



Business Gateway Developer pack

Vendor testing guide

Version 1.3

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1. Background

The test guide is part of the developer pack available to all software development companies (vendors) who have signed a *Business Gateway developer licence*. HM Land Registry provides a test facility that they can use to test their integration with the Business Gateway services. Whenever new services are introduced, additional details will be added to this document and the associated test data.

2. Purpose

This document is intended for software developers using HM Land Registry web services. It should assist them to test their interface with the web services before deploying software to use the production Business Gateway.

It should be read in conjunction with the associated document, *Business Gateway vendor test data*, to be used when running the tests.

3. Overview

Support for conveyancers using Business Gateway will normally be through the supplier of their CMS. The supplier will report any production issues to HM Land Registry's Customer Support.

When conveyancers contact Customer Support with what appears to be an issue with their CMS system, rather than the Business Gateway service, the details will still be recorded but they will be instructed to contact the technical support of their CMS supplier.

The first line of support for software developers while they are integrating Business Gateway services, as well as for any other technical queries, will be the Information Services (IS) service desk.

4. Appendices

4.1. Vendor test strategy

Testing will be achieved by:

- submission of calls (conforming to defined XML submission criteria) from a vendor system to HM Land Registry via a simulated version of the Business Gateway installed in the production environment
- validation against the schema and business rules. No e-services will be initiated
- sending of appropriate response messages (successful and unsuccessful) which are hard coded in the simulated Business Gateway application (conforming to defined XML schemas).

External testers will be able to connect to a live environment to perform the tests listed in the test data document. The requests they submit will be processed using stubs that mirror the live services. The stubs will not perform any database accesses, but will send validated responses based on the data received.

The stubbed architecture will allow concurrent accesses by testers within the availability published below.

4.2. Exceptions

The response times that are provided by this test service will be different from those in the live services, as there are no back-end Enterprise Java Bean (EJB) calls and database calls. The test environment will also have a lower processing priority than the production system. It is not intended that vendors can use the test service for performance testing.

An acknowledgement response will contain the same poll back time for subsequent out of hour requests. For example, if the first acknowledgement that is sent to a user shows a poll time of 07:10:10, then if the user sends another request using the same combination of data the response will be the same i.e. the poll time will not change automatically.

N.B. The acknowledgement responses for Information Services and Network Services will have different times.

Although HM Land Registry will provide the test service, there will be no testing of vendors' products by Land Registry and no form of accreditation of vendor software.

The following scenarios will not be tested:

- role-based access for different services
- saving of requests and responses (as there are no database interactions)

4.3. Role based access control (RBAC)

In the production system Business Gateway uses portal login details. Portal will be required to setup initial password and shared secret questions to make the user login 'active'.

There are multiple portal roles available but for Business Gateway services, the only roles required are either:

- the conveyancer C4 role; a conveyancer who has a Network Access Agreement and the permission to edit and submit transactions.
- a register extract service role, which requires an additional Register Extract Service Agreement.

It will be possible to use the login details in the portal at the same time as being used through Business Gateway.

In the test system the test stubs do not have any RBAC limitations, as the user credentials are not validated. All tests use the specified user ID and password.

4.4. Network security

The security structure for vendors connecting to the test service will be the same as if they were connecting to the live system i.e. an SSL tunnel will be established using a HM Land Registry certificate. Any user connecting to the Business Gateway will need an appropriate SSL certificate to be stored on their machine to allow them to use either the production or the test service.

4.5. Availability

The test service will be available 08.00 – 17.30 Monday to Friday excluding national public holidays.

4.6. Support

Technical support will be available 09.00 – 16.00 on the days the system is available. The contact details for technical support are published on the Business Gateway web page.

5. Business services available

This section summarises the services that are currently available in the test service.

5.1. Information services

5.1.1. Title number enquiry by property description

This service provides the ability for the external system to search for a title number by providing a property description. It will retrieve a list of all properties matching the supplied property description (maximum of 50) along with their title number and tenure. The result will be returned in the response message.

5.1.2. Official search of whole with priority

This service provides the ability for the external system to request an OS1. Whenever possible the requested official search certificate is made available to the external system as a PDF.

The process involves validation of inputs and confirmation that the title is in an appropriate state for an official search to be entered.

5.1.3. Land charges bankruptcy search

This service provides the ability for the external system to make a K16 application for a bankruptcy search against private individuals and complex names.

The certificate of search result against a private individual will be returned electronically as a PDF. The certificate of search result against a complex name will be returned by post.

5.1.4. Official copy – title known

This service provides the ability for the external system to submit a request for an official copy using the title number. There are two web services for official copies:

- an OC1 when requesting an official copy of the register, title plan or certificate in form CI
- an OC2 when requesting other documents (that have not been designated exempt) referred to in the register

Whenever possible the requested official copy is made available to the external system as a PDF. However, if an electronic version of the official copy cannot be supplied, it is sent through the post.

If the external system has requested more than one type of official copy document (OC2), the system will deliver electronic versions of the documents that can be electronically returned; other documents will be sent through the post. For official copy title documents (OC1) the documents will be delivered together. For example, if register and title plan are requested electronically, and the register cannot be provided electronically, both will be sent by post. A certificate in form CI will always be delivered by post.

5.1.5. Register extract

This service provides the ability for the external system to submit a request for an official copy using the title number. As well as returning the PDF result as above, some of the information contained in the register is returned in XML format (OCXML).

The OCXML service will be available only when an official copy of the register has been ordered and if it can be provided electronically.

5.1.6. Official search of part with priority

This service provides the ability for the external system to request an OS2. Whenever possible the requested official search certificate is made available to the external system as a PDF.

The process involves validation of inputs and confirmation that the title is in an appropriate state for an official search to be entered.

5.1.7. Land charges full search

This service provides the ability for the external system to make a K15 application for a full search against private individuals, public limited companies, local authorities and complex names.

The certificate of search result against a private individual or public limited company will be returned electronically as a PDF. The certificate of search result against a local authority or complex name will be returned by post.

5.1.8. Daylist Enquiry

This service provides the ability for the external system to view a snapshot of a title's Daylist. This will reveal any pending applications that are lodged against the title. This is not historical and is a view of what is there at that moment in time.

The process involves validation of inputs and confirmation that the title is in an appropriate state for the Daylist to be viewed.

5.1.9. Search of the Index Map

This service provides the ability for the external system to request a SIM. Whenever possible the requested search result will be made available to the external system as a PDF.

The process involves validation of inputs and confirmation that the information provided is appropriate for a search to be processed.

5.1.10. Application Enquiry

This service provides the ability for the external system to view a snapshot of a title's Daylist including the progress of the applications.

A search can be made with the title number or a specific application reference.

A search made with a title number will reveal details of any pending applications that are lodged against the title, as well as any Official Searches that are in their priority period.

A search made with an application reference will return details of the specific application to which the reference relates.

Both are not historical and are snapshot views at the time the request was made.

The process involves validation of inputs and confirmation that the title or application reference are in an appropriate state for the Daylist to be viewed.

To build upon the data being returned from a daylist enquiry this service now also returns:

- Parent and new titles for a given application

- Priority period for Official Searches
- Description of the application's progress
- A list of any relevant correspondence with dates
- The channel HMLR received the original application
- An indication if the application has been expedited

5.1.11. Discharge Activity

This service provides the ability for the external system to request discharge activity for a given title number. A request made with a title number will reveal the number of discharges (of whole) that have been completed within the last 30 calendar days for the title number provided. If an optional charge date is provided that matches any of the discharged charges, then the response will also include the following details for each matching charge:

- the charge proprietors
- the date that the charge was discharged

5.2. Outstanding Requests

5.2.1. Outstanding Requests Service

This service provides the ability for the external system to submit a request to view the status of any of their outstanding requests. The response will show details of which requests the organisation has submitted that have not had a final response issued. If an application has been sent for manual processing, then the request will show in the response as not having a new response. Once the application has been completed, it will then show as a New Response, which will allow the external system to submit a poll request to collect their response.

5.3 Network Services

5.3.1 eDocument Registration Services

These services provide the ability for the external system to submit a request to change the register.

The process involves validation of all the input data collation of details to generate an AP1 and then returning the results with electronic documents as well as an xml copy of the register.

5.4 Verification Services

5.4.1 Online Ownership Verification Service

The Online Ownership Verification service identifies any titles associated with the supplied address and then checks if the supplied name matches any of the proprietors for those titles. If a title number is supplied this will be used. The match result will be returned in the response message.

5.5 Local Land Charges Services

5.5.1 Local Land Charges Services

The Local Land Charges service provide the ability for the external system to submit applications to register a local land charge or to vary or cancel the registration of a local land charge and to submit applications for an official search or personal search of the local land charges register

6. Getting started

6.1. Vendor entry criteria and checklist

The following list has the steps that a vendor would need to have taken before using the test service:

- a) sign a *Business Gateway development licence*
- b) use the *Business Gateway developer pack* to develop their interface to Business Gateway
- c) unit test their software, paying particular attention to field lengths being matched correctly
- d) apply for, and install a test SSL certificate from HM Land Registry (this process for fulfillment is documented on the web page)
- e) understand what is required and have raised any questions or concerns.

6.2. Overview of the test scenarios

Each web service has a basic set of tests for the main flows:

- a) a successful completion
- b) an out of hours situation
- c) a poll response
- d) an error situation.

The number of test scenarios will increase in the future.