

BGP Routing Policy: AS-17290 (Austin Hadley)

This document outlines the strict BGP operational and peering requirements for AS-17290, ensuring high standards for route hygiene, security, and validation for all inbound and outbound traffic.

1. Core Identification and Scope

- **Autonomous System Number (ASN):** AS-17290
- **Organizational Name:** Austin Hadley
- **Official AS-SET Identifier:** AS-17290:AS-AUSTIN-HADLEY

Scope: The **AS-SET** (AS-17290:AS-AUSTIN-HADLEY) is comprehensive and **MUST** include all immediate and downstream customer ASNs. This AS-SET defines the permissible AS-Paths for routes associated with AS-17290's network structure.

2. Inbound Route Acceptance Criteria (Filter Policy)

AS-17290 will only accept routes from established peers or transit providers that strictly adhere to the following prefix validation requirements:

A. IP Prefix Origin Validation

All advertised IP prefixes **MUST** be verifiable via one of the methods below. Routes failing all validation checks will be automatically filtered and rejected.

Requirement	Description
RPKI Valid	The prefix origin is verifiably covered by a valid Resource Public Key Infrastructure (RPKI) Route Origin Authorization (ROA).
IRR Valid	The prefix and its originating ASN are registered and verifiable within a recognized Internet Routing Registry (IRR) database.
LOA Associated	A valid Letter of Authority (LOA) is on file with AS-17290, specifically authorizing the advertised route.

3. Peering and Transit Onboarding Requirements

AS-17290 welcomes requests for both **Mutual Peering** (settlement-free) and **Transit Peering** (paid service) under the following mandatory conditions. These requirements ensure the security and stability of our routing table and the internet as a whole.

A. Requesting Network Validation (ASN/AS-Path)

The requesting network **MUST** ensure:

1. **ASN and Downstream Vetting:** The primary ASN of the requesting network, along with **ALL** of its downstream customer ASNs, have been properly **validated and vetted** (e.g., proper registration, contact verification, operational competence).
2. **AS-SET Accuracy:** All ASNs involved in the proposed route advertisements are correctly documented within the requesting network's publicly registered **AS-SETs**.

B. Requesting Network Prefix Validation

All IP prefixes announced by the requesting network **MUST** meet the same high standard of validation required for inbound routes to AS-17290. The prefixes **MUST** be:

- **RPKI/IRR Valid**, OR
- Have an **LOA Associated**, OR
- Have been **verified by other mutually agreed-upon means** (e.g., verified through trusted regional Internet Registry documentation or contractual verification).

4. Outbound Route Announcement Policy

AS-17290 will only announce prefixes that it directly originates or those belonging to its validated customers. All announced prefixes will be meticulously maintained with:

- **Accurate IRR Registrations** (Route Objects).
- Valid and up-to-date **RPKI ROAs**.