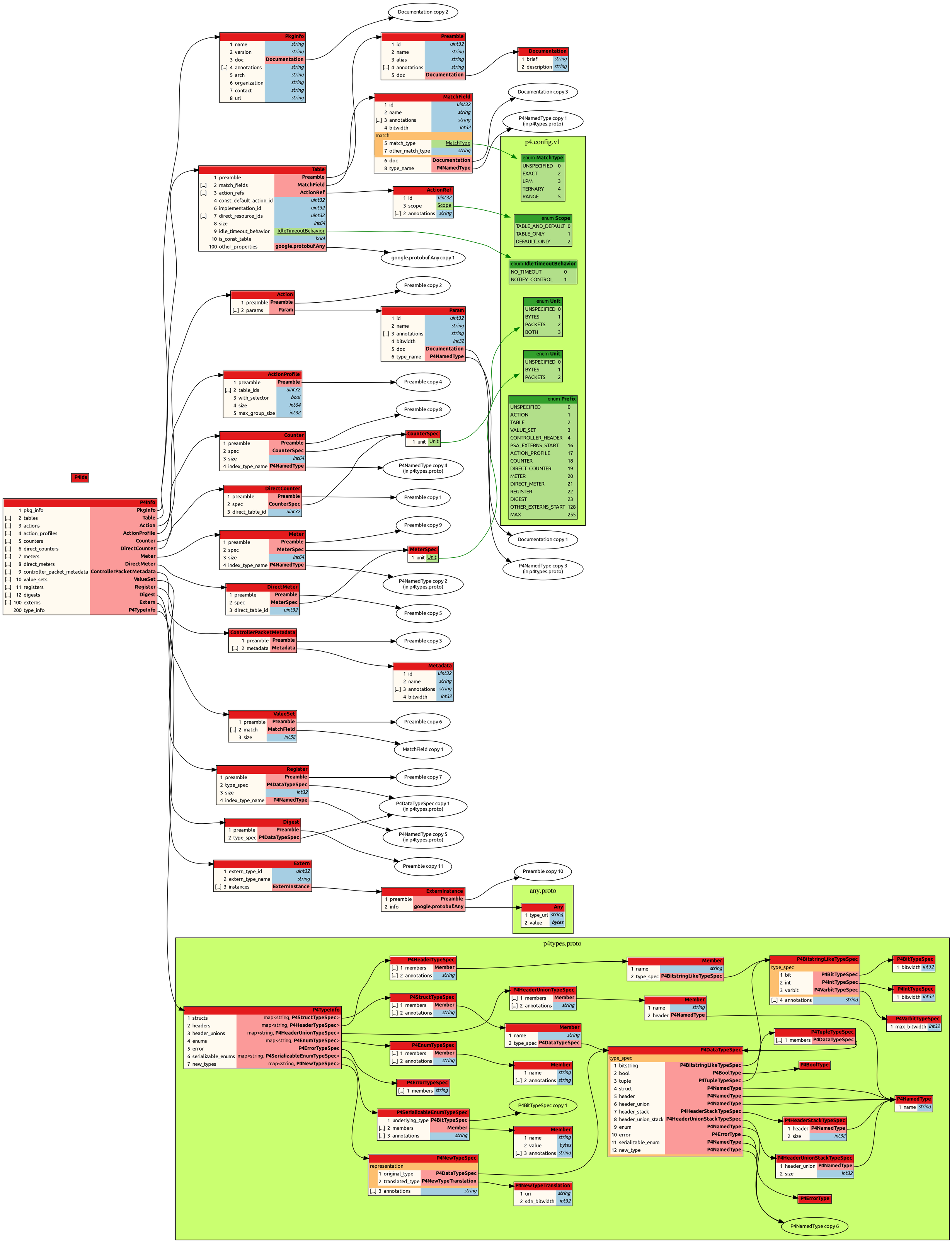
P4Ids
P4Info
1 pkg_info PkgInfo
[...] 2 tables Table
[...] 3 actions Action
[...] 4 action_profiles ActionProfile
[...] 5 counters Counter
[...] 6 direct_counters DirectCounter
[...] 7 meters Meter
[...] 8 direct_meters DirectMeter
[...] 9 controller_packet_metadata ControllerPacketMetadata
[...] 10 value_sets ValueSet
[...] 11 registers Register
[...] 12 digests Digest
[...] 100 externs Extern
200 type_info P4TypeInfo
PkgInfo
1 name string
2 version string
3 doc Documentation
[...] 4 annotations string
5 arch string
6 organization string
7 contact string
8 url string
Documentation copy 2
Table
1 preamble Preamble
[...] 2 match_fields MatchField
[...] 3 action_refs ActionRef
4 const_default_action_id uint32
6 implementation_id uint32
[...] 7 direct_resource_ids uint32
8 size int64
9 idle_timeout_behavior IdleTimeoutBehavior
10 is_const_table bool
100 other_properties google.protobuf.Any
google.protobuf.Any copy 1
Preamble
1 id uint32
2 name string
3 alias string
[...] 4 annotations string
5 doc Documentation
Documentation
1 brief string
2 description string
MatchField
1 id uint32
2 name string
[...] 3 annotations string
4 bitwidth int32
match
5 match_type MatchType
7 other_match_type string
6 doc Documentation
8 type_name P4NamedType
Documentation copy 3
P4NamedType copy 1 (in p4types.proto)
ActionRef
1 id uint32
3 scope Scope
[...] 2 annotations string
Action
1 preamble Preamble
[...] 2 params Param
Preamble copy 2
Param
1 id uint32
2 name string
[...] 3 annotations string
4 bitwidth int32
5 doc Documentation
6 type_name P4NamedType
ActionProfile
1 preamble Preamble
[...] 2 table_ids uint32
3 with_selector bool
4 size int64
5 max_group_size int32
Preamble copy 4
Preamble copy 8
Counter
1 preamble Preamble
2 spec CounterSpec
3 size int64
4 index_type_name P4NamedType
CounterSpec
1 unit Unit
P4NamedType copy 4 (in p4types.proto)
DirectCounter
1 preamble Preamble
2 spec CounterSpec
3 direct_table_id uint32
Preamble copy 1
Preamble copy 9
Meter
1 preamble Preamble
2 spec MeterSpec
3 size int64
4 index_type_name P4NamedType
MeterSpec
1 unit Unit
P4NamedType copy 2 (in p4types.proto)
DirectMeter
1 preamble Preamble
2 spec MeterSpec
3 direct_table_id uint32
Preamble copy 5
ControllerPacketMetadata
1 preamble Preamble
[...] 2 metadata Metadata
Preamble copy 3
Metadata
1 id uint32
2 name string
[...] 3 annotations string
4 bitwidth int32
ValueSet
1 preamble Preamble
[...] 2 match MatchField
3 size int32
Preamble copy 6
MatchField copy 1
Register
1 preamble Preamble
2 type_spec P4DataTypeSpec
3 size int32
4 index_type_name P4NamedType
Preamble copy 7
P4DataTypeSpec copy 1 (in p4types.proto)
Digest
1 preamble Preamble
2 type_spec P4DataTypeSpec
P4NamedType copy 5 (in p4types.proto)
Preamble copy 11
Extern
1 extern_type_id uint32
2 extern_type_name string
[...] 3 instances ExternInstance
ExternInstance
1 preamble Preamble
2 info google.protobuf.Any
Preamble copy 10
any.proto
Any
1 type_url string
2 value bytes
p4.config.v1
enum MatchType
UNSPECIFIED 0
EXACT 2
LPM 3
TERNARY 4
RANGE 5
enum Scope
TABLE_AND_DEFAULT 0
TABLE_ONLY 1
DEFAULT_ONLY 2
enum IdleTimeoutBehavior
NO_TIMEOUT 0
NOTIFY_CONTROL 1
enum Unit
UNSPECIFIED 0
BYTES 1
PACKETS 2
BOTH 3
enum Unit
UNSPECIFIED 0
BYTES 1
PACKETS 2
enum Prefix
UNSPECIFIED 0
ACTION 1
TABLE 2
VALUE_SET 3
CONTROLLER_HEADER 4
PSA_EXTERNS_START 16
ACTION_PROFILE 17
COUNTER 18
DIRECT_COUNTER 19
METER 20
DIRECT_METER 21
REGISTER 22
DIGEST 23
OTHER_EXTERNS_START 128
MAX 255
Documentation copy 1
P4NamedType copy 3 (in p4types.proto)
p4types.proto
P4TypeInfo
1 structs map<string, P4StructTypeSpec>
2 headers map<string, P4HeaderTypeSpec>
3 header_unions map<string, P4HeaderUnionTypeSpec>
4 enums map<string, P4EnumTypeSpec>
5 error P4ErrorTypeSpec
6 serializable_enums map<string, P4SerializableEnumTypeSpec>
7 new_types map<string, P4NewTypeSpec>
P4HeaderTypeSpec
[...] 1 members Member
[...] 2 annotations string
P4StructTypeSpec
[...] 1 members Member
[...] 2 annotations string
P4EnumTypeSpec
[...] 1 members Member
[...] 2 annotations string
P4ErrorTypeSpec
[...] 1 members string
P4SerializableEnumTypeSpec
1 underlying_type P4BitTypeSpec
[...] 2 members Member
[...] 3 annotations string
P4NewTypeSpec
representation
1 original_type P4DataTypeSpec
2 translated_type P4NewTypeTranslation
[...] 3 annotations string
P4HeaderUnionTypeSpec
[...] 1 members Member
[...] 2 annotations string
Member
1 name string
2 type_spec P4DataTypeSpec
Member
1 name string
[...] 2 annotations string
P4BitTypeSpec copy 1
Member
1 name string
2 value bytes
[...] 3 annotations string
P4NewTypeTranslation
1 uri string
2 sdn_bitwidth int32
Member
1 name string
2 type_spec P4BitstringLikeTypeSpec
Member
1 name string
2 header P4NamedType
P4DataTypeSpec
type_spec
1 bitstring P4BitstringLikeTypeSpec
2 bool P4BoolType
3 tuple P4TupleTypeSpec
4 struct P4NamedType
5 header P4NamedType
6 header_union P4NamedType
7 header_stack P4HeaderStackTypeSpec
8 header_union_stack P4HeaderUnionStackTypeSpec
9 enum P4NamedType
10 error P4ErrorType
11 serializable_enum P4NamedType
12 new_type P4NamedType
P4BitstringLikeTypeSpec
type_spec
1 bit P4BitTypeSpec
2 int P4IntTypeSpec
3 varbit P4VarbitTypeSpec
[...] 4 annotations string
P4BitTypeSpec
1 bitwidth int32
P4IntTypeSpec
1 bitwidth int32
P4VarbitTypeSpec
1 max_bitwidth int32
P4TupleTypeSpec
[...] 1 members P4DataTypeSpec
P4BoolType
P4NamedType
1 name string
P4HeaderStackTypeSpec
1 header P4NamedType
2 size int32
P4HeaderUnionStackTypeSpec
1 header_union P4NamedType
2 size int32
P4ErrorType
P4NamedType copy 6

p4.config.v1