	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. 63, Seoul, Republic of Korea
Title:	**Activity Report of the Macao Special Administrative Region**
Status:	Member Submission

1. Following IRG#62, the Macao Supplementary Character Set (MSCS) remains unchanged with no new additions.   The current MSCS consists of 443 characters, comprising of 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 was released in March 2021.   Based on the Unicode standard and MSCS, this framework is the standard for data exchange encoding among public departments in Macao SAR. MSARG has recently updated "MSCS - 2020" to "MSCS - 2022", to ensure that all parties have the most up-to-date information and facilitate effective implementation across various systems.   IRG members are encouraged to visit the MSARG website* for more detailed information

about the framework.

* https://ga.gov.mo/macao-ga-portal/zh_hant/standard/dagepage_detail/article/chncode-extdoc.html

3. MSARG is actively promoting the adoption of the "Macao One Account (一戶通)", "Business and Associations Platform (商社通)" and "Assuntos Governamentais (公務通)" mobile apps and websites to enhance public and internal electronic services.   All these applications involve MSCS characters.   Therefore, it is crucial for major mobile and computer system vendors to support MSCS standard.

4. MSARG has been maintaining communication with major system vendors, such as Apple, Google, Microsoft, Alibaba and Huawei, to support MSCS characters in fonts and input methods.   We have got positive progress as follows up to this moment:

	Systems	Fonts	Input Methods (Cangjie)
1.	iOS	Supported	Supported
2.	Android	In progress	Supported
3.	Windows	Supported (two individual fonts need to be merged for improved user access)	In progress
4.	Alibaba Cloud	In progress	
5.	HarmonyOS Next	In progress	

MSARG greatly appreciates Apple to take the lead in supporting MSCS standard in iOS system, and continues to encourage other vendors to support MSCS standard in the near future.

5. In order to further promote the adoption of MSCS standard, MSARG is currently developing a MSCS font (with SIL Open Font License) for distributing the font for public use.   Any interested parties, such as public departments, business organizations, system vendors and developers, are welcome to freely modify and use this MSCS font in their applications in the future.

6. 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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