

Status-Talk Jose Irigon

Title: Role-based Routing Adaptation in Terrestrial Use-Cases

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Location: Tagungshotel Seehotel Großräschen, Seestraße 88, 01983 Großräschen

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Abstract: Disruption Tolerant Network (DTN) allows communication in scenarios that lack end-to-end connectivity. The integration of new routing algorithms in existing DTN frameworks is challenging due to their inflexibility. Therefore, most proposed routing algorithms end up not being implemented.

Another issue arises from the fact that a precise understanding of the context is a crucial element towards right routing decisions and runtime adaptation. However, most routing algorithms disregard contextual information. The challenges mentioned above lead to slow adoption and standardization of DTN for terrestrial use-cases.

This talk provides an overview about information exchange and adaptive algorithms in DTN. Additionally, it investigates how to provide flexibility to the routing module using the concept of roles, allowing runtime adaptation at one hand and simplifying the integration of new routing algorithms on the other.