

Statically configure external facing and internal facing ports

- Prevent spoofing and leaking intradomain routes
 - BGP is statically configured
- Flood LSA only on internal facing ports

Calculate routing tables at controller

- Routing table for SIDs
 - Each router knows how to route to the controller/servers
- Routing table for ADs (IBGP)
 - Each router knows how to route to external AD
- Routing table for HIDs (IGP)
 - Each router knows how to route to hosts

SCION routing with XIA addressing

- Path server, beacon server, etc
 - Route to server in adjacent AD with DAG: source -> AD -> SID(server)

xrouted uses broadcast dag for sending control messages.

- DAG: source -> Bcast HID -> SID(xroute)
- To send specifically to internal facing neighbors, we would need to Xsendto() specifically to neighbor HID dags.
 - DAG: source -> neighbor HID -> SID(xroute)
- xrouted would need to have information on which ports are external facing.
 - These should ideally be statically configured.
 - As a stop gap arrangement, we could use hello messages to dynamically learn ports which are external facing.