

Augmenting Data Exchange Formats for OPUS of the Future

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SUMMARY

The NSRS is built on terrestrial point-to-point angle and distance observations and future versions of OPUS will have the ability to integrate these classical observations. To enable this, NGS is developing a new XML-based file format for uploading GNSS, gravity, leveling, and classical observations to OPUS. This format, the Geodetic Data Exchange (GDX), follows the success of NGS's GNSS Vector Exchange (GVX), an XML-based format for GNSS data. GDX includes fields for point locations, metadata. This talk will share progress on GDX and highlight how classical observations will play a role in OPUS and the modernized NSRS. This includes the role of astronomical observations, including azimuths, and reduction techniques.

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