

# Binary Protocol Specification

- Proposed Text

<https://www.noaasis.noaa.gov/pdf/docs/TWG2023/20230410%20Binary%20Protocol%20Specification%20V0.8.pdf>

- Current Notional Concept

- NOAA GOES DCS DCP Certification offers additional communication protocols:
  - Compacted Numeric ASCII
  - Compacted Alphanumeric ASCII
  - Compacted Pseudobinary
  - Open Binary
- Compaction Techniques are “IT Transparent”
  - Compaction is done at DCP
  - Extraction is done at Demodulators
  - Resulting message in distribution is identical to non-compacted version.



# Binary Protocol Specification

- Benefits
  - Message transmission time reduction, OR;
  - More message data, OR;
  - *Potentially* more frequency transmissions approved by NOAA
- Impacts
  - Hardware, software, engineering? Appears to be firmware/software only
  - Affect overall DCP design?
  - Additional spectrum usage?
  - When to require or start implementation?
  - Should these simply be options? Or mandated?
  - How will this affect other receive and distribution systems?
    - Tied to Lat / Long position reporting so Binary needs to be considered regardless.



# Binary Protocol Specification

- Demonstration
- Discussion
  - Questions, Concerns, Feedback, Recommendations
  - Request review and comment on the detailed specs.
- Outcomes
  - Decisions to be made
  - Next step

