

**CoRAL** –

The Constrained RESTful Application Language

draft-hartke-t2trg-coral

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**CoRAL** is a *hypermedia representation format* for the hypermedia model described in draft-hartke-core-apps:

- **Links**

change *application state*.

“{context} has a {link relation type} resource at {target URI}, which has {target attributes}”

- **Forms**

change *resource state*.

“To {form relation type} the {context}, make a {method} request to {target URI}”

**CoRAL** aims to reduce the cost of hypermedia:

- **Reduce size of representations**

- Encode links and forms in a compact, binary format
- Use numbers instead of strings
- Use sensible default values

Most links and forms can be expressed in a few bytes

- **Reduce number of roundtrips**

- Embed a representation of the link target and forms manipulating the link target at the link source

- **Simplify implementations**

- Same option concept as CoAP

This simplifies URI parsing and reference resolution a lot

## **Next steps:**

- Confirm hypermedia model
- Reduce size even further with Golomb-Rice coding
- Specify link navigation & form submission in more detail
- Describe embedding of CoRAL in other documents