RT-WG Memberlist
December 3rd, 2020

Active Working Group Members		
Name	**Affiliation**	**IGS Function**
Peter Neumaier	BKG	
Andrea Stürze	BKG	
Wolfgang Söhne	BKG	
Erwin Wiesensarter	BKG	
Michael Moore	GA	
Ryan Ruddick	GA	
Loukis Agrotis	ESA/ESOC	RT-WG ACC
André Hauschild	DLR/GSOC	RT-WG Chair
Martin Schmitz	geo++	
Gerhard Wübbbena	geo++	
Jianghui Geng	Wuhan	
Shengfeng Gu	Wuhan	
Jing Guo	Wuhan	
Ningbo Wang	AIR/CAS	
Zishen Li	AIR/CAS	
Wenwu Ding	ICG/CAS	
Baoqi Sun	NTSC/CAS	
Omid Kamali	NRCan	
Catherin Robin	NRCan	
Jason Bond	NRCan	
Stuart Elleson	NRCan	
Reza Ghoddousi-Fard	NRCan	
Pat Michael	CDDIS	
Sandra Blevins	CDDIS	
David Maggert	UNAVCO	
Jan-Peter Weiss	UCAR	
Adam Sunshine	UCAR	
Pavel Vaclavovic	RIGCT	
Alexis Blot	CNES	
Clement Gazzino	CNES	
Denis Laurichesse	CNES	
Maorong Ge	GFZ	
Markus Bradke	GFZ	IC Chair
Laura Martinez Fernandez	GMV	
Guillermo Tobias	GMV	
Lennard Huisman	Geopinie	
Dirk Stöcker	Alberding GmbH	
Nacho Romero	ESA/ESOC	RNX-WG Chair
Ken Harima	RMIT	
Manuel Hernandez Pajares	UPC	
Qi Liu	UPC	
David Roma-Dollase	IEEC	
Andrzej Krankowski	UWM	ION-WG Chair
Adam Fron	UWM	
Artur Oruba	Fugro	
Carine Bruyninx	ROB	
Eric Pottiaux	ROB	

CHARTER IGS RT-WG (update Dec 2020)

The use of real-time data in GNSS processing has gained a significant importance over the last decade. The applications using real-time data cover a wide range from scientific studies to commercial services: RTK and PPP positioning, tsunami or earthquake monitoring, ionospheric delay estimation, time dissemination or GNSS constellation monitoring are only a few examples.

Real-time data streams with GNSS observations and broadcast ephemerides provide the necessary data to enable these various applications. Central servers for data distribution (NTRIP casters) are used to disseminate the data streams to users with low latency. Data formats capable of streaming real-time data are required to transport observations, broadcast ephemerides as well as derived products with low bandwidth requirements.

The IGS through its real-time working group (RTWG) is dedicated to provide open data, open products and open standards for real-time users to the GNSS community. The RTWG aims at maintaining high quality data and providing high precision products that are state-of-the-art. It supports their dissemination by improving existing data formats or by developing new standards. The RTWG provides a forum to discuss the development of new methods and algorithms, for example, to improve the performance of precise point positioning (PPP) techniques in terms of convergence, accuracy and reliability.

The goals of the RTWG are defined as follows:

- Maintain and expand the multi-GNSS real-time reference station network of IGS stations in close cooperation with the Infrastructure Committee and the Network Coordinator
- Monitor and improve the quality of GNSS real-time observations and broadcast ephemerides in cooperation with the RINEX WG and give advice on stream configuration
- Provide precise real-time corrections for orbits, clock, biases and atmospheric delays
- Provide and monitor a combination of correction data streams for a robust and reliable IGS real-time product
- Develop new and improved RT products and work with the RT ACC to transition these products to the Real Time Service (RTS)
- Develop and improve open standards for real-time data and products
- Investigate new streaming technologies
- Provide users access to real-time data from reference stations and correction streams through the internet