

ISO/IEC JTC1/SC2/WG2/IRG

Ideographic Research Group (IRG)

Source:	Macao Special Administrative Region of the People's Republic of China
Meeting:	IRG Meeting No. 64, Online Meeting
Title:	Activity Report of the Macao Special Administrative Region
Status:	Member Submission

1. Following IRG#63, the Macao Supplementary Character Set (MSCS) remains unchanged with no new additions. The current MSCS consists of 443 characters, comprising 427 Chinese characters and 16 symbols. These characters are either encoded in Unicode Version 15.0 or registered as variants in the 2020-11-06 version of the Ideographic Variation Database (IVD).
2. The Unification Framework of Chinese Characters Encoding for the Information Systems of Macao SAR serves as the data exchange encoding standard among public departments, and also between public departments and organizations (both local and overseas). More detailed information of the Unification Framework can be found in the MSARG website:
https://ga.gov.mo/macao-ga-portal/zh_hant/standard/dagepage_detail/article/chncode-extdoc.html.

3. Following a suggestion from an IRG member regarding a character submission using Macao's *Silabário Codificado de Romanização do Cantonense* 《密碼及廣州音譯音之字音表》 as evidence, MSARG has reviewed the above publication for potential character submissions. After reviewing 18 characters with glyph differences from Unicode, MSARG decided **not** to include those characters in MSCS due to lack of circulation evidence in Macao SAR and they are unifiable with existing encoded characters according to the Unifiable Component Variations principle of ISO/IEC 10646.
4. Based on the feedback in IRG#63, MSARG is currently reviewing the Cangjie and Simplified Cangjie input methods of MSCS characters for potential updates.
5. Following IRG#63, Microsoft has added support for MSCS by including MingLiU_MSCS and MingLiU_MSCS-ExtB fonts in Windows 11 (ver 24H2). The current status of major vendor support is as follows:

	Systems	Fonts	Input Methods (Cangjie)
1.	iOS	Supported	
2.	Android	In progress	Supported
3.	Windows	Supported	In progress
4.	Alibaba Cloud	In progress	
5.	HarmonyOS Next	In progress	

6. As MSARG is actively promoting the adoption of the “Macao One Account (一戶通)”, “Business and Associations Platform (商社通)” and “Government Affairs (公務通)” mobile apps and website to enhance electronic public services, all these applications involve the use of MSCS characters. Therefore, it is important for the major mobile and system vendors to support MSCS standard. MSARG continues to work hard with major vendors for the MSCS support.
7. In order to facilitate the usage of MSCS standard, MSARG is currently developing an open-source font named “Hei_MSCS” with SIL Open Font License. This Heiti (黑體) style font contains all 443 characters from MSCS-2022 and is now undergoing testing process. For IRG members who are interested in testing this font, please download a trial version at:
https://ga.gov.mo/macao-ga-portal/_spaces/DAGE/2025/02/Hei_MSCS.ttf.
8. MSARG continues to support the ISO/IEC 10646 standard, IRG and Unicode Consortium. Any queries about the Framework and MSCS, please contact our consultant team at chncode.sec@safp.gov.mo. We greatly appreciate the support from IRG members and the Unicode Consortium.

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