

How to Find the MCC and MNC from a SIM Card?

TechRounder PDF Edition

Live article: <https://www.techrounder.com/telecom/how-to-find-the-mcc-and-mnc-from-a-sim-card/>

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Quick answer

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When it comes to mobile networks, two important codes play a important role in identifying the country and the specific network operator associated with a SIM card: the Mobile Country Code (MCC) and the Mobile Network Code (MNC). Understanding how to find these codes can be beneficial for various reasons, such as troubleshooting network issues, unlocking a mobile device, or simply gaining knowledge about your mobile service provider. In this comprehensive article, we will examine into the details of MCC and MNC, explain their significance, and provide step-by-step instructions on how to retrieve these codes from your SIM card.

What are MCC and MNC?

Before we dive into the process of finding the MCC and MNC, let's first understand what these codes represent and why they are important. Also read: [List of MCC and MNC Codes for Indian Mobile Operators](#)

Mobile Country Code (MCC)

The Mobile Country Code (MCC) is a three-digit code that uniquely identifies the country of the mobile network operator. It is part of the International Mobile Subscriber Identity (IMSI) number, which is stored on the SIM card. The MCC is assigned by the International Telecommunication Union (ITU) and follows a standardized format. For example, the MCC for the United States is 310, while the MCC for India is 404.

Mobile Network Code (MNC)

The Mobile Network Code (MNC) is a two or three-digit code that identifies the specific mobile network operator within a country. It is used in combination with the MCC to create a unique identifier for each mobile network. The MNC is assigned by the respective country's telecommunications regulatory authority. For instance, in the United States, Verizon Wireless has an MNC of 012, while AT&T has an MNC of 410.

Importance of MCC and MNC

The combination of MCC and MNC provides a unique identifier for a mobile network operator in a specific country. This information is important for several reasons:

1. **Network Identification:** The MCC and MNC help identify the mobile network operator associated with a SIM card. This information is essential for network-related tasks, such as roaming, billing, and troubleshooting.

2. Device Unlocking: Some mobile devices, particularly those purchased from a specific carrier, may be locked to that network. To unlock the device for use with a different network, you may need to provide the MCC and MNC of the original carrier.

3. Service Provisioning: Mobile network operators use the MCC and MNC to provision services and features specific to their network. This includes services like voicemail, SMS, and data connectivity.

4. Roaming: When you travel to a different country, your mobile device relies on the MCC and MNC to identify and connect to a compatible network for roaming services.

Now that we understand the significance of MCC and MNC, start with the various methods to find these codes from your SIM card.

Method 1: Using the SIM Card Information Menu

Most modern mobile devices have a built-in feature that allows you to access SIM card information directly from the device's settings menu. Here's how you can find the MCC and MNC using this method:

1. Go to your device's "Settings" app.
2. Look for an option related to "About phone," "About device," or similar terminology.
3. Scroll down and find the "Status" or "SIM status" section.
4. Tap on "SIM status" or "IMEI information."
5. Look for the "IMSI" (International Mobile Subscriber Identity) number.
6. The first three digits of the IMSI represent the MCC, and the next two or three digits represent the MNC. For example, if the IMSI number is 404123456789012, the MCC would be 404 (India), and the MNC would be 12 (indicating a specific mobile network operator in India).

Method 2: Using USSD Codes

USSD (Unstructured Supplementary Service Data) codes are special short codes that you can dial on your mobile device to access various services or information. Some mobile network operators provide USSD codes specifically for retrieving the MCC and MNC. Here's how you can use USSD codes to find these codes:

1. Open the dialer app on your mobile device.
2. Dial one of the following USSD codes:
 - `*#*#4636#*#*` (Android devices)
 - `*3001#12345#*` (iOS devices)
3. The USSD code will open a hidden menu or information screen.
4. Look for the "Phone information," "Network information," or similar option.
5. Tap on the relevant option to view the details.
6. The MCC and MNC should be displayed along with other network-related information.

Note that the availability and specific USSD codes may vary depending on your mobile network operator and device model. If the above codes don't work, you can try searching online for USSD codes specific to your operator.

Method 3: Checking the SIM Card Packaging

If you still have the original packaging or documentation that came with your SIM card, you may be able to find the MCC and MNC printed on it. SIM card providers often include this information for reference purposes. Look for a section that mentions "MCC" or "MNC" along with the corresponding codes.

Method 4: Contacting Your Mobile Network Operator

If you are unable to find the MCC and MNC using the above methods, you can always reach out to your mobile network operator's customer support for assistance. They should be able to provide you with the necessary information based on your SIM card details. When contacting customer support, make sure to have your SIM card number or the IMSI number handy, as they may require it to identify your specific SIM card and provide accurate information.

Conclusion

Finding the MCC and MNC from your SIM card is a straightforward process that can be done using various methods. Whether you access the information through your device's settings menu, use USSD codes, check the SIM card packaging, or contact your mobile network operator, obtaining these codes is relatively simple. Understanding the MCC and MNC is important for several purposes, such as network identification, device unlocking, service provisioning, and roaming. By knowing how to retrieve these codes, you can troubleshoot network-related issues, unlock your mobile device for use with a different network, or simply gain a better understanding of your mobile service provider. Remember, the specific steps and availability of certain methods may vary depending on your device model, mobile network operator, and country. If you encounter any difficulties or have further questions, don't hesitate to reach out to your mobile network operator's customer support for assistance. In conclusion, being able to find the MCC and MNC from your SIM card is a valuable skill that can come in handy in various situations. By following the methods outlined in this article, you should be able to retrieve these codes easily and use them for your specific needs.