

SUPPORT CONNECT KNOWLEDGE SERIES

Augment Your Problem-solving Capability

DECEMBER | EDITION 112



Welcome to the Finacle Global Support fortnightly knowledge bulletin! We're here to offer solutions for common challenges, share valuable tips, provide knowledge bytes, and keep you updated. Each edition is meticulously curated to ensure we share best practices and known resolutions. In this issue, you'll find the following articles:

- **Setting Custom HTTP Response Code**
- **Enhancing Security with CAPTCHA Functionality**

So, let's start reading!

Setting Custom HTTP Response Code

Product: Finacle Integrator | Version: 11.11

Finacle Integrator provides a feature to return different **HTTP** status code in the response, based on the Unique Business Error codes present in the **REST API** response. This feature is available for both Product and Custom Rest APIs.

By default, the product returns **HTTP Error Code 503** for **CIFatalExceptions** and **HTTP Error Code 422** for **CINonFatalExceptions**. The product includes a hook that parses the error code in the response of **CIFatalException** and **CINonFatalException** exceptions, allowing it to send a customized **HTTP** status code in the response.

Name of custom hook file can be defined in **FIMASTER.FI_CONFIG_DATA** table under **fld_name REST_ERROR_CODE_IMPL_CLASS**

```
select * from fimaster.fi_config_data where fld_name='REST_ERROR_CODE_IMPL_CLASS';
```

FI_APP_NAME	FLD_SEQ	FLD_NAME	TYPE_KEY	FLD_VALUE	FLD_ENABLED	FLD_DELETED	MI
1	GENERIC	261	REST_ERROR_CODE_IMPL_CLASS	VARCHAR	com.infosys.fip.rest.common.FIPCustErrorCodeImpl	Y	N

The Hook File should implement the **getErrorResponseHTTPStatusCode** method from the **IFIPRestResponseErrorHandler** interface. For instance, if there is a requirement to return **HTTP Error Code 423** based on the Finacle Error Code **DATF047**, the following sample code can be written in the custom hook file to send back the HTTP response code 423:

```
if (errReponse.contains("DATF047"))
{
    int responseCode = 423;
    return Response.status(responseCode).entity(jsonResponse).type("application/json").build();
}
```

Note: For further details on utilizing this feature please contact the support managers.

Enhancing Security with CAPTCHA Functionality

Product: *Finacle Online Banking* | Version: *11.2.x onwards*

CAPTCHA is a unique, distorted image that contains letters, numbers, or a combination of both. Users must accurately type the characters shown in the CAPTCHA image to complete user authentication. By using CAPTCHA, the application effectively safeguards its online services against spam, hacking attempts, and other malicious activities.

Usage in Finacle Online Banking

Features:

- When the user enters the correct CAPTCHA, the system proceeds to validate their credentials (ID and password)
- If the CAPTCHA is incorrect, a new CAPTCHA image is generated, and the user must try again
- Audio CAPTCHA option: Users can listen to CAPTCHA audio by clicking the sound icon
- Once enabled, the CAPTCHA will be available to all users

Implementation:

1. The visibility of CAPTCHA on the login screen can be controlled using the following PRPM parameter:
 - Property name: **CAPTCHA_VISIBLE**
 - Allowed values: **Y** or **N** (set the value to **Y** to enable the CAPTCHA functionality)
2. To configure the number of CAPTCHA characters, use the following PRPM parameter:
 - Property name: **NO_OF_CAPTCHA_CHARACTERS**
 - Allowed values: The value must be set to greater than '0'. The recommended CAPTCHA character count is '4', but it can be adjusted based on the bank's requirements.
3. To configure the content displayed in the CAPTCHA image, use the following PRPM parameter:
 - Property name: **CAPTCHA_CONTENT_TYPE**
 - The available options for this parameter are:
 - Numeric CAPTCHA: Set the parameter value to "**NU**" (only numbers allowed)
 - Alphanumeric CAPTCHA: Set the parameter value to "**AN**" (both letters and numbers allowed)
 - Alphabetic CAPTCHA: Set the parameter value to "**AL**" (only letters allowed)

The revamped Finacle Support Center is now accessible through these URLs. Bookmark them for easy access and login!

- **Customer Access and Login:** <https://support.finacle.com>
- **Finacle Knowledge Center** - <https://docs.finacle.com/en/signin>

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