

Blue Prism

Developer Resources

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1 Training Courses

1.1 Foundation Training

The Foundation Course is the first step in becoming an accredited Blue Prism developer and allows trainees to acquire the skills and knowledge required to progress to the next stage of their development.

The Foundation course exposes the trainee to the basic Blue Prism configuration skills and principles and is delivered through self-learning via either a Blue Prism remote training environment or as a distributed training environment.

1.2 Surface Automation Training

The Surface Automation course provides a comprehensive insight into the techniques available within Blue Prism to orchestrate applications where the system and technology adaptors are not available.

Examples of this include remote applications accessed by solutions such as Citrix (thin client) plus specific non-standard elements in thick client applications.

1.2.1 Introduction to Surface Automation

This introduction describes the basic techniques of Surface Automation and is a pre-requisite for the Surface Automation course. However it also provides a useful taster for developers who may require the technique to interface with certain elements within Windows, Java or HTML applications.

The course uses Windows Calculator as the target application and requires 8 hours.

1.2.2 Surface Automation

The Surface Automation course is a requirement for any developer which will be working with thin client applications such as Citrix.

The course is available via a Blue Prism Remote Training Environment and also as a distributed training course.

The course requires 16-24 hours.

2 Tutorials

The following tutorials which take between 15-30 minutes are available on the Blue Prism Portal (Training – Tutorials).

BP Calendar (10 mins)

Calendars within Blue Prism represent the concept of the working day. They exist to allow schedules, configured in Control Room, and processes, using the internal Calendars business object, to check if a particular day is a working day according to the rules configured in the calendar.

Mainframe Tutorial (15 mins)

This tutorial provides an overview to automating mainframe sessions.

Object Layer Design (15 mins)

Learn how to design a scalable and efficient Blue Prism object layer

Process Controller (20 mins)

This tutorial describes the role of the Blue Prism Process Controller and explains the relevant Blue Prism functionality.

Process Creation (30 mins)

Tutorial that provides a comprehensive look at how to translate a Process Design Instruction into a Blue Prism process that is logically laid out and combines work queues, exception handling and environment variables to deliver a high quality process automation.

Process Definition Document (10 mins)

The Process Definition Document (PDD) is the anchor to the process solution and test analysis. Creating a clear and comprehensive PDD is critical to delivery success.

Raising a Support Request with Blue Prism (15 mins)

This tutorial outlines what information is required when contacting Blue Prism to raise a support request.

Release Manager - Creating and Modifying a Package (10 mins)

Detailed tutorial on how to create and modify a package.

Release Manager - Exporting a Release (10 mins)

Detailed tutorial on exporting a release.

Release Manager - Importing a Release (10 mins)

Detailed tutorial on how to import a release and how to manage conflicts.

Release Manager - Overview (10 mins)

Overview of Blue Prism's packaging and release functionality.

Release Manager - Verifying a Release (10 mins)

This tutorial explains how to verify if any of the components defined in a package have changed since a release was created.

Resource Pools (10 mins)

Resource pools allow you to group Resources into arbitrary work units that can be used as though they were a single combined unit with all the resources of the individual machines that comprise the pool.

Scheduler – Configuration (10 mins)

Follow this tutorial for how to configure scheduler options within System Manager.

Scheduler – Reports (10 mins)

This tutorial explains how to create and configure schedule reports

Scheduler – Schedules and Tasks (15 mins)

This tutorial describes how to execute processes at specified times and repeat their execution at various intervals

Scheduler – Timetables (10 mins)

Timetables provide a view of a filtered list of schedules and their calculated execution times within a specified date range.

Support Analyst (20 mins)

For Support Analysts this tutorial describes how to investigate issues using Control Room, Scheduler and Logs

User Access, Roles and Permissions (20 mins)

This tutorial covers the two Blue Prism authentication methods (Blue Prism Native Authentication and Active Directory) and how to configure roles and permissions within Blue Prism

Work Queues (20 mins)

This tutorial explores the best practice and advanced features of Blue Prism Work Queues.

3 Guides and Datasheets

The following guides and datasheets can be viewed or downloaded from the Blue Prism Portal

Blue Prism Data Sheet - Active Directory Integration

This data sheet outlines the benefits of AD as an alternative configuration to Blue Prism's proprietary User Security model. (Available at Product Documentation – Governance and Security)

Blue Prism Data Sheet – Extending Automations using the .NET Framework

Blue Prism objects have the capability to enable developers to deploy elements of .NET code within the Blue Prism platform. (Available at Product Documentation – Blue Prism Development)

Blue Prism Data Sheet - Secure Windows Authentication

This document describes a method of providing secure, controlled windows authentication for virtual machines used for robotic automation. (Available at Product Documentation – Governance and Security)

Blue Prism Login Agent - User Guide

The Login Agent software provides a mechanism for automatically and securely logging into a Windows 7 installation for the purposes of executing Blue Prism processes. (Available at Product Documentation – Governance and Security)

Blue Prism Security Data Sheet - Credential Manager

This data sheet outlines functions and features available within Blue Prism for the secure storage of the user credentials which are used to access target applications. (Available at Product Documentation – Governance and Security)

Blue Prism User Guide - Setting up the Java Access Bridge

A pre-requisite of Java integration is the successful setup of the correct Java Access Bridge. (Available at Product Documentation – Infrastructure and Installation)

Blue Prism User Guide - Web Services

Provides an overview of the capabilities of Blue Prism when required to expose Blue Prism processes/objects as web services or consume third party web services. (Available at Product Documentation – Blue Prism Development)

Exception Handling Training Guide

This module examines in more detail the more demanding yet essential topic of Exception Handling and will require 1-2 hours of the developer's time. (Available at Methodology – Process Delivery Methodology – Guides)

MAPIEx Installation Guide and Release Notes

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MAPIEx installation is a requirement for integration with Microsoft Outlook. (Available at Releases – Add Ons)

Mainframe Automation

Overview of Blue Prism's built in interfaces that expose the API functionality within a wide variety of mainframe emulators. (Available at Methodology – Process Delivery Methodology – Guides)

Using the Blue Prism Mainframe Spy

Quick user guide to use of the Blue Prism mainframe spying tool. (Available at Methodology – Process Delivery Methodology – Guides)

Lifecycle Orientation

This guide provides an important overview of the delivery phases of a process delivery. It outlines the necessary steps, documentation and resources required. Sample documents and a complete Blue Prism solution are available that automates a process using the BP Travel website within the Blue Prism Portal.

Browser Automation Guide

Overview of how to automate processes using the Internet Explorer browser.

Java Automation Guide

Overview of how to automate processes using Java applications.

4 Visual Business Objects

The following Visual Business Objects are shipped and installed with Blue Prism. They are available at the following location C:\Program Files\Blue Prism Limited\Blue Prism Automate\VBO.

The objects will need to be imported to the Blue Prism database before they can be accessed in Blue Prism.

- BPA Object - Blue Prism MAPIEx.xml (requires installation of MAPIEx available from the Portal)
- BPA Object - Calendars.xml
- BPA Object - Data - OLEDB.xml
- BPA Object - Data - SQL Server.xml
- BPA Object - Email - POP3_SMTP.xml
- BPA Object - MS Excel.xml
- BPA Object - MS Word.xml
- BPA Object - System - Active Directory.xml
- BPA Object - Utility - Collection Manipulation.xml
- BPA Object - Utility - Date and Time Manipulation.xml
- BPA Object - Utility - Encryption.xml
- BPA Object - Utility - Environment.xml
- BPA Object - Utility - File Management.xml
- BPA Object - Utility - Foreground Locker.xml
- BPA Object - Utility - General.xml
- BPA Object - Utility - HTTP.xml
- BPA Object - Utility - Image Manipulation.xml
- BPA Object - Utility - JSON.xml
- BPA Object - Utility - Locking.xml
- BPA Object - Utility - Network.xml

- BPA Object - Utility - Numeric Operations.xml
- BPA Object - Utility - Strings.xml

5 Templates

Object Examples

.bprelease file containing Object examples

Process Examples

.bprelease containing Process Examples

Process Examples - Instructions

Instructions to accompany the Process Examples .bprelease

Process Template 1

Process Template 1 is a basic template for a process that: - Loads work from a work source into a Blue Prism Work Queue - Works items in the work queue - Completes once all the cases originally loaded into the work queue have been worked

Process Template 1 - Instructions

Documentation to accompany Process Template 1

Process Template 2

Process Template 2 is a multi-purpose template designed to be modified into the foundation of numerous different styles of process. Process Template 2 offers the following in addition to Process Template 1: - Variations to how the Main Page of the process works - Additional Sub-Pages that can be used in your processes

Process Template 2 - Instructions

Documentation to accompany Process Template 2

6 Blue Prism Help

Blue Prism help provides a wealth of material focussed on integration with specific application types. Search for any of the following terms:

- SAP Integration
- Java Automation
- Java Attributes
- HTML Attributes
- Win32 Attributes
- Active Accessibility Attributes
- Troubleshooting - Java Access Bridge
- Troubleshooting - Mainframe Integration
- Troubleshooting - Browser Integration

7 Directions to Resources

As a quick guide to the most popular training resources please consider the following:

Process or Project Requirement	Training Resources
Citrix or other thin client interfaces.	<p>Training: Introduction to Surface Automation</p> <p>Training: Surface Automation Training</p> <p>Both courses are available in the Partner Download Area</p>
Inaccessible application elements in Windows, Java and browsers.	<p>Training: Introduction to Surface Automation</p> <p>This course is available in the Partner Download Area</p>
Requirement to expose Blue Prism objects as web services or consume 3 rd party web services	<p>Guide: Blue Prism User Guide - Web Services</p>
Target systems are single sign-on or Robot LAN credentials need to be secured.	<p>Guide: Blue Prism Data Sheet - Secure Windows Authentication</p> <p>Guide: Blue Prism Login Agent - User Guide</p>
Requirement to secure application credentials	<p>Guide: Blue Prism Security Data Sheet - Credential Manager</p>
Requirement to schedule processes	<p>Tutorials: Scheduler</p>
Mainframe integration	<p>Tutorial: Mainframe Automation</p> <p>Guide: Mainframe Automation</p> <p>Guide: Using the Blue Prism Mainframe Spy</p> <p>Help: Troubleshooting - Mainframe Integration</p>
Java Integration	<p>Guide: Java Automation</p> <p>Guide: Blue Prism User Guide - Setting up the Java Access Bridge</p>

	<p>Help: Java Automation</p> <p>Help: Java Attributes</p> <p>Help: Troubleshooting - Java Access Bridge</p>
Browser Integration	<p>Guide: Browser Automation</p> <p>Help: HTML Attributes</p> <p>Help: Troubleshooting - Browser Integration</p>
SAP Integration	<p>Help: SAP Integration</p>
Win32	<p>Help: Win32 Attributes</p>
MS Word Integration	<p>BPA Object - MS Word.xml</p>
MS Excel Integration	<p>BPA Object - MS Excel.xml</p>
MS Outlook	<p>Guide: MAPIEx Installation Guide and Release Notes</p> <p>BPA Object - Blue Prism MAPIEx</p>
SQL Server Integration	<p>BPA Object - Data - SQL Server</p>