



University of Pega

Build for Change®

PegaRULES Process Commander®

Certified Senior System Architect

Exam Blueprint



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PegaRULES Process Commander

Document: Certified Senior System Architect Exam Blueprint

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About the Certified Senior System Architect Exam

A Certified Senior System Architect (CSSA):

- Drives development streams within a project
- Helps to lead members of the development team
- Contributes to the overall success of an implementation

Paths to the Senior System Architect Certification

Segment	Description
Prior to Starting the CSSA Program	
Passed CSA Exam	Candidates must be Certified System Architects.
Tools Along Your Path to CSSA Certification	
Solution Implementation Course	Candidates attend a five day instructor-led training course. In an experiential learning environment, candidates work in implementation teams using the capabilities in PRPC to design and build an application based on a given scenario. Candidates follow the SmartBPM® Enabled Methodology and use Direct Capture of Objectives (DCO) capabilities to build the application.
e-Learning and Self-Study	Candidates complete e-Learning to gain invaluable knowledge on advanced topics not fully covered within the instructor-led curriculum. Articles, white papers, and skill building exercises are also available.
CSSA Exam	A 70-question multiple response exam that determines whether candidates have the requisite knowledge to become a Certified Senior System Architect.

About the Exam Blueprint

The purpose of the exam blueprint is to provide you with information and a roadmap of the exam content to help you better prepare for the exam.

The blueprint includes:

- The prerequisites that must be met for you to take this exam
- A list of the exam test competencies and their percentage of the exam content
- A description of the exam question formats
- A short description of the test topics within a competency

Prerequisites

- You must be a PRPC Certified System Architect (CSA)

Exam Test Competencies

The table below lists the test competencies and the extent to which they are represented as an estimated percentage of test items.

Test Competences	% of Exam
General PRPC Architecture	7.5%
Services and Connectors	10%
Rule Resolution and Achieving Reusability	12.5%
Security	7.5%
User Interface	10%
Implementation and Performance Tools	15%
Reporting	10%
BRE	10%
BPM	12.5%
Application Deployment	5%

Question Format

The examinee selects from one or more response options to answer a question. A response is considered correct when it accurately completes the statement or answers the question. Distracters or incorrect answers are plausible response options that examinees with incomplete knowledge are likely to choose.

Test item formats used in this examination are:

- **Multiple Choice** — Select one option that best answers the question or completes a statement.
- **Multiple Responses** — Select more than one option that best answers the question or completes a statement. The text states how many options are correct, such as Choose two.
- **Sample Directions** — Read the statement or question. From the response options, select the option(s) that represent the most correct or best answer(s) given the information provided.
- **True/False** — Read the statement or question. Select either true or false as the answer.

Test Competencies and Topics

General PRPC Architecture

- PRPC and JEE architecture
- WAR and EAR Deployments
- Caching
 - System Pulse
- Interacting with the Database
 - Persistence
 - Transaction Model
 - Deferred Operations Model
 - Locking
 - Threading Model
- Agents

Services and Connectors

- Architecture
 - Service Architecture
 - Connector Architecture
- Web Services
 - SOAP
 - HTTP
- Connect SQL
- File Listeners

Rule Resolution and Achieving Reusability

- Rule Resolution
- Enterprise Class Structure
 - Reasons for Building an Enterprise Class Structure
 - Enterprise Class Structure Best Practices
 - Types of Reuse
 - Reuse Techniques
 - Enterprise Class Structure Layers
 - Application Accelerator

- Reusability and Specialization
 - Importance of Rule Specialization and Reuse
 - RuleSets and Rule Specialization
 - Circumstancing
 - Improving Reusability

Security

- Authentication
 - Authentication Types
 - Enterprise Identity Management and Single Sign On
 - PRPC Authentication Types
 - PRPC Managed Authentication
- Authorization
 - Access Groups
 - User Profiles and Multiple Access Groups
 - Access Roles
 - Access Role Editor and Access Control
 - Production Levels
 - Access When and Access Deny Rules
 - Privileges
- Security and Encryption

User Interface

- UI Theory
 - Why UI is Important
 - Human Factors
 - UI Best Practices
 - UI Design Decisions
- PRPC UI Fundamentals
 - Flow Design: Standard vs. Screen Flows
 - Validation
 - Basic UI Standards
 - UI Implementation
- Branding/Skinning Wizard
- Widget Library

Implementation and Performance Tools

- Implementation Tools
 - Preflight
 - Tracer
 - Pega Log File and Alerts (including Log4J)
 - Refactoring Tools
- Performance Analysis Tools
 - Preflight
 - Performance Analyzer and Log Usage
 - PRPC Alerts
 - PegaRULES Log Analyzer
 - Application Profiler
 - DB Trace
- PRPC Maintenance
- System Management Application
- Building for Performance

Reporting

- Reporting Basics
 - Reporting Using PRPC
 - Table and Column Basics
 - Exposing Data
 - List View Features
 - Summary View Features
- OOTB Reports
 - Standard Report Types and Categories

BPM

- Case Management
- Flow Shapes
- Activities
- SmartBPM
 - Service Level Agreements
 - Routing
 - History
- Correspondence

BRE

- BRE Introduction
 - BRE Basics
 - Declaratives
- Declarative Expressions
 - Forward Chaining
 - Backward Chaining
 - Goal Seek
- Triggers and OnChange
- Declarative Pages
- Rule Execution and Delegation Strategy
 - Rule Delegation
 - Function Alias
 - BREs and Performance

Application Deployment

- Creating a Rule-Admin-Product (R-A-P) File
- RuleSet Versioning
- Exporting and Importing a R-A-P File
- Pega Log Files and Alerts
- Deployment Wizard