

## Using Functions for Backbone Congestion Point Classification Scripts

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SRC-ACP provides the following functions to use in backbone congestion point classification scripts:

- `getNicProxy(name)`—Get the NIC proxy defined under the current SRC-ACP configuration group.
  - `name`—The name of the NIC proxy as defined under the SRC-ACP configuration group.
- `nicLookupSingle(name, nicKey, constraints)`—Perform a NIC lookup using the specified NIC key and constraints with the NIC proxy defined under the current SRC-ACP shared configuration group. The NIC key must uniquely identify a NIC value. If more than one result matches the same key, this function will raise the `AmbiguousKeyException` exception.
  - `name`—Name of the NIC proxy.
  - `nicKey`—String used as key for NIC lookup.
  - `constraints (optional)`—Map of NIC constraint information associated with the NIC key.

This function returns the lookup result as `(nicValue, intermediateValues)`, where `intermediateValues` is a map of the intermediate name and value pair.

- `nicLookup(name, nicKey, constraints)`—Perform a NIC lookup using the specified NIC key and constraints for the NIC proxy defined under the current SRC-ACP shared configuration group.
  - `name`—Name of the NIC proxy.
  - `nicKey`—String used as key for NIC lookup.
  - `constraints (optional)`—Map of NIC constraint information associated with the NIC key.

This function returns the lookup result as an array of `(nicValue, intermediateValues)`, where `intermediateValues` is a map of the intermediate name and value pair.

- `nicInvalidateLookup(name, nicKey, nicValue, constraints)`—Used to signal to a NIC proxy that a key/value pair (returned from one of the lookup methods) resulted in a failure when the value was used. If the NIC proxy has this result cached, it will be removed from the cache.
  - `name`—Name of the NIC proxy.
  - `nicKey`—A string used as NIC key that was passed to the previous lookup operation.
  - `nicValue`—The NIC value returned from the previous lookup operation.
  - `constraints(optional)`—Map of NIC constraint information associated with the NIC key.
- `slot(nasPortId)`—Collects the slot number from the `nasPortId` or `interfaceName`.

- `port(nasPortId)`—Collects the port number from the `nasPortId` or `interfaceName`.
- `l2id(nasPortId)`—Collects the layer 2 ID from the `nasPortId` (VLAN id or ATM `vpi.vci`).
- `escape(string)`—Replaces any slash with the escape sequence `\`.