# Business Object Definition

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## About this document...

The Business Object Definition describes the APIs available within a single business object, their parameters and their behaviours from both a business and technical perspective. The definition of each object function describes the business function of the interface, the parameters and usage of the business function and any technical notes required in the on-going support of the interface, including reference to the capabilities of the object. The Business Object Definition API is a dual-purpose document designed to serve the needs of both business users and technical system support staff who require information relating to the business functions available and their details. As such, the BOD is a working document and is subject to change during the course of development and implementation.

## About Business Objects

Business Objects within the environment (i.e. objects which may be drawn onto a process to capture and replicate a part of a business process) adhere to strict guidelines in their implementation. The definition and behaviour of the object both as seen in Process Studio during design time and as implemented during test or via Control Room at runtime uses the same interface definition, known as an object's capabilities. All business objects used within Blue Prism, generic and bespoke, have a common property - Get Capabilities. The GetCapabilities function returns an XML formatted string which defines the interfaces for that object, their friendly names (as they appear in Process Studio) and any inputs and outputs that are required. The Business Object Definition object captures the name, parameters, preconditions and endpoints of each function relating to a business object and translates to the object definition seen within Process Studio.

## 1.0 Utility - Barcode Generator

Generate 1 dimensional and 2 dimensional barcodes using the barcodes4.me API

The runmode of this business object is "background"

### 1.1 Generate QR Code

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Direction** | **Data Type** | **Description** |
| QR Code Value | In | Text | The text that should be encoded within the QR code |
| Download Directory | In | Text | The directory in which the barcode should be stored |
| File Name | In | Text | The name of the file (no extension is required) |
| Overwrite Existing Files | In | Flag | Optional: If the file exists should it be overwritten (Default = False) |
| Format | In | Text | Optional: File Format of the png, jpg, gif (default = jpg) |
| Size | In | Number | Optional: Size of 1-10 (Default = 5) |
| Error Correction Capability | In | Number | Optional: 0-3 (sets the level of error correction capability of the QR code) |
| Filepath | Out | Text | The filepath to which the barcode was saved |

### 1.2 Genreate Traditional Barcode

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Direction** | **Data Type** | **Description** |
| Barcode Value | In | Text | The text that should be encoded within the barcode |
| Download Directory | In | Text | The directory in which the barcode should be stored |
| File Name | In | Text | The name of the file (no extension is required) |
| Overwrite Existing Files | In | Flag | Optional: If the file exists should it be overwritten (Default = False) |
| Format | In | Text | Optional: File Format of the png, jpg, gif (default = jpg) |
| Width | In | Number | Optional: The width of the barcode in pixels, if not specified then autosizing will be applied |
| Height | In | Number | Optional: The height of the barcode in pixels,, if not specified then autosizing will be applied |
| Add Text | In | Flag | Optional: Should the valud of the barcode be displayed? (Default = True) |
| Type | In | Text | Optional: They type of barcode that is required (Default = c128b) - Options are c39, c128a, c128b, c128c, i2of5 |
| Filepath | Out | Text | The filepath to which the barcode was saved |