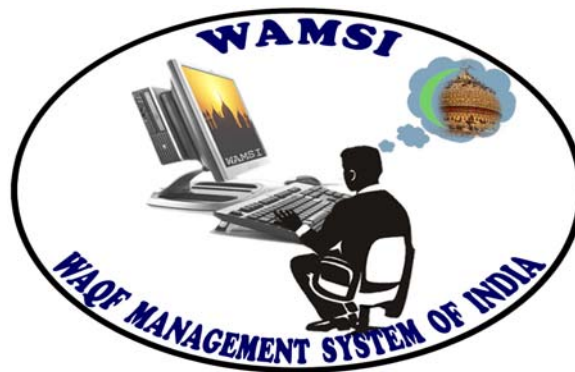


**Guidelines for the Usage  
Of  
File Security Code Checking Utility  
(SCU)**



Ministry of Minorities Affairs Informatics Division  
National Informatics Centre (HQ), New Delhi  
Government of India

**Guidelines for the Usage**  
**of**  
**File Security Code Checking Utility**  
**(SCU)**

**NIC-MoMA-WAMSI-DMS-SCU-SWv1.0-DOCv1.0.0**

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Director General, National Informatics Centre, New Delhi

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**Amendment Log**

<b>Version No.</b>	<b>Date</b>	<b>Change Number</b>	<b>Brief Description</b>	<b>Section Change</b>
<b>1.0</b>	01-May-2011		Initial SCU Usage Guidelines	

## Table of Contents

<a href="#"><u>Brief Introduction</u></a> .....	5
<a href="#"><u>Guidelines for Using SCU</u></a> .....	5

## Brief Introduction

**File Security Code Checking Utility** hereby referred in as **SCU** has been devised to check any alteration/modifications/changes in the content of the scanned files stored in WAMSI-DMS.

**WAMSI-DMS** always generates a File Security Code for all the scanned files it contains. This File Security Code is a string of letters and numbers. In order to verify the content of two files (one from WAMSI-DMS and another from other source), their File Security Codes are matched. If the two files come out with the same File Security Codes, then the files are exactly same. Therefore, File Security Code acts like a "fingerprints" to verify whether the file's content got altered/Modified/changed or not.

Technically, A File security Code is a MD5 Code, which consist of a 32-digit hexadecimal number and it looks like as:

**e4d909c290d0fb1ca068ffaddf22cbd0**

This code is unique for every file irrespective of file name, size and type, which means the two files with different content but with the same name, size and type will not have the same MD5 codes. Therefore, SCU is used to identify the uniqueness of a file.

### **Guidelines for Running SCU Utility**

#### **1. Type of Documents to be Checked on SCU Utility**

All types are applicable i.e. User can check all type of files e.g. Doc, PDF, Exe etc.

#### **2. Pre-requisites for the Installation of - File Security Code Checking Utility (SCU)**

**2.1.** Windows operating System (e.g. windows XP/windows 7)

**2.2.** jre 1.6

#### **3. Run SCU Utility**

**3.1.** Double click on Waqf SCU setup file provided by NIC PMU(Waqf)

**3.2.** Following form will be displayed (Test Data is shown for reference)

#### 4. Procedure to check the uniqueness of files in SCU Utility

**4.1.** Browse First File & generate the file security code for this file after clicking on 'Generate Security Code' Button.

(Here we assume that First File is a copy of original file & Second File is original File therefore First File needs to be compared with the Second File & check whether any modification in the content has been done)

**4.2.** Now the User needs to click the "Compare" Button in order to compare the Security Code of the First File to that of the Second File

(All the fields marked as \* are mandatory)

**4.3.** On clicking, User will see two options for comparison. One is compare *with file* and second one is compare *with security code*.

The screenshot shows the 'File Security Code Checking Utility' interface. At the top left is the WAMSI logo. The title is 'Waqf Management System of India' with the version 'WAMSI DMS-SCU Version 1.0 Release May 01,2011' and the text 'An e-Governance Initiative under the aegis of Ministry of Minority Affairs, Govt. of India'. The main heading is 'File Security Code Checking Utility - To Check the Digital Modification of the File'. Below this, there is a section 'Select a File (to be Checked) for Security Code'. It contains a 'File Name' field with the text 'D:\NAL\_DATA\DCF\_07FEB11\HRKK0951\HRKK0951\_GZ.pdf', a 'Browse' button, and a 'Generate Security Code' button. Below the file name field, the security code 'a2ff2b6d0a9a96ad2235e25b72bf34a9' is displayed. Underneath, there are two radio buttons: 'Compare With File' (selected) and 'Compare With Security Code'. Below the radio buttons is a 'Command' section with 'Compare', 'Clear', and 'Exit' buttons. Two arrows point from the 'Compare With File' radio button to the 'Compare' button in the 'Command' section.

**4.3.1. Option 1:** If user click “*with file*” option then user will have to browse the original file and generate the security code

The screenshot shows the 'File Security Code Checking Utility' interface. At the top left is the WAMSI logo. The title is 'Waqf Management System of India' with the version 'WAMSI DMS-SCU Version 1.0 Release May 01,2011' and the text 'An e-Governance Initiative under the aegis of Ministry of Minority Affairs, Govt. of India'. The main heading is 'File Security Code Checking Utility - To Check the Digital Modification of the File'. Below this, there is a section 'Select a File (to be Checked) for Security Code'. It contains a 'File Name' field with the text 'D:\NAL\_DATA\DCF\_07FEB11\HRKK0951\HRKK0951\_GZ.pdf', a 'Browse' button, and a 'Generate Security Code' button. Below the file name field, the security code 'a2ff2b6d0a9a96ad2235e25b72bf34a9' is displayed. Below this, there is a section 'Select the Original File for Generating Security Code'. It contains a 'File Name' field with the text 'D:\NAL\_DATA\DCF\_07FEB11\HRKK0951\HRKK0951\_GZ.pdf', a 'Browse' button, and a 'Generate Security Code' button. Below the file name field, the security code 'a2ff2b6d0a9a96ad2235e25b72bf34a9' is displayed. At the bottom, there is a 'Command' section with 'Match', 'Clear', and 'Exit' buttons.

**4.3.2.** Click the “*Match*” button, to know the matching result whether the two security code matches or not.

**WAMSI**  
FILE MANAGEMENT SYSTEM OF INDIA

## Waqf Management System of India

WAMSI DMS-SCU Version 1.0 Release May 01,2011  
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### File Security Code Checking Utility - To Check the Digital Modification of the File

Select a File (to be Checked) for Security Code

File Name \* D:\NAL\_DATA\DCF\_07FEB11\HRKK0951\HRKK0951\_GZ.pdf

Message  
Security Code Matched Successfully

Select the Original File for

File Name \* D:\NAL\_DATA\DCF\_07FEB11\HRKK0951\HRKK0951\_GZ.pdf

Command

**4.3.3. Option 2:** if user wants to match the security code with other file security code directly then user have to choose the second option i.e. “with security code”. In this case User has to enter Original File Security Code Value taken from WAMSI-DMS & then directly match the file with generated security code from First File.

**WAMSI**  
FILE MANAGEMENT SYSTEM OF INDIA

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### File Security Code Checking Utility - To Check the Digital Modification of the File

Select a File (to be Checked) for Security Code

File Name \* D:\NAL\_DATA\DCF\_07FEB11\HRKK0951\HRKK0951\_GZ.pdf

2f2b6d0a9a96ad2235e25b72bf34a9

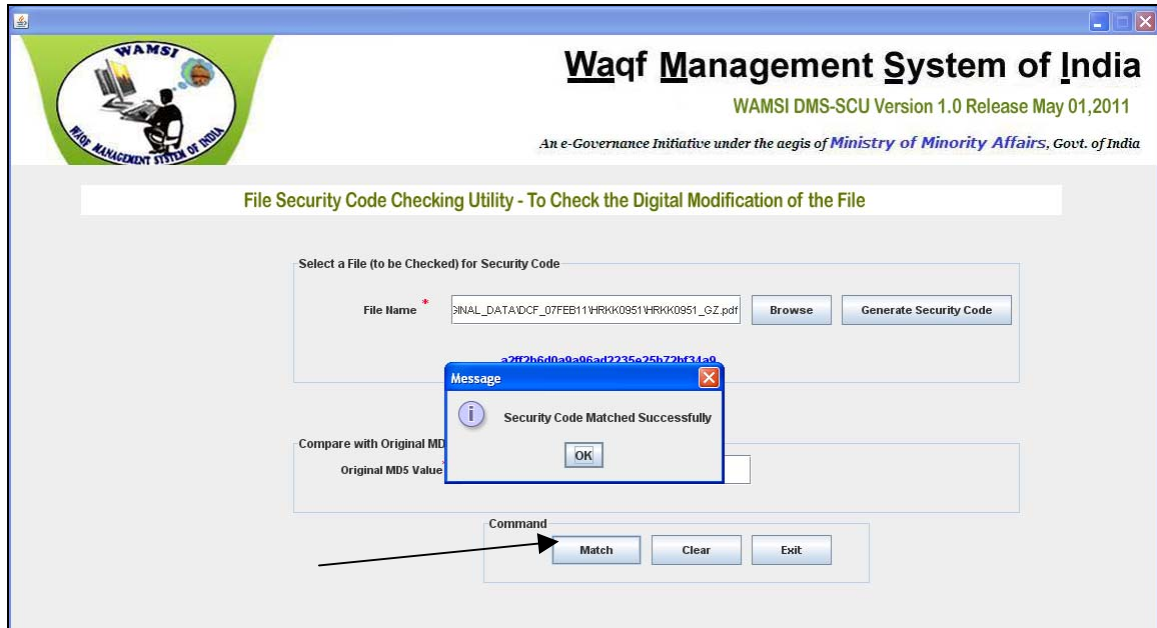
Compare with Original MD5 Checksum value

Original MD5 Value \* a2f2b6d0a9a96ad2235e25b72bf34a9

Command



4.3.4. Click the “Match” button, to know the matching result whether the two security code matches or not.



The Message Displays the Match or Mismatch of the two Files.

For any suggestion to improve the content of this Document, please write to:  
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