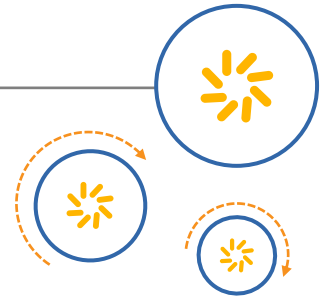




Qualcomm Technologies, Inc.



# Device Registration Subsystem 1.0.0

## User Guide (Authority)

DRS-User-Guide-Authority-1.0.0

June 19, 2018

## Revision history

Revision	Date	Description
A		Initial release

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# 1. Introduction

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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	11.0
Firefox 52.5 ESR	57.0
Chrome	63.0
Safari	11.0
Edge	41.16299

## 1.3. Supported Mobile Browsers

**Table 2-Supported Mobile Browsers**

Name	Version
Chrome	63.0
UC Browser	11.5
Opera(Android)	44.1
Opera(iOS)	16.0.7
Safari	11.1
Samsung Internet	6.2
Android	4.1.x - 4.3

## 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

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**Table 4-System Description**

Feature/Sections	Explanation
Login Screen	<ul style="list-style-type: none"><li>• To access the system, authorized user first needs to enter his/her credentials on login page, this login page authenticates user from the IAM and redirects user to DRS</li></ul>
Dashboard Screen	<p>The dashboard screen displays the instructions for the user which has the following sections</p> <ul style="list-style-type: none"><li>• <b>Header</b> Header section displays the name of the system, name of the logged in user with logout functionality</li><li>• <b>Navigation Panel</b> Navigation Panel contains main navigation menu through which user can navigate the whole system.</li><li>• <b>Main Content Area</b> Main Content Area contains all the content to be displayed and actions to be performed for respective feature</li><li>• <b>Breadcrumbs</b> Breadcrumbs allows user to keep track of their location within the system</li><li>• <b>Footer</b> Footer contains the software version and copyrights statement</li></ul>
Search Requests	<ul style="list-style-type: none"><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	<ul style="list-style-type: none"><li>• Request contains the following sections to review such that<ul style="list-style-type: none"><li>• Device Quota</li><li>• Device Description</li><li>• IMEI Classification Result</li><li>• IMEI Registration Status</li><li>• Approval Documents</li></ul></li></ul>

Feature/Sections	Explanation
Device Quota	<ul style="list-style-type: none"> <li>• <b>Allowed Device Quota</b> Displays the total count of devices that a user can register</li> <li>• <b>Used Device Quota</b> Displays the total number of devices registered by user</li> <li>• <b>Request Device Count</b> Displays the number of devices user is requesting for</li> <li>• <b>Remaining Device Quota</b> Displays the total number of remaining devices</li> </ul>
Device Description	<p>Displays both user and GSMA device descriptions</p> <ul style="list-style-type: none"> <li>• <b>Brand</b> Displays the brand name of the device</li> <li>• <b>Model Name</b> Displays the model name of the device</li> <li>• <b>Model Number</b> Displays the model number of the device</li> <li>• <b>Manufacturer</b> Displays the name of the company/country where the device is manufactured</li> <li>• <b>Device Type</b> Displays the device type i.e. smartphone, tablet etc.</li> <li>• <b>Operating System</b> Displays the operating system of the device i.e. Android or iOS</li> <li>• <b>Radio access technology</b> Displays the radio access technologies of that device i.e. 2G, 3G, 4G, 5G etc.</li> </ul>
IMEI Classification Results	<ul style="list-style-type: none"> <li>• Displays the below classified results based on particular request of a user             <ul style="list-style-type: none"> <li>• IMEI Compliance Status</li> <li>• Pre-Condition Classification State</li> <li>• Lost/Stolen Status</li> <li>• Seen On Network</li> <li>• Download Report Link</li> </ul> </li> </ul>

Feature/Sections	Explanation
IMEI Compliance State	<ul style="list-style-type: none"> <li>• <b>Non-compliant</b> Displays the total count of IMEIs that are not registered with regulatory authority</li> <li>• <b>Compliant</b> Displays the total count of IMEIs that are registered with regulatory authority</li> <li>• <b>Provisional non-complaint</b> Displays the total count of the IMEIs that are reported as lost/stolen but not blocked yet</li> <li>• <b>Provisional complaint</b> Displays the total count of the IMEIs that are requested for registration but not approved yet</li> </ul>
Pre-Condition Classification State	<ul style="list-style-type: none"> <li>• <b>Duplicate</b> Displays the total count of duplicate IMEIs</li> <li>• <b>GSMA Not Found</b> Displays the total count of IMEIs that are not registered in GSMA database</li> <li>• <b>Local Stolen</b> Displays the total count of IMEIs that are reported as lost/stolen</li> <li>• <b>Malformed</b> Displays the total count of IMEIs that contains the character other than hexadecimal number</li> <li>• <b>Not on registration list</b> Displays the total count of the IMEIs that are not being requested for registration</li> </ul>
Lost/Stolen Status	<ul style="list-style-type: none"> <li>• <b>Stolen status</b> Displays the total count of IMEIs that are reported as stolen</li> <li>• <b>Provisional stolen</b> Displays the total count of the IMEIs that are reported as lost/stolen but not blocked yet</li> </ul>
Seen On Network	<ul style="list-style-type: none"> <li>• Displays the total count of IMEIs seen on network</li> </ul>
Download Report Link	<ul style="list-style-type: none"> <li>• Allows user to download the report to view the non-compliant IMEIs</li> </ul>



Feature/Sections	Explanation
IMEI Registration Status	<p>Displays the registration status based on the total requests of a user</p> <ul style="list-style-type: none"><li>• <b>Duplicate IMEIs</b> Displays the total count of duplicate IMEIs</li><li>• <b>Pending Registration</b> Displays the total count of IMEIs that have been requested for registration but no action is performed yet by the authorized entity</li><li>• <b>Registered</b> Displays the total count of IMEIs that are registered</li><li>• <b>Not Registered</b> Displays the total count of IMEIs that have been rejected by the authorized entity</li></ul>
Approval Documents	<ul style="list-style-type: none"><li>• Allows user to download and verify the approval documents such that<ul style="list-style-type: none"><li>• Shipment Document</li><li>• Authorization Document</li><li>• Certificate Document</li></ul></li></ul>

Feature/Sections	Explanation		
Request Status	The previous and new statuses with required actions are mention in the below table		
	<b>Previous request status</b>	<b>Action</b>	<b>New request status</b>
	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-initiate the request	In process

## 3. System Navigation

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### 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. Dashboard Overview

The dashboard screen is divided into following sections

1. **Header** section displays the name of the system, 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

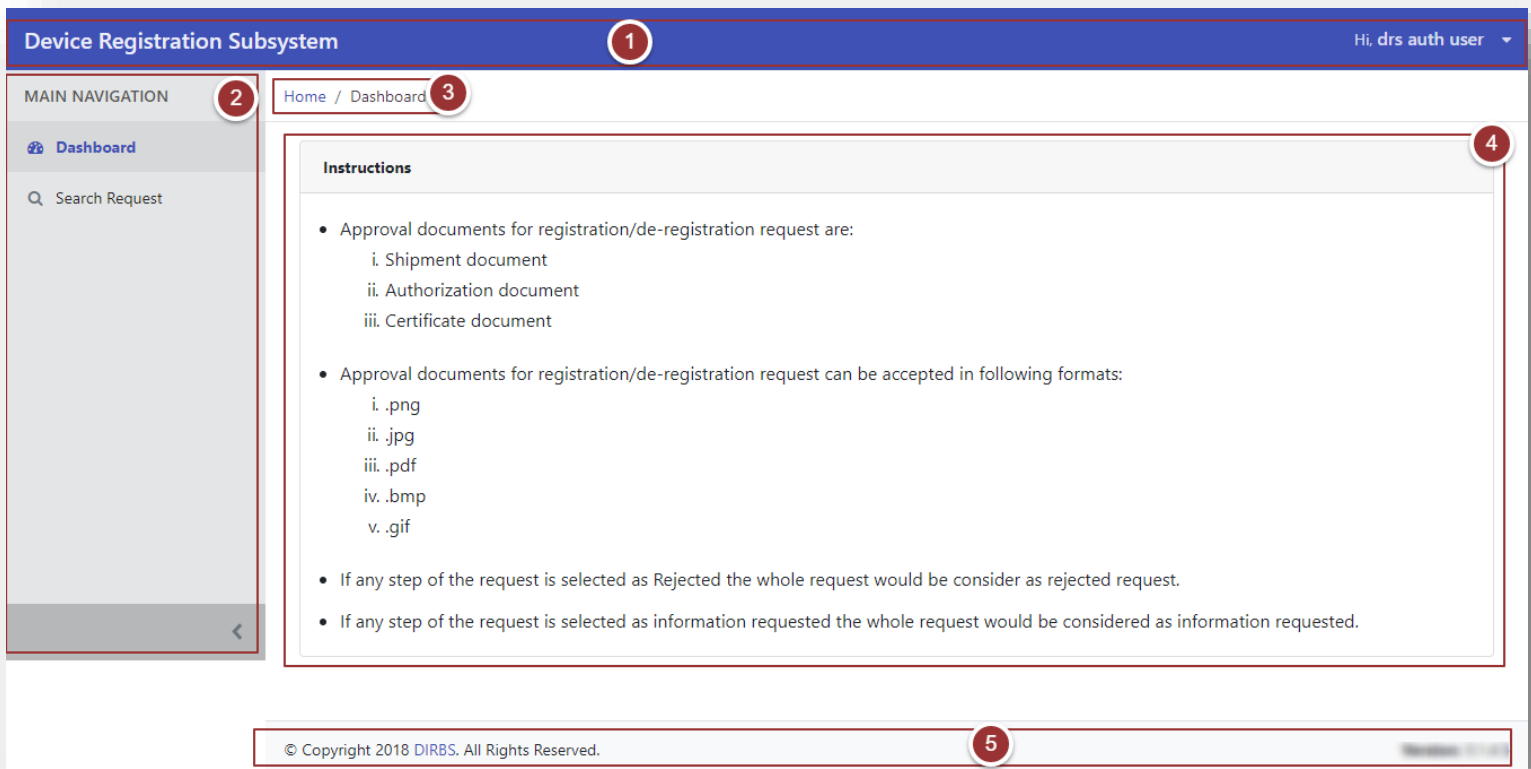


Figure 2-Dashboard Overview

## 3.3. Search Request

1. To search any request, click on “Search Request ” tab
2. To view all requests, click on the “Search Requests” button

The screenshot displays the 'Search Request' interface. On the left, a 'MAIN NAVIGATION' sidebar contains 'Dashboard' and 'Search Request' (highlighted with a red box and a red circle with the number 1). The main content area has a breadcrumb 'Home / Search Request'. Below this is a 'Search Filters' section with four input fields: 'Request ID' (with a placeholder 'Request ID'), 'Request Status' (a dropdown menu showing 'Select Request status'), 'Request Type' (a dropdown menu showing 'Registration'), and 'Device IMEIs' (a dropdown menu showing 'Type IMEI and Press Enter'). Below these fields are two buttons: 'CLEAR SEARCH' and 'SHOW MORE FILTERS'. To the right of these buttons is a blue 'SEARCH REQUESTS' button, which is highlighted with a red box and a red circle with the number 2.

**Figure 3-Search Requests**

On clicking the button, system will display all requests that contain (Request ID, Request Type, Device Count, Date Created, Date Last Updated, Request Status, and Actions)

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

MAIN NAVIGATION

Dashboard
Search Request

Home / Search Request

Search Filters

Request ID

Request ID

Request Status

Select Request status

Request Type

Registration

Device IMEIs

Type IMEI and Press Enter

CLEAR SEARCH

SHOW MORE FILTERS

SEARCH REQUESTS

283 Requests found
Refresh

Request ID	Request Type	Device Count	Date Created	Date Last Updated	Request Status	Actions
330	Registration	1000	2018-10-17 05:36:12	2018-10-17 05:37:40	In Process	View 3
62	Registration	1	2018-10-12 12:03:36	2018-10-17 05:28:10	Pending Review	View
329	Registration	1	2018-10-17 04:51:51	2018-10-17 05:17:43	Approved	View
312	Registration	10	2018-10-16 12:01:15	2018-10-17 05:04:16	Information Requested	View
328	Registration	2	2018-10-17 04:51:32	2018-10-17 05:01:54	Rejected	View
297	Registration	10	2018-10-16 12:01:15	2018-10-17 04:51:19	Information Requested	View
321	Registration	10	2018-10-16 12:01:15	2018-10-17 04:38:23	In Review	View
327	Registration	1	2018-10-17 04:35:56	2018-10-17 04:38:15	Pending Review	View
320	Registration	10	2018-10-16 12:01:15	2018-10-16 12:52:46	Approved	View
326	Registration	400	2018-10-16 12:39:43	2018-10-16 12:42:04	Approved	View

Showing 1 to 10 of 283 requests

<
1
2
3
4
5
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8
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10
>
»

Figure 4-View Requests

### 3.3.1. View Request

Perform steps 1-3 as per [section3.3](#)

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

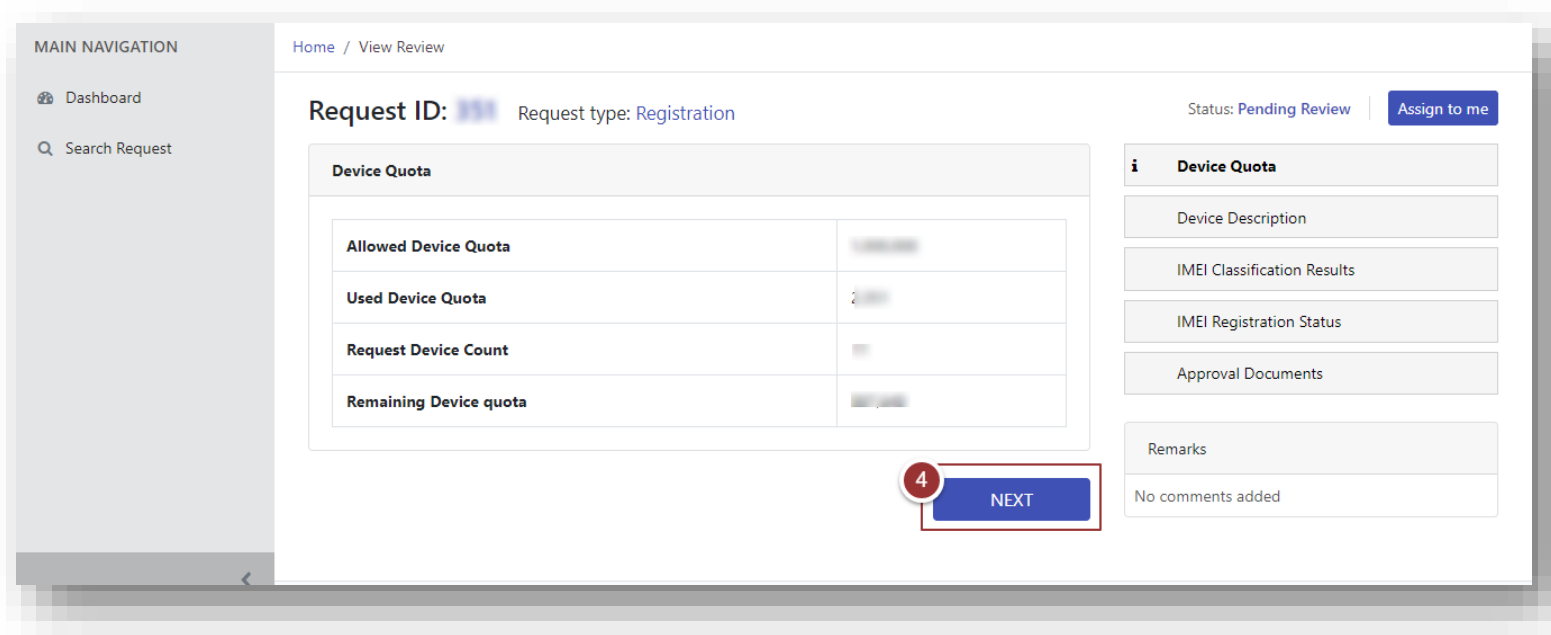


Figure 5-View Request Sections

Perform step 4 to view all sections of the request

### 3.3.2. Assign Request

Perform steps 1-3 as per [section 3.3](#)

The “View” link will redirect to the request details page while viewing the request, user can assign/unassign the request with “Pending Review” status

4. To assign the request, click on “Assign to me” button

MAIN NAVIGATION

Home / View Review

Request ID: 298 Request type: Registration

Status: Pending Review **4** Assign to me

Device Quota	
Allowed Device Quota	1000000
Used Device Quota	0
Request Device Count	0
Remaining Device quota	1000000

NEXT

**i** Device Quota

Device Description

IMEI Classification Results

IMEI Registration Status

Approval Documents

Remarks

drs auth user test  
17/10/2018 12:13:59 pm

Figure 6-Assign Request



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

The screenshot displays the 'Review Request' interface. On the left is a 'MAIN NAVIGATION' sidebar with 'Dashboard' and 'Search Request' options. The main content area shows 'Request ID: 298' and 'Request type: Registration'. A table under 'Device Quota' lists 'Allowed Device Quota', 'Used Device Quota', 'Request Device Count', and 'Remaining Device quota'. Below this is the 'Review status' section, which includes a yellow bar indicating 'Current Status: Approved'. A red box labeled '5' highlights the 'Review Status\*' dropdown menu, which currently shows 'Approve'. Another red box labeled '6' highlights the 'Review Feedback \*' text area, which contains the word 'test'. A third red box labeled '7' highlights the 'NEXT' button. On the right side, there are sections for 'Device Quota' (with links to Device Description, IMEI Classification Results, IMEI Registration Status, and Approval Documents) and 'Remarks' (showing a comment by 'drs auth user' on 17/10/2018).

**Figure 7-Review Status**

To change the status accordingly for every reviewed section of the request perform the steps 5 -7

- After changing the status of the last reviewed section (i.e. Approval Documents) of the request, click on the “Finish” button

Home / Review Request

Request ID: [icon] Request type: Registration Assignee: drs auth user - Status: In Review [Unassign request](#)

**Approval Documents**

Document type	Link to view document
authorization document	<a href="#">Click here to view this document</a>
shipment document	<a href="#">Click here to view this document</a>
certificate document	<a href="#">Click here to view this document</a>

**Review status**

Review Status\* Approve Review Feedback \* asds

Previous **FINISH**

Figure 8-Review Status 2

9. To search the particular request enter any known information (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
10. Click on “Search Requests” button

The screenshot displays the 'Search Request' page. On the left is a 'MAIN NAVIGATION' sidebar with 'Dashboard' and 'Search Request' (highlighted). The main content area has a breadcrumb 'Home / Search Request'. A red box labeled '9' highlights the 'Search Filters' section, which contains four input fields: 'Request ID' (with placeholder 'Request ID'), 'Request Status' (with placeholder 'Select Request status' and a dropdown arrow), 'Request Type' (with placeholder 'Registration' and a dropdown arrow), and 'Device IMEIs' (with placeholder 'Type IMEI and Press Enter' and a dropdown arrow). Below these fields are two buttons: 'CLEAR SEARCH' and 'SHOW MORE FILTERS'. A red box labeled '10' highlights the 'SEARCH REQUESTS' button, which is blue with white text.

**Figure 9-Search Filters**