

# United States – Japan Technical Working Group (TWG) Statement

## 1. BACKGROUND

The United States (US) and Japan have worked cooperatively on the Global Positioning System (GPS) and Quasi Zenith Satellite System (QZSS) since the 1998 Clinton-Obuchi Statement. Much cooperative work has been accomplished through the GPS-QZSS Technical Working Group (TWG), which is tasked to ensure GPS and QZSS compatibility and interoperability.

In order to better serve the GPS and QZSS commercial receiver manufacturing market, GPS and QZSS have agreed to transmit nearly identical L1 C/A, L1C, L2C, and L5 signals. The purpose of this TWG statement is to document the cooperation, control, and publication of the L1 C/A, L1C, L2C, and L5 GPS and QZSS signal definitions.

## 2. GPS AND QZSS L1C IS COORDINATION, CONFIGURATION, AND CONTROL

IS-GPS-800, IS-GPS-705, and IS-GPS-200 serve as the GPS L1 C/A, L1C, L5, and L2C signal specifications and baseline documents for the QZSS L1 C/A, L1C, L2C, and L5 signals respectively. The GPS Interface Specifications (IS) will be controlled and managed through the GPS Public Interface Control Working Group (ICWG), in which participation is encouraged from the worldwide GPS community, to include Japanese commercial and government parties. An additional document, IS-QZSS identifies specific L1 C/A, L1C, L2C, and L5 QZSS characteristics that are not included in the IS-GPS-800, IS-GPS-705, and IS-GPS-200 baseline document. IS-QZSS is controlled and managed by Japan.

Should either the GPS or QZSS programs consider modifying their signal specifications, notification of such modifications is implemented through either US-Japan Expert Working Group (EWG) or JAXA-GPS Systems Wing channels as soon as possible.

## 3. CONCLUSION

As Position, Navigation, and Timing (PNT) service providers, GPS and QZSS share the responsibility to provide the commercial PNT market with compatible, interoperable, and easy-to-use signal specifications. GPS and QZSS have succeeded in developing a joint L1C signal and will continue this success by creating and coordinating complimentary L1C ISs.

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Chief, GPS Cell  
Secretary of the Air Force (SAF)/USA

Date 24 May 2007

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Senior Officer for Satellite Development Program  
Ministry of Internal Affairs and Communications

Date 24 May 2007