

Sample Questions

EDRs are automatically generated within the plug-in execution flow. At which three of the following situations are EDRs automatically generated:

A. When designated Java methods are called
B. When there are exceptions
C. At plug-in boundaries
D. When traffic counters reach specified values
Topic 7: Platform Development Studio

Objective

- Describe the tools available in the Platform Development Studio
- Describe the features of the Platform Test Environment
- Describe the Oracle Communications Services Gatekeeper extensible components
- Use the Eclipse Wizard

Level

Learner

Recommended Training

Online Training

- Oracle Communications Services Gatekeeper 5 PreSales Specialist Guided Learning Path
- Oracle Communications Services Gatekeeper 5 Implementation Specialist Guided Learning Path

Oracle University Training

- Oracle Communications Services Gatekeeper 5.x Fundamentals – Oracle University

OPN Boot Camps

- Oracle Communications Services Gatekeeper Implementation Boot Camp

Sample Questions

Which three functionalities is the Services Gatekeeper Platform Test Environment useful for?

A. Editing Service Level Agreements (SLAs)
B. Serving as a unit test framework
C. Browsing JMX MBeans
D. Simulating a network environment
E. Creating new Communication Services
Topic 8: Installing, Configuring and Managing

Objective
- Install Oracle Communications Services Gatekeeper
- Create a Services Gatekeeper domain

Level
- Learner
- Practitioner

Recommended Training

Online Training
- Oracle Communications Services Gatekeeper 5 PreSales Specialist Guided Learning Path
- Oracle Communications Services Gatekeeper 5 Implementation Specialist Guided Learning Path

Oracle University Training
- Oracle Communications Services Gatekeeper 5.x Fundamentals – Oracle University

OPN Boot Camps
- Oracle Communications Services Gatekeeper Implementation Boot Camp

Sample Questions

The WebLogic Domain Configuration Wizard is useful for:

A. Simulating a network environment
B. Setting up an initial clustered environment
C. Serving as a unit test framework
D. Generating source code stubs from WSDLs.
# Topic 9: Communication and Container Services

<table>
<thead>
<tr>
<th>Objective</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Describe the content of a communications service</td>
<td>Learner</td>
</tr>
<tr>
<td>• Describe the deployment model for a communications service</td>
<td>Learner</td>
</tr>
<tr>
<td>• Describe the difference between communication services and container services</td>
<td>Learner</td>
</tr>
</tbody>
</table>

## Recommended Training

### Online Training
- Oracle Communications Services Gatekeeper 5 PreSales Specialist Guided Learning Path
- Oracle Communications Services Gatekeeper 5 Implementation Specialist Guided Learning Path

### Oracle University Training
- Oracle Communications Services Gatekeeper 5.x Fundamentals – Oracle University

### OPN Boot Camps
- Oracle Communications Services Gatekeeper Implementation Boot Camp

## Sample Questions

Using Services Gatekeeper terminology, a "Communication Service" consists of what?

- **A.** Interfaces and adapters
- **B.** A façade and enabler
- **C.** A frontend and backend
- **D.** Interceptors and cartridges
Topic 10: Configuring and Managing Services Gatekeeper

Objective

- Manage Oracle Communications Services Gatekeeper and its components
- Access and navigate the administration console
- Use the WebLogic Scripting Tool

Recommended Training

Online Training

- Oracle Communications Services Gatekeeper 5 PreSales Specialist Guided Learning Path
- Oracle Communications Services Gatekeeper 5 Implementation Specialist Guided Learning Path

Oracle University Training

- Oracle Communications Services Gatekeeper 5.x Fundamentals – Oracle University

OPN Boot Camps

- Oracle Communications Services Gatekeeper Implementation Boot Camp

Sample Questions

Services Gatekeeper exposes its management interfaces as:

A. Green Beans
B. Plan Old Java Objects (POJOs)
C. JMX MBeans
D. Java Beans
**Topic 11: Container Services**

**Objective**

- Use the Plug-in Manager container service to instantiate plug-ins and configure routes  
  Level: Practitioner

- Describe the use of the EDR container service  
  Level: Learner

- Describe the use of the SNMP container service  
  Level: Learner

- Configure the basic behavior of the Trace container service  
  Level: Practitioner

**Recommended Training**

**Online Training**

- [Oracle Communications Services Gatekeeper 5 PreSales Specialist Guided Learning Path](#)
- [Oracle Communications Services Gatekeeper 5 Implementation Specialist Guided Learning Path](#)

**Oracle University Training**

- [Oracle Communications Services Gatekeeper 5.x Fundamentals – Oracle University](#)

**OPN Boot Camps**

- [Oracle Communications Services Gatekeeper Implementation Boot Camp](#)

**Sample Questions**

For which two tasks is the Plug-In Manager typically used?

A. Creating charging data records

B. **Instantiating new plug-in instances**

C. Configuring plug-in routes

D. Sending alarms to SNMP listeners
## Topic 12: Communication Services

### Objective

- Describe the interfaces for Communication Services  
  Level: Learner
- Describe the available Communication Services  
  Level: Learner
- Describe the usage of the configuration store  
  Level: Learner

### Recommended Training

**Online Training**
- [Oracle Communications Services Gatekeeper 5 PreSales Specialist Guided Learning Path](#)
- [Oracle Communications Services Gatekeeper 5 Implementation Specialist Guided Learning Path](#)

**Oracle University Training**
- [Oracle Communications Services Gatekeeper 5.x Fundamentals – Oracle University](#)

**OPN Boot Camps**
- [Oracle Communications Services Gatekeeper Implementation Boot Camp](#)

### Sample Questions

Which network protocol does the Payment communication service support?

- A. INAP/SS7
- B. SMPP
- C. MM7
- D. Diameter
Topic 13: Accounts, Groups, and SLAs

Objective

- Use Application-centric SLAs
- Use Network-centric SLAs

Recommended Training

Online Training

- Oracle Communications Services Gatekeeper 5 PreSales Specialist Guided Learning Path
- Oracle Communications Services Gatekeeper 5 Implementation Specialist Guided Learning Path

Oracle University Training

- Oracle Communications Services Gatekeeper 5.x Fundamentals – Oracle University

OPN Boot Camps

- Oracle Communications Services Gatekeeper Implementation Boot Camp

Sample Questions

SLA’s are formulated using:

- A. Java code
- B. XML
- C. BPEL
- D. JRules
Topic 14: Platform Test Environment

Objective

- Use PTE to access the available server information
- Use PTE to configure network simulators
- Use PTE to test communication services

Recommended Training

Online Training
- Oracle Communications Services Gatekeeper 5 PreSales Specialist Guided Learning Path
- Oracle Communications Services Gatekeeper 5 Implementation Specialist Guided Learning Path

Oracle University Training
- Oracle Communications Services Gatekeeper 5.x Fundamentals – Oracle University

OPN Boot Camps
- Oracle Communications Services Gatekeeper Implementation Boot Camp

Sample Questions

In order to use the Platform Test Environment (PTE) to test network-triggered messaging with the Example Communication Service, you need to take which two steps?

A. Register a notification endpoint with the Notification Manager
B. Register a service-level agreement (SLA) with the Notification Manager
C. Start a PTE policy service that listens for the registered SLA
D. Register a network node with the Notification Manager
E. Start a Web Service that listens to the registered endpoint
Topic 15: Troubleshooting

Objective

- Find information for basic troubleshooting
- Perform basic troubleshooting

Level

Practitioner

Recommended Training

Online Training

- Oracle Communications Services Gatekeeper 5 PreSales Specialist Guided Learning Path
- Oracle Communications Services Gatekeeper 5 Implementation Specialist Guided Learning Path

Oracle University Training

- Oracle Communications Services Gatekeeper 5.x Fundamentals – Oracle University

OPN Boot Camps

- Oracle Communications Services Gatekeeper Implementation Boot Camp

Sample Questions

Which product is Services Gatekeeper running on top of?

A. Oracle Application Server
B. Oracle WebLogic Server
C. Oracle Database
D. Oracle Service Bus
Topic 16: Use Cases for Extending Services Gatekeeper

Objective

- Describe some parts of Services Gatekeeper that can be extended
- Describe some problem scenarios that can be solved through extending Services Gatekeeper

Level

Learner
- Practitioner

Recommended Training

Online Training
- Oracle Communications Services Gatekeeper 5 PreSales Specialist Guided Learning Path
- Oracle Communications Services Gatekeeper 5 Implementation Specialist Guided Learning Path

Oracle University Training
- Oracle Communications Services Gatekeeper 5.x Extending – Oracle University

OPN Boot Camps
- Oracle Communications Services Gatekeeper Implementation Boot Camp

Sample Questions

Services Gatekeeper would most likely be extended in which way?

A. Create a new communication service
B. Create a new application server
C. Create a new Eclipse wizard
D. Create a new Partner Relationship Management user interface
**Topic 17: Introduction To Eclipse and the Services Gatekeeper Plugin**

**Objective**
- Use Eclipse as your development environment for Services Gatekeeper  
  **Level** 
  Practitioner

**Recommended Training**

**Online Training**
- [Oracle Communications Services Gatekeeper 5 PreSales Specialist Guided Learning Path](#)
- [Oracle Communications Services Gatekeeper 5 Implementation Specialist Guided Learning Path](#)

**Oracle University Training**
- [Oracle Communications Services Gatekeeper 5.x Extending – Oracle University](#)

**OPN Boot Camps**
- [Oracle Communications Services Gatekeeper Implementation Boot Camp](#)

**Sample Questions**

The Eclipse plug-in for Services Gatekeeper includes wizards, one of which is for building which item?

A. **Platform Test Environment modules**  
B. A network Tier layer hook-in  
C. An Access Tier layer hook-in  
D. Event Detail Records (EDRs), Charging Data Records (CDRs) and Alarms
Topic 18: Interceptor Development

Objective

- Build a custom interceptor
- Deploy a custom interceptor
- Explain the usage of XParams
- Access XParams in a custom interceptor

<table>
<thead>
<tr>
<th>Objective</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Build a custom interceptor</td>
<td>Practitioner</td>
</tr>
<tr>
<td>Deploy a custom interceptor</td>
<td>Practitioner</td>
</tr>
<tr>
<td>Explain the usage of XParams</td>
<td>Learner</td>
</tr>
<tr>
<td>Access XParams in a custom interceptor</td>
<td>Practitioner</td>
</tr>
</tbody>
</table>

Recommended Training

Online Training

- Oracle Communications Services Gatekeeper 5 PreSales Specialist Guided Learning Path
- Oracle Communications Services Gatekeeper 5 Implementation Specialist Guided Learning Path

Oracle University Training

- Oracle Communications Services Gatekeeper 5.x Extending – Oracle University

OPN Boot Camps

- Oracle Communications Services Gatekeeper Implementation Boot Camp

Sample Questions

Which three functions are suitable for interceptors to perform?

A. Validate application service requests
B. Create SLAs
C. Manipulate data
D. Enforce SLAs
E. Service orchestration of service facades
Topic 19: Extending Services Gatekeeper

Objective

- Build and deploy the Example Communication Service extensions for the Platform Test Environment
- Build and deploy the Example Communication Service
- Test the Example Communication Service from the Platform Test Environment
- Build a Basic Communication Service
- Extend the Platform Test Environment with a Simulator
- Extend the Platform Test Environment with a Client
- Build a SOAP-to-SOAP Communication Service

Level

Practitioner

Recommended Training

Online Training

- Oracle Communications Services Gatekeeper 5 PreSales Specialist Guided Learning Path
- Oracle Communications Services Gatekeeper 5 Implementation Specialist Guided Learning Path

Oracle University Training

- Oracle Communications Services Gatekeeper 5.x Extending – Oracle University

OPN Boot Camps

- Oracle Communications Services Gatekeeper Implementation Boot Camp

Sample Questions

For which two reasons do you need to extend Services Gatekeeper?

A. Support of a new Web Service
B. Support of a new network protocol
C. Support of a new user
D. Support of a new subscriber policy
Exam Registration Details

Full exam preparation details are available on the exam page [Oracle Communications Services Gatekeeper 5 Essentials Exam (1Z1-564)](https://oracle.com), including learning objectives, number of questions, time allowance, pricing and languages available.

The OPN Certified Specialist Exams appointments are available worldwide at [Pearson VUE Testing Centers](https://www.pearsonvue.com). Reservations can be made via phone or online.

Candidates must have an Oracle Web Account to access [CertView](https://certview.oracle.com) and check their exam results. In order to have their certifications reflected on [OPN Competency Center](https://opn.oracle.com), both CertView and Pearson Vue accounts must be updated with the current OPN Company ID. Your Company ID can be obtained by contacting your local [Oracle Partner Business Center](https://www.oracle.com/partner/business-center) or by signing in to your [OPN account](https://opn.oracle.com).

Additional Resources

- [Oracle Communications Services Gatekeeper Overview](https://oracle.com)
- [Oracle Communications Services Gatekeeper Partners Information](https://oracle.com)
- [Oracle Communications Services Gatekeeper 5 Essentials Exam (1Z1-564)](https://oracle.com)
- [Oracle Communications Services Gatekeeper 5 PreSales Specialist Guided Learning Path](https://oracle.com)
- [Oracle Communications Services Gatekeeper 5 Implementation Specialist Guided Learning Path](https://oracle.com)
- [Oracle Communications Services Gatekeeper 5.x Fundamentals – Oracle University](https://oracle.com)
- [Oracle Communications Services Gatekeeper 5.x Extending – Oracle University](https://oracle.com)
- [Oracle Communications Services Gatekeeper Implementation Boot Camp](https://oracle.com)
- [Oracle Communications Services Gatekeeper Documentation](https://oracle.com)