

























Core Working Group Meeting Notes (26-July-2018)

Attendees:

Participants (12)

🔍 Type to filter...

TC	Trevor Conn (Host, me)		
t	tonyespy		
AA	Akram Ahmad (Dell)		
BF	Brandon Forster (Dell)		
EC	Eric Cotter		
GG	Gorgi Georgievski		
i	ijohnson		
j	janinezhu		
JW	Jim White (Dell)		
MH	Michael Hall		
SO	Steve Osselton		
TZ	Tingyu Zeng		

Old Business

- Binary Serialization
 - CBOR is the recommendation, vote confirmed by TSC
 - Trevor deliverable – Revise CBOR flow diagram to integrate comments from last week
 - Consider UnitProperty to store MIME type (or BinaryProperty)
 - Extend DeviceResource inside of DeviceProfile
 - Client may not have access to this
 - MIME may not be in the same struct as Readings
 - Mock implementation of Event/Reading containing BLOB data
 - Jim – Translation slide, hand over to DS Group
 - Tony – DeviceResource translation to ValueDescriptor
 - Ingesting video could be multi-part transmitted, requirement that each part is below the 16MB threshold
 - Hitachi confirmed MQTT would be the primary device protocol, but could also be HTTP
 - Article circulated via TSC Core list on Mongo binary support
 - <https://alexmarquardt.com/2017/03/02/trade-offs-to-consider-when-storing-binary-data-in-mongodb/>
- Package restructuring is underway for separation of external/internal models and encapsulation.
 - Core/support services have been moved.
 - Export services still need to be moved.
 - 2-3 weeks to completion (Drasko)
 - Reviewed with Tony last Friday
 - Sent email RE: issues with Mongo coupling in models
 - Due to analysis of Mongo replacement, see email for criteria for replacement driver functionality
 - Evaluate the lift for replacing legacy mgo driver with official MongoDB driver (Trevor – next meeting)

New Business

- Mongo driver
 - The one currently in use is unmaintained
 - <https://godoc.org/gopkg.in/mgo.v2>
 - Should we look at official MongoDB driver for Go?
 - <https://github.com/mongodb/mongo-go-driver>
 - Unfortunately, Alpha 9 ☹

- Is Mongo even in our future for reference implementation? If not, what's the alternative?
- Concern RE: AGPL license of MongoDB platform itself
 - Hitachi brought up this concern
 - Janine on the call, clarified that they could not ship hardware with Mongo installed. If hosted on cloud, that's fine.
- Consensus is that we need to re-evaluate Mongo's part in implementation and do another analysis of a replacement.
- FYI – First draft of configuration V2 structure is done. Present to community for comment.
 - Vault/Consul interaction and handling of secrets is an open question
 - OK – Looks good
- From Steve Oss – JSON vs Text in API Response
 - Negative impacts on blackbox testing
 - Some endpoints just return words (like “pong”)
 - Make these into simple types?
 - In cases where “true” / “false” are returned, can we utilize HTTP status codes instead?
 - Agreement all around