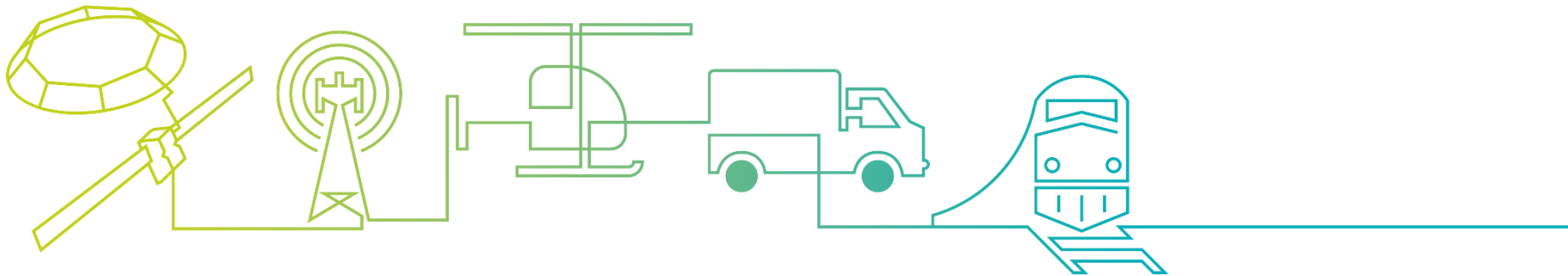


# Ligado Base Station Database Update

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APRIL 21, 2021



## FCC License Condition re the Ligado Base Station Database Requirement

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147. *Database of Base Station Locations.* Consistent with its commitment in the record,<sup>442</sup> Ligado must work with relevant stakeholders, including ASRI, to establish a database available to the affected aviation community and include the base station information at least 30 days before commencing transmission at a base station site. The database must include, at a minimum: (1) location of the proposed base station antenna site (latitude and longitude); (2) base station antenna radiation center height above ground level; (3) base station antenna tilt for both mechanical and electrical tilt; and (4) base station antenna specification, including polarization and pattern. This will ensure that relevant technical parameters are disseminated to the affected aviation community prior to Ligado commencing any ATC operations in this spectrum. Ligado must also update the database to enter the required base station technical parameters for any subsequently activated base station at least 30 days prior to commencing any transmission. In the event that the relevant parties agree to use this database to facilitate the information-sharing requirements adopted in this order for the benefit of affected U.S. government agencies, these requirements will apply with equal force and effect to information provided pursuant to those requirements.

## Ligado Base Station Database Status Update

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- Consistent with the FCC requirements, the database will include the following information (when it is available):
  - Longitude and latitude of each Ligado base station
  - Antenna radiation center height above ground level for each base station
  - Antenna tilt, including both mechanical and electrical tilt
  - Technical specifications of all base station antennas, including polarization and pattern
- To assist with the construction and hosting of the database, Ligado has engaged TeleWorld Solutions, a leading network services and software development provider, as the lead vendor for this project
- Populating the database will not be possible until location and other technical details for our base stations is available, but Ligado has already begun committing resources and establishing network tools to facilitate the sharing of this information
  - Ligado deployment is not anticipated until the second half of 2022
- We welcome inputs from AEEC members now so that the database can be developed in a way that meets the needs of the aviation community; please contact us ASAP if you wish to provide information or make suggestions