

Qualcomm Technologies, Inc.





# **Device Registration Subsystem 3.0.0**

User Guide (Authority)

DRS-User-Guide-Authority-3.0.0

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# **Revision history**

Revision	Date	Description
А		Initial Release
В	November 2020	Release 3.0.0

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## 1. Introduction

Device Registration Subsystem (DRS) is the subsystem of Device Identification, Registration & Blocking System (DIRBS). It provides a platform for authorized user(s) to review and approve device registration and deregistration requests.

The Device Identification, Registration & Blocking System (DIRBS) is a country-wide system deployed in cooperation between the country regulator, operators in that country, and a technology partner that supports deployment. The system checks, identifies, and discourages non-compliant devices by verifying the installed base of devices currently active in a market and continuing to monitor as new devices are activated.

#### DIRBS can verify that:

- Devices have properly allocated identifiers and type approval
- Devices are not duplicated or stolen
- Device importation takes place through legal channels

### 1.1. Purpose

This document is intended to give assistance to the user to use the Device Registration Subsystem (DRS).

### 1.2. Supported Desktop Browsers

Table 1 - Supported Desktop Browsers

Name	Version
Internet Explorer	11.719
Firefox	82.0.2
Chrome	86.0
Safari	13.1.2
Edge	87.0

## 1.3. Supported Mobile Browsers

Table 2 - Supported Mobile Browsers

Name	Version
Chrome	86.0.4
UC Browser	13.3.2
Opera (Android)	60.3
Opera Touch (iOS)	2.5.1
Safari	13.1.2
Samsung Internet	13.0.1
Android	10

## 1.4. Definitions, Acronyms, and Abbreviations

Table 3 - Definition, Acronyms, and Abbreviations

Term	Definition	
DIRBS	Device Identification Registration and Blocking System	
IAM	Identity Access Management System	
DRS	Device Registration Subsystem	
MSISDN	Mobile Subscriber Integrated Services Directory Number	
IMEI	International Mobile Equipment Identity	
IMSI	International mobile subscriber identity	
TAC	Type Allocation Code	

# 2. System Description

Table 4 - System Description

Feature/Sections	Explanation		
Login Screen	To access the system, authorized user first needs to enter his/her credentials on login page This login page authenticate user from the IAM and redirects user to DRS		
Portal Sections	The portal is divided in to following sections.		
	Header		
	Header section displays the name of the system and it contains following features.		
	Language selection Drop-Down		
	Allows user to change the language of system in English, Spanish and Indonesian.		
	User profile Drop-down		
	Displays the user name with logout functionality.		
	Notification Alert Icon		
	System notifies reviewer whenever importer/exporter updates/modifies request while being in information requested state.		
	Navigation Panel		
	Navigation Panel contains main navigation menu through which user can navigate the whole system.  • Main Content Area		
	Main Content Area contains all the content to be displayed and actions to be performed for respective feature.		
	Breadcrumbs		
	Breadcrumbs allow user to keep track of their location within the system.		
	• Footer		
	Footer contains the software version and copyrights statement.		
Dashboard	The dashboard displays the total count of the pending requests and in-review requests. It also displays recent pending requests along with their details		

Feature/Sections	Explanation		
Search Requests	<ul> <li>Allows user to search a particular request by applying different filters i.e. request ID, request status, device IMEI, create date, last updated, brand, model name, model number, device type, operating system, technologies, device count, number of IMEIs per device, manufacturing location</li> </ul>		
Request Sections	Request contains the following sections to review such that		
	Device Quota		
	Device Description		
	IMEI Classification Result		
	IMEI Registration Status		
	Approval Documents		
Device Quota	Allowed Device Quota		
	Displays the total count of devices that a user can register.		
	Used Device Quota		
	Displays the total number of devices registered by user.		
	Request Device Count		
	Displays the number of devices user is requesting for.		
	Remaining Device Quota		
	Displays the total number of remaining devices.		

Feature/Sections	Explanation		
Device Description	Displays both user and GSMA device descriptions.		
	Brand		
	Displays the brand name of device.		
	Model Name		
	Displays the model name of device.		
	Model Number		
	Displays the model number of a device.		
	Manufacturer		
	Displays name of the company/country where the device is manufactured.		
	Device Type		
	Displays the device type i.e. smartphone, tablet etc.		
	Operating System		
	Displays the operating system of device i.e. Android or iOS.		
	Radio access technology		
	Displays the radio access technologies of that device i.e. 2G, 3G, 4G, 5G etc.		
IMEI Classification Results	Displays the below classified results based on particular request of a user		
	IMEI Compliance Status		
	Pre-Condition Classification State		
	Lost/Stolen Status		
	Seen on Network		
	Download Report Link		
	Show Report to the User		

Feature/Sections	Explanation	
IMEI Compliance State	Non-compliant	
	Displays the total count of IMEIs that are not registered with regulatory authority.	
	Compliant	
	Displays the total count of IMEIs that are registered with regulatory authority.	
	Provisional non-compliant	
	Displays total count of the IMEIs that have been reported as lost/stolen but not blocked yet.	
	Provisional compliant	
	Displays total count of the IMEIs that are requested for registration but are not approved yet.	
Pre-Condition	Duplicate	
Classification State	Displays the total count of duplicate IMEIs.	
	GSMA Not Found	
	Displays the total count of IMEIs that are not registered in GSMA database.	
	Local Stolen	
	Displays the total count of IMEIs that are reported as lost/stolen.	
	Malformed	
	Displays the total count of IMEIs that contains the character other than hexadecimal number.	
	Not on registration list	
	Displays total count of the IMEIs that are not being requested for registration.	
Lost/Stolen Status	Stolen status	
	Displays the total count of IMEIs that are reported as stolen.	
	Provisional stolen	
	Displays total count of the IMEIs that are reported as lost/stolen but not blocked yet.	
Seen on Network	Displays the total count of IMEIs seen on network.	
Download Report Link	Allows user to download the report to view non-compliant IMEIs.	
Show Report to the user	Allows user to share the report with requester(importer/exporter).	

Feature/Sections	Explanation		
IMEI Registration	Displays the registration status based on total requests of a user.		
Status	Duplicate IMEIs		
	Displays the total count of duplicate IMEIs.		
	Pending Registration		
	Displays the total count of IMEIs that have been requested for registration but no action is performed yet by the authorized entity.		
	Registered		
	Displays the total count of IMEIs that are registered.		
	Not Registered		
	Displays the total count of IMEIs that have been rejected by the authorized entity.		
Approval Documents	Allows user to download and verify the approval documents such that		
	Shipment Document		
	Authorization Document		
	Certificate Document		

Feature/Sections	Explanation		
Request Status	Displays the status of the request. The previous and new statuses with required actions are mention in the below table.		
	Previous request status	Action	New request status
	Pending Review	Authorized entity assigns request	In Review
	In Review	Authorized entity approves all sections	Approved
	In Review	Authorized entity marks a section as incomplete/missing	Information Requested
	In Review	Authorized entity marks a section as rejected	Rejected
	In Review	Authorized entity un-assigns request	Pending Review
	In process	System generates the reports	Pending review
	In complete	Authorized entity can view the request	Incomplete
	Failed	Authorized entity re-initiates the request	In process

# 3. System Navigation

## 3.1. Login Screen

- 1. Enter your credentials i.e. Username and Password.
- 2. Click on the "Log in" button.

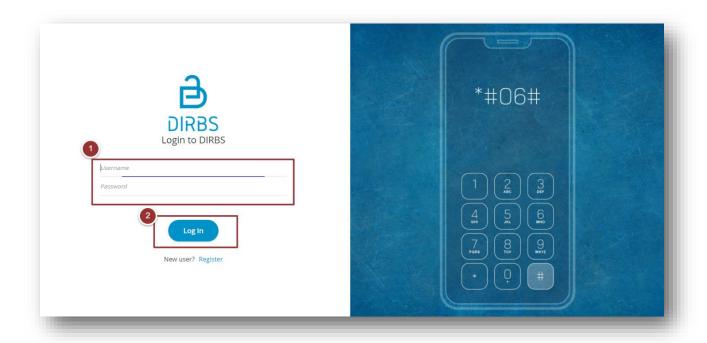


Figure 1 - Login Screen

### 3.2. Portal Sections

The portal screen is divided into following sections.

- **1. Header** section displays the name of the system, a drop-down menu for language selection, notification alert icon and name of the logged in user with logout functionality.
- 2. Main Navigation Panel helps user to navigate the system.
- 3. Breadcrumbs is a navigational aid in UI.
- **4. Main Content Area** contains all relevant information related to the respective feature/option.
- **5. Footer** contains the version and copyrights statement.

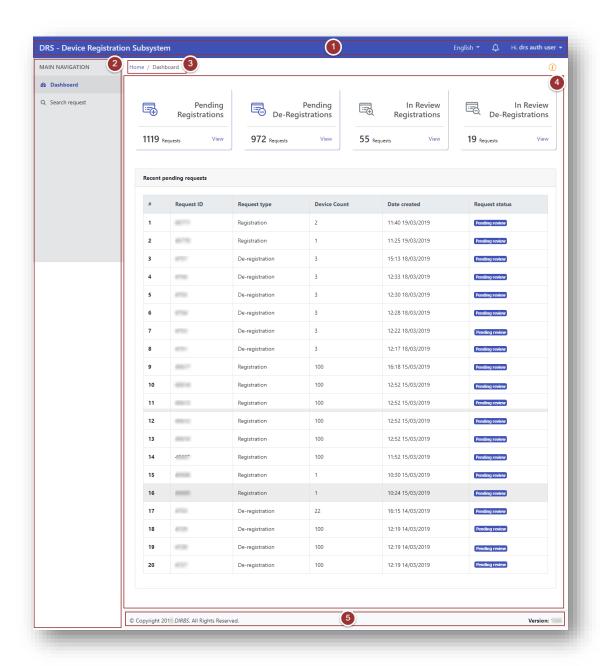


Figure 2 - Portal Sections

### Language Menu

1. To select the required language, click on language drop-down menu.

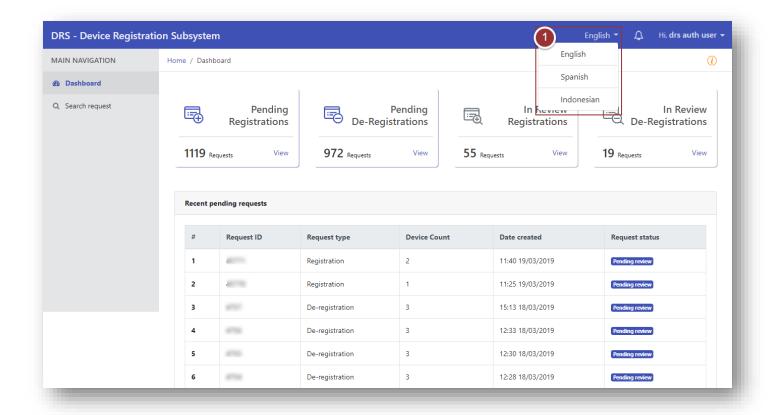


Figure 3 - Language Menu

#### **Notification Alert**

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1. To view notification(s), click on notification alert icon

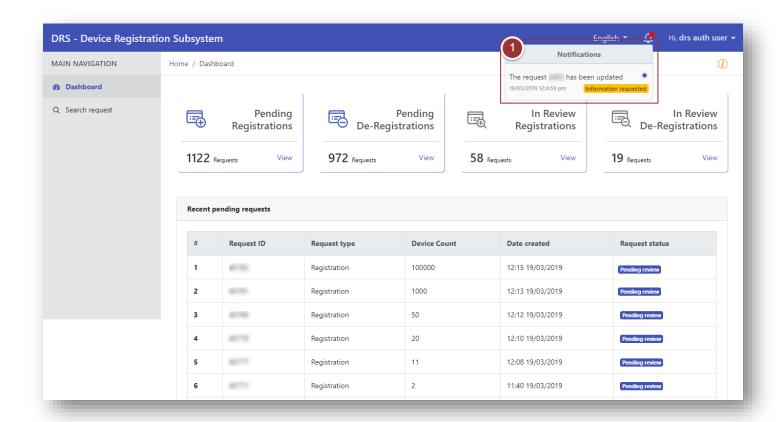


Figure 4 - Notification Alert Icon

### 3.3. Dashboard

By clicking on "Login" button, user will be redirected to the dashboard screen that displays the total count of pending requests and in-review requests. It also displays the recent pending requests along with their details.

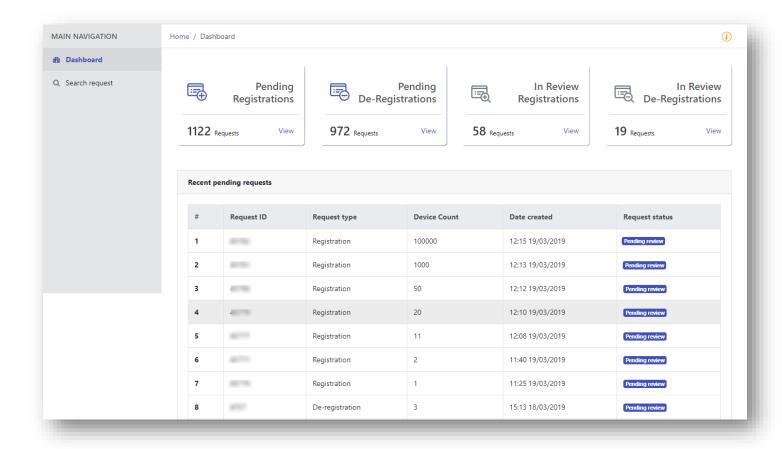


Figure 5 - Dashboard

By clicking on any recent pending request, user will be redirected to that particular request.

### **System Instructions**

1. To view instructions of system, click on icon



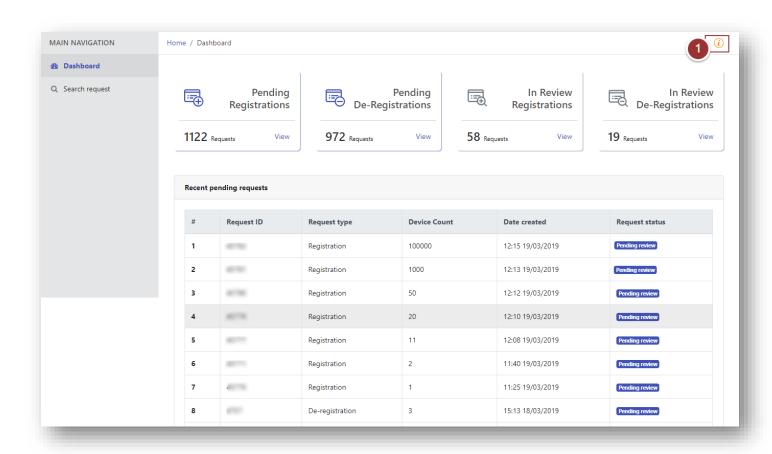


Figure 6 - System Instructions (i)

By clicking on instructions icon, instructions for the user.



a pop up will appear that displays the

2. Click on "Close" button to proceed further.

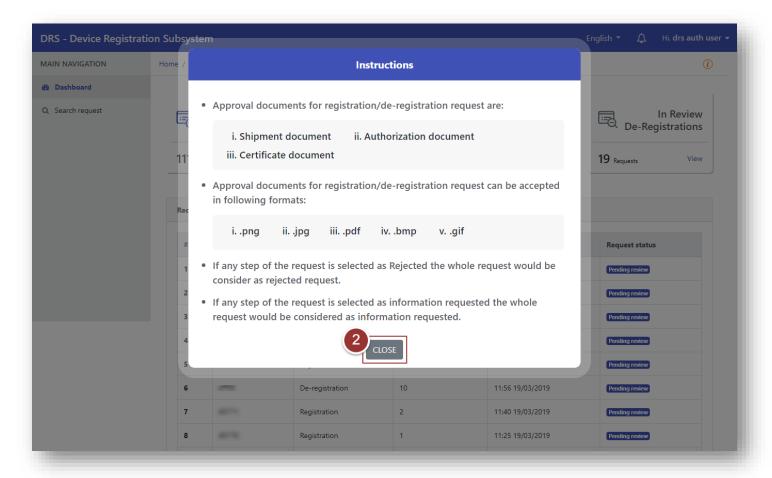


Figure 7 - System Instructions (ii)

### 3.4. Search Request

- 1. To search any request, click on "Search Request" tab.
- 2. To view all requests, click on "Search Requests" button.

**Note**: By default, request type is set as "Registration". To search requests for deregistration, user must have to change request type to "Deregistration".

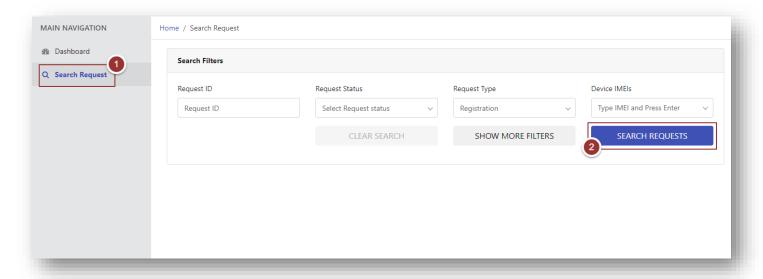


Figure 8 - Search Requests

By clicking" Search Requests" button, system will display all requests that contain Request ID, Request Type, Device Count, Date Created, Date Last Updated, Request Status, and Actions. To manage number of found requests to be displayed on a page, click on the drop-down menu "Show Requests" and select required number.

3. To view the request, click on the "View" Link against respective request.

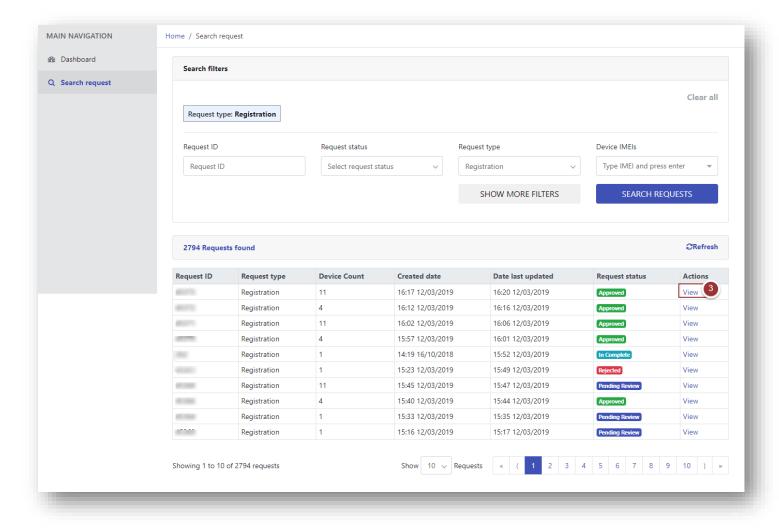


Figure 9 - View Requests

### **View Request**

Perform steps 1-3 as per section 3.4

**4.** The "View" link will redirect to request details page, click on "Next" button to view the other sections of the request.

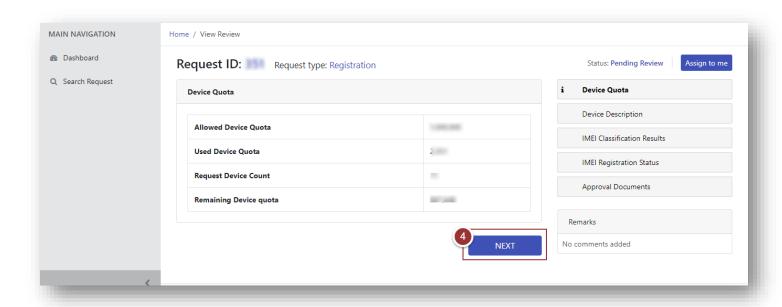


Figure 10 - View Request Sections

Perform step 4 to view all sections of the request.

### **Assign Request**

Perform steps 1-3 as per section 3.4

The "View" link will redirect to request details page while viewing the request, user can assign/unassign "Pending Review" requests.

**4.** To assign the request, click on "Assign to me" button.

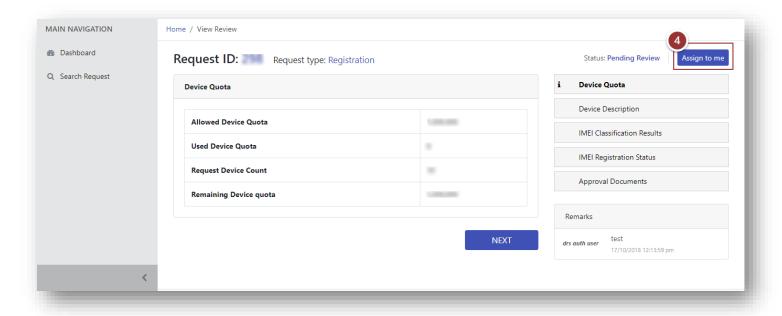


Figure 11 - Assign Request

- **5.** To change status of reviewed section of request, select the status (Approve, Information Requested, or Rejected) from drop-down menu accordingly.
- **6.** Enter the feedback in respective comment box.
- 7. Click on "Next" button.

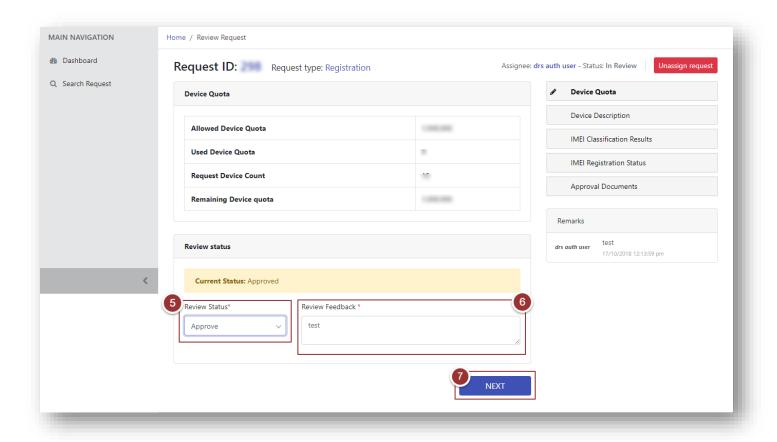


Figure 12 - Review Status (i)

By clicking on "Next" button, a page will appear that displays details of request under "Device Description" section.

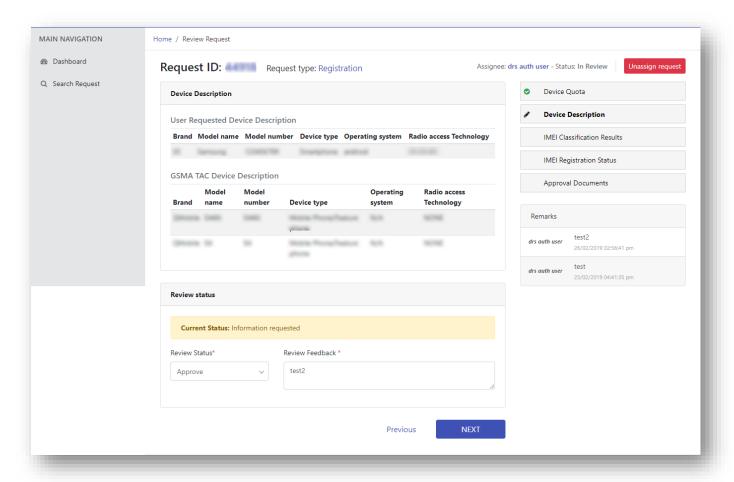


Figure 13 - Review Status (ii)

Perform steps 5-7 to change status of the above section.

After changing status of "Device Description", next section that user will review is "IMEI Classification Results".

**8.** To share report with particular requester i.e. Importer/Exporter, check the check box against the "Show Report to User" field.

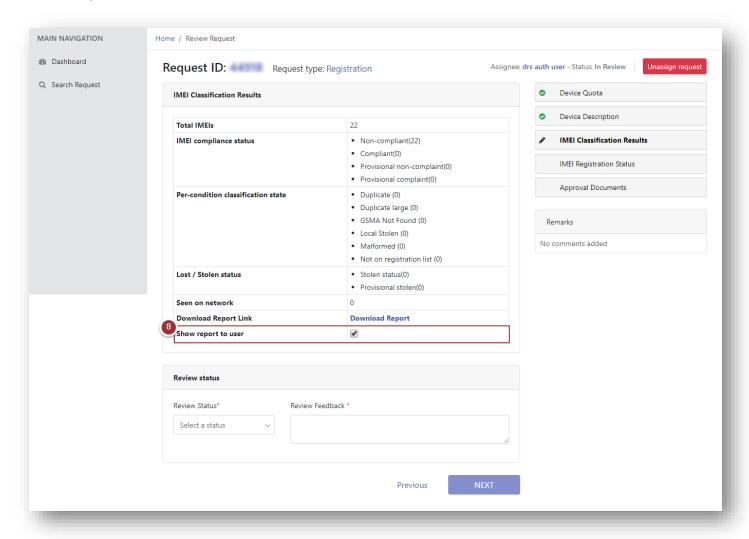


Figure 14 - Review Status (iii)

Perform steps 5-7 to change status of the above section.

After reviewing "IMEI Classification Results" section, a page will appear that displays "IMEI Registration Status" section.

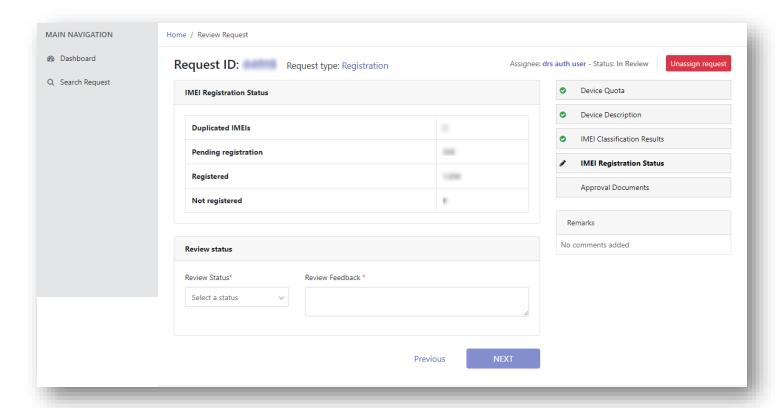


Figure 15 - Review Status (iv)

To change status for every section of the request, perform steps 5 -7.

**9.** After changing the status of last section i.e. Approval Documents of the request, click on "Finish" button.

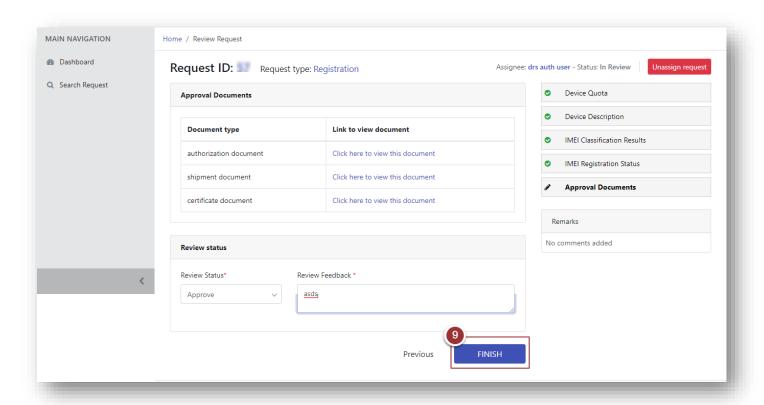


Figure 16 - Review Status (v)

### 3.5. Search Particular Request

- 1. To search any particular request, click on "Search Request" tab.
- 2. Enter any known information about the request i.e. Request ID, Request Status, Device IMEIs etc. For more search filters, click on "Show More Filters" button and enter known information related to the request.

**Note**: By default, request type is set as "Registration". To search requests for deregistration user must have to change request type to "Deregistration".

3. Click on "Search Requests" button.

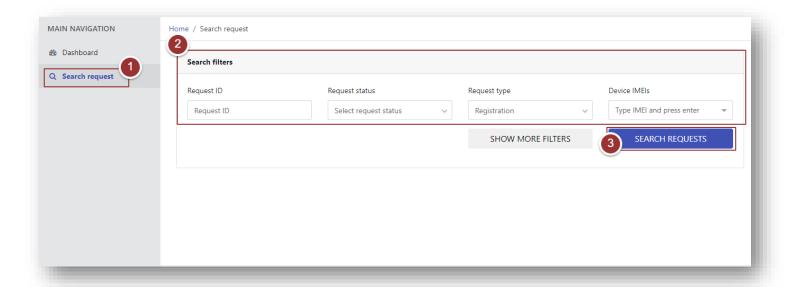


Figure 17 - Search Filters (i)

By clicking on "Search Requests" button, it will display the request with applied search filters.

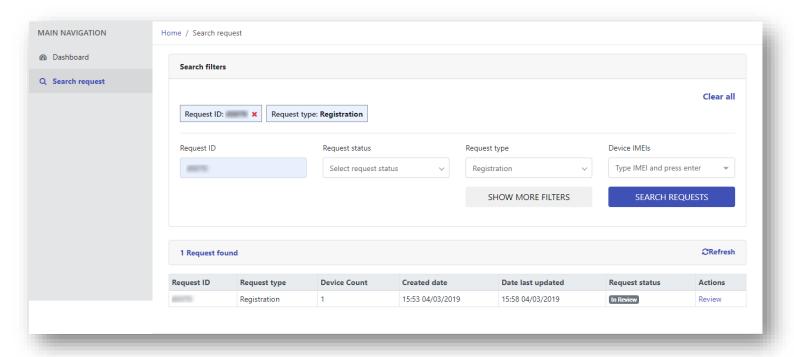


Figure 18 - Search Filters (ii)