Qualcomm
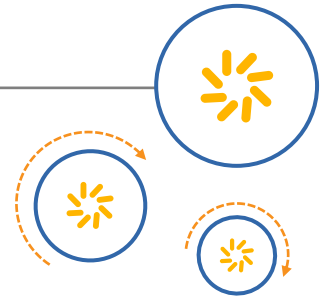
Qualcomm Technologies, Inc.

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**

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**

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
Dashboard Screen	The dashboard screen displays the instructions for the user which has the following sections • **Header** Header section displays the name of the system, name of the logged in user with logout functionality • **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 allows user to keep track of their location within the system • **Footer** Footer contains the software version and copyrights statement
Search Requests	• 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
Request Sections	• Request contains the following sections to review such that • Device Quota • Device Description • IMEI Classification Result • IMEI Registration Status • Approval Documents

Feature/Sections	Explanation
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
Device Description	Displays both user and GSMA device descriptions • **Brand** Displays the brand name of the device • **Model Name** Displays the model name of the device • **Model Number** Displays the model number of the device • **Manufacturer** Displays the 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 the 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

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-complaint** Displays the total count of the IMEIs that are reported as lost/stolen but not blocked yet • **Provisional complaint** Displays the total count of the IMEIs that are requested for registration but not approved yet
Pre-Condition Classification State	• **Duplicate** 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 the 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 the 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 the non-compliant IMEIs

Feature/Sections	Explanation
IMEI Registration Status	Displays the registration status based on the total requests of a user • **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	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-initiate 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. 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
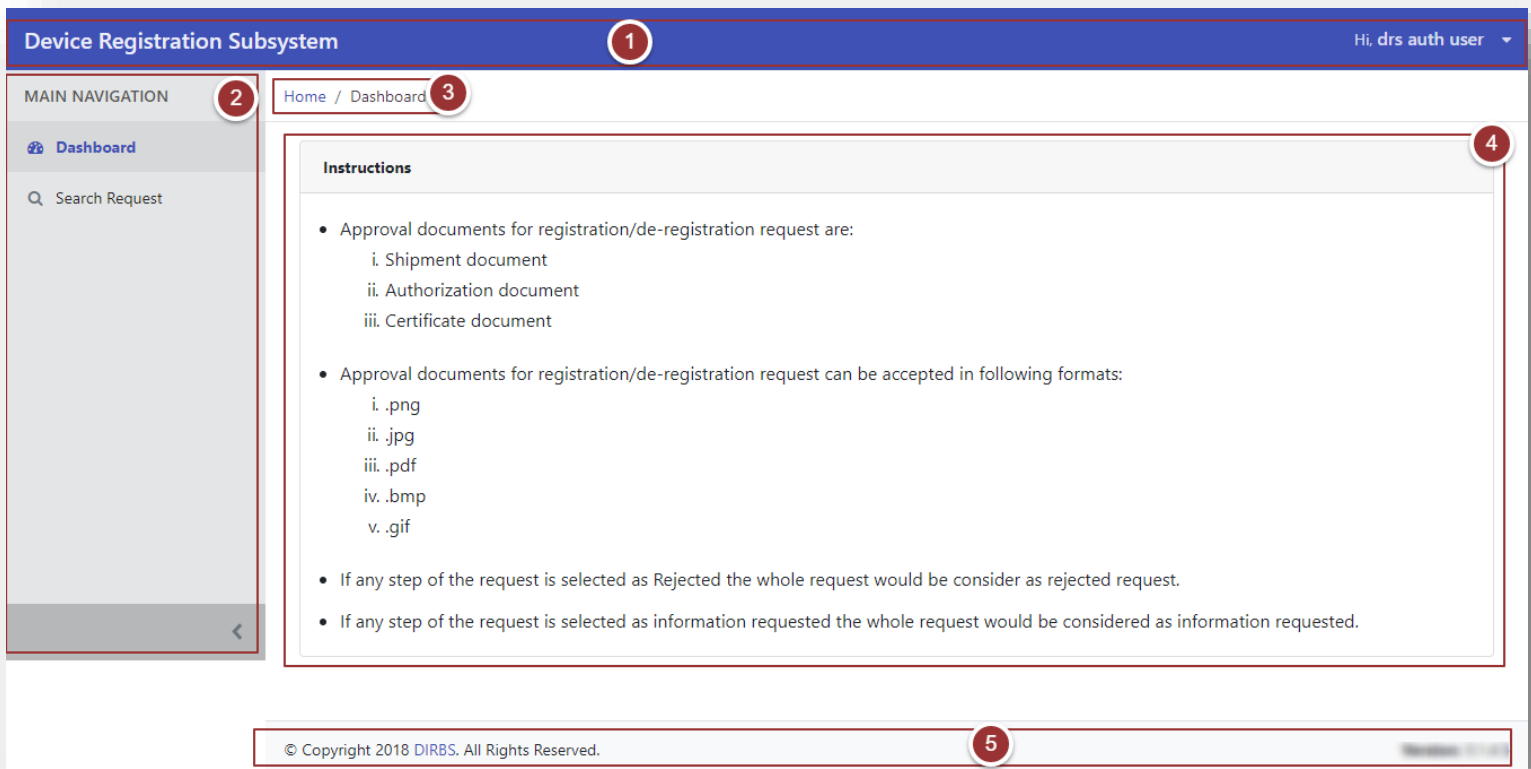
Figure 2-Dashboard Overview

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

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

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
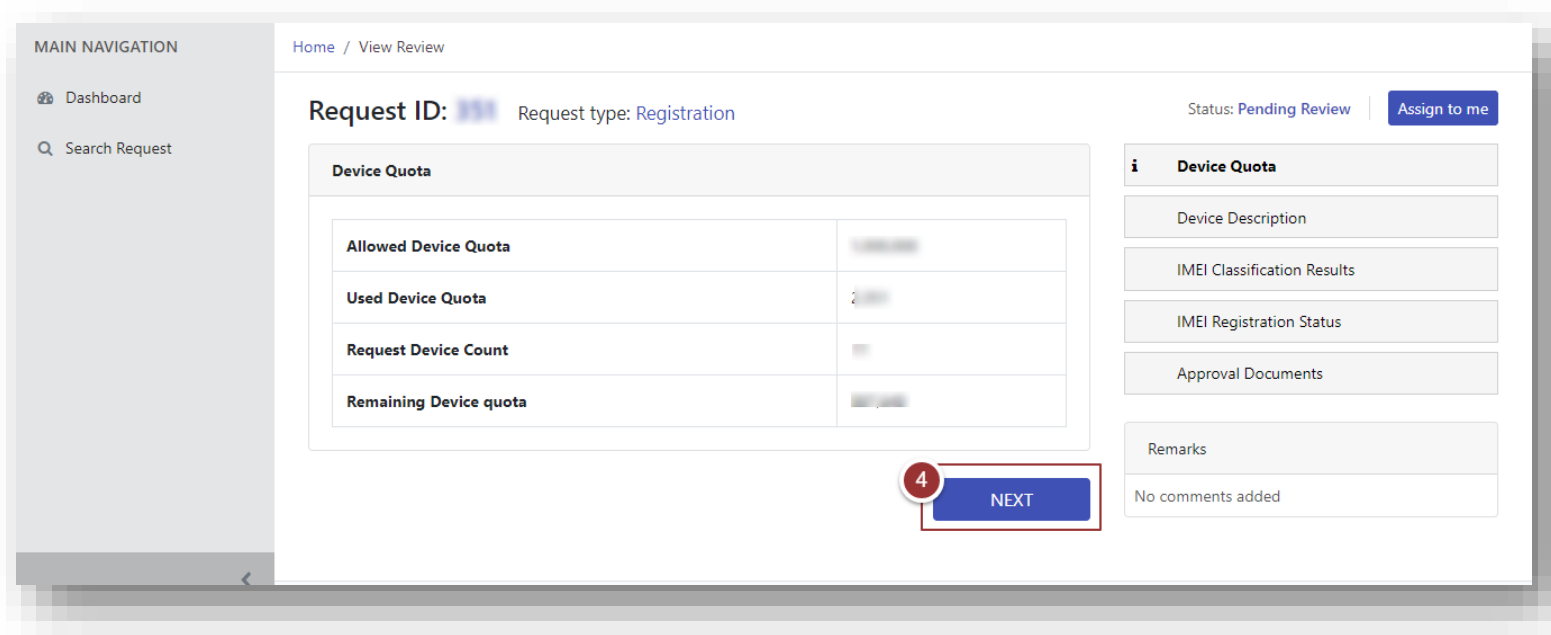
Figure 5-View Request Sections

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

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

Figure 7-Review Status

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

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

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

Figure 9-Search Filters