

# Navigation

Find a participant. Select a trajectory. Reach the intended context.

## 01 Choose what to find

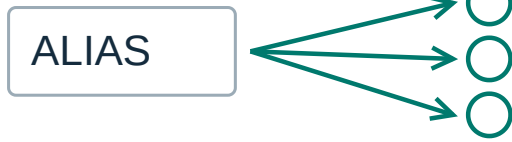
### IDENTITY / SCIR



Exact participant reference.  
Key control is proved on connection.

SCIR also defines MULTICAST and GROUPOCAST reference classes.

### ALIAS



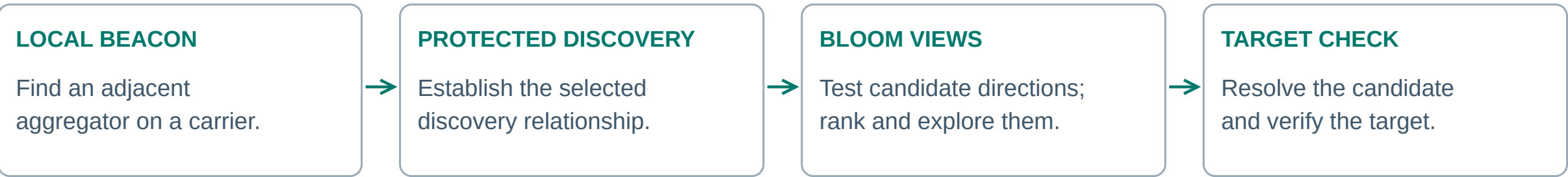
One reference; independent participants.

### SIMILARITY / LSH



Similarity finds candidates.  
The application checks the match.

## 02 Discover candidate directions

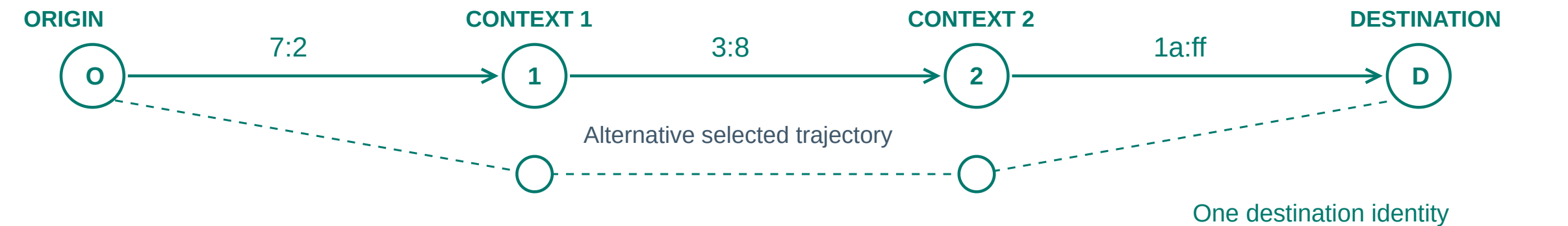


One unified directional Bloom view can contain admitted identity, ALIAS and LSH indices.  
A positive selects a candidate direction; exact matching and proof follow.

## 03 Build a relative topological path

**TPA** 7:2/3:8/1a:ff

Each pair selects interface:slot in the context reached by the previous pair.



Client-selected paths · local interface:slot selectors · receiver-local ingress  
Several paths may reach one identity. Cached contexts must match their incarnation.

## 04 Read the representation

### SCIR / CANONICAL BINARY REFERENCE

|                                                          |                                                          |                                                             |
|----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------|
| <b>reference_header</b><br>1 octet · class in low 2 bits | <b>reference_suite</b><br>2 octets · unsigned big-endian | <b>identifier</b><br>L octets · length defined by the suite |
|----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------|

TPA text uses lowercase hexadecimal interface:slot pairs separated by “/”.  
It contains at least one pair. Local zero-hop use is a separate API operation.  
TPA text describes a path; the selected realization supplies its transport encoding.

### CONTINUE WITH THE CONNECTION ATLAS

Discovery uses protected connections; a selected path supports the next connection attempt.