



NOAA GOES Data Collection System - Standards and Certification Workshop

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**National Environmental
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Service**

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Binary Protocol Specifications

- What is the Concept?
 - Increase the number of protocol options from two (2) to five (5):
 - Open Binary Message Format
 - Compact Pseudo Binary Message Format
 - Compact Numeric ASCII Message Format
 - Compact SHEF Alphanumeric ASCII Message Format
 - Compact Full (Printable) ASCII Message Format
- What Problem is this Solving?
 - New protocols reduce transmission time decreasing susceptibility to RFI, create more space on the spectrum or provide more time for more data
 - All Compact options are “IT Transparent”



Binary Protocol Specification

- How it will work
 - DCP firmware/software can be updated for protocols
 - Users PDT profiles are adjusted for protocols, similar to how they are now
 - Compact message distribution should appear no different
 - Binary message may be ignored by current systems (to be tested)
 - Binary messages would need downstream decoding (to be developed)
- **Demonstration**
- Specification
- Timeline

