Automatic Lightpath Provisioning for Authorised Applications with TBN

Binding applications to lightpaths: magic-carpet

1. User registers every application type which requires a lightpath onto carpet, e.g., application name | port numbers;
2. CarpetD requests a lightpath for one application (as part of the registration process). It receives a pair (GRI, Key) from NSP;
3. CarpetD prepares the Magic-carpet for the specific application;
4. The user starts the application on the Magic-carpet environment;
5. When the application opens a socket and the carpet detects a bind to a lightpath, then the TB (token builder) module computes and inserts a Token into each outgoing packet.

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