```
{
   "name": "DXL_Reservation_Event",
   "version": "3.0",
   "type": "DXL_EVENT",
   "event_type": [
      "FIXED_ADDRESS_IPV4",
      "FIXED_ADDRESS_IPV6"
   ],
   "vendor_identifier": "McAfee",
   "quoting": "ASIS",
   "instance_variables": [
      {
         "name": "DXL_MessageFormat",
         "type": "STRING"
      },
      {
         "name": "OPERATION_TYPES",
         "type": "STRING",
         "value": "insert/modify/delete"
      }
   ],
   "steps": [
      {
         "name": "Debug#0",
         "operation": "NOP",
         "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
      },
      {
         "name": "set time vars",
         "operation": "NOP",
         "body_list": [
            "${XC:COPY:{L:New_Time}:
{E:timestamp}}${XC:FORMAT:TRUNCATE:{L:New_Time}:{16t}}"
         ]
      },
      {
         "name": "Set Old_Time",
         "operation": "CONDITION",
         "condition": {
            "condition_type": "OR",
```

```
            "statements": [
               {
                  "left": "${E:A:values{extattrs}{DXL_LastEventSentAt}
{value}}",
                  "op": "==",
                  "right": ""
               }
            ],
            "eval": "${XC:ASSIGN:{L:Old_Time}:{S:}}",
            "else_eval": "${XC:COPY:{L:Old_Time}:{E:values{extattrs}
{DXL_LastEventSentAt}{value}}}}${XC:FORMAT:TRUNCATE:
{L:Old_Time}:{16t}}"
         }
      },
      {
         "name": "Debug#1",
         "operation": "NOP",
         "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
      },
      {
         "name": "STOP if modified in the last second",
         "operation": "CONDITION",
         "condition": {
            "condition_type": "OR",
            "statements": [
               {
                  "left": "${L:A:New_Time}",
                  "op": "==",
                  "right": "${L:A:Old_Time}"
               }
            ],
            "stop": true
         }
      },
      {
         "name": "Debug#2",
         "operation": "NOP",
         "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
```

```
},
{
    "name": "STOP if sync not requested",
    "operation": "CONDITION",
    "condition": {
        "condition_type": "OR",
        "statements": [
            {
                "left": "${E:A:values{extattrs}{DXL_Sync}{value}}",
                "op": "==",
                "right": ""
            },
            {
                "left": "${E:A:values{extattrs}{DXL_Sync}{value}}",
                "op": "==",
                "right": "false"
            }
        ],
        "stop": true
    }
},
{
    "name": "init_internal_data",
    "operation": "VARIABLEOP",
    "variable_ops": [
        {
            "operation": "ASSIGN",
            "type": "DICTIONARY",
            "destination": "L:internal",
            "keys": [
                "analyzer_ipv4",
                "analyzer_ipv6",
                "source_ipv4",
                "source_ipv6",
                "target_ipv4",
                "target_ipv6",
                "severity"
            ],
            "values": [
                "",
                "",
                "",
```

```
                    "",
                    "",
                    "",
                    "7"
                ]
            }
        ]
    },
    {
        "name": "check what operation types are allowed",
        "operation": "CONDITION",
        "condition": {
            "condition_type": "AND",
            "statements": [
                {
                    "left": "${I::OPERATION_TYPES}",
                    "op": "!~",
                    "right": "((?i).*${E::operation_type}.*)"
                }
            ],
            "next": "Fin"
        }
    },
    {
        "name": "is_analyzer_source_FIXED_ipv4",
        "operation": "CONDITION",
        "condition": {
            "statements": [
                {
                    "left": "${E::object_type}",
                    "op": "==",
                    "right": "FixedAddress"
                },
                {
                    "left": "${E::values{ipv4addr}}",
                    "op": "!=",
                    "right": ""
                }
            ],
            "condition_type": "AND",
            "eval": "${XC:COPY:{L:internal{analyzer_ipv4}}:
{E:member_ip}}${XC:COPY:{L:internal{source_ipv4}}:
```

```
{E:member_ip}}${XC:ASSIGN:{L:IPv}:{I:4}}",
            "else_eval": "${XC:COPY:{L:internal{analyzer_ipv6}}:
{E:member_ip}}${XC:COPY:{L:internal{source_ipv6}}:
{E:member_ip}}${XC:ASSIGN:{L:IPv}:{I:6}}"
          }
        },
        {
          "name": "is_target_ipv4",
          "operation": "CONDITION",
          "condition": {
            "statements": [
              {
                "left": "${E::values{ipv4addr}}",
                "op": "!=",
                "right": ""
              }
            ],
            "condition_type": "AND",
            "eval": "${XC:COPY:{L:internal{target_ipv4}}:
{E:values{ipv4addr}}}",
            "else_eval": "${XC:COPY:{L:internal{target_ipv6}}:
{E:values{ipv6addr}}}"
          }
        },
        {
          "name": "is_severity_7",
          "operation": "CONDITION",
          "condition": {
            "statements": [
              {
                "left": "1",
                "op": "==",
                "right": "1"
              }
            ],
            "condition_type": "AND",
            "eval": "${XC:ASSIGN:{L:internal{severity}}:{I:7}}"
          }
        },
        {
          "name": "check if reservation range or network to assign values",
          "operation": "CONDITION",
```

```
            "condition": {
                "statements": [
                    {
                        "left": "${E::object_type}",
                        "op": "==",
                        "right": "FixedAddress"
                    },
                    {
                        "left": "${E::object_type}",
                        "op": "==",
                        "right": "IPv6FixedAddress"
                    }
                ],
                "condition_type": "OR",
                "eval": "${XC:COPY:{L:ruleName}:
{E:member_name}}${XC:FORMAT:TRUNCATE:{L:ruleName}:
{-128f}}${XC:COPY:{L:threatName}:
{E:values{_ref}}}${XC:FORMAT:TRUNCATE:{L:threatName}:
{-128f}}${XC:COPY:{L:DetectedUTC}:{E:timestamp}}${XC:ASSIGN:
{L:Obj_ref}:{S:}}${XC:ASSIGN:{L:network_view}:{S:default}}${XC:COPY:
{L:Object_type}:{E:object_type}}${XC:ASSIGN:{L:threatActionTaken}:
{S:Alert}}${XC:ASSIGN:{L:threatHandled}:{I:1}}${XC:COPY:
{L:operation_type}:{E:operation_type}}"
            }
        },
        {
            "name": "check GUID",
            "operation": "CONDITION",
            "condition": {
                "condition_type": "OR",
                "statements": [
                    {
                        "left": "${E:A:values{extattrs}{ePO_GUID}{value}}",
                        "op": "==",
                        "right": ""
                    }
                ],
                "eval": "${XC:COPY:{L:GUID}:{UT:UUID}}${XC:ASSIGN:
{L:GUIDtype}:{S:generated}}",
                "else_eval": "${XC:COPY:{L:GUID}:{E:values{extattrs}
{ePO_GUID}{value}}}${XC:ASSIGN:{L:GUIDtype}:{S:local}}"
            }
```

```
},
{
    "name": "jump if have GUID or no WAPI credentials or is delete",
    "operation": "CONDITION",
    "condition": {
        "condition_type": "OR",
        "statements": [
            {
                "left": "${L:A:GUIDtype}",
                "op": "==",
                "right": "local"
            },
            {
                "left": "${UT:A:WAPIUSERNAME}",
                "op": "==",
                "right": ""
            },
            {
                "left": "${E:A:operation_type}",
                "op": "==",
                "right": "DELETE"
            }
        ],
        "next": "Check if operation type was delete to avoid errors"
    }
},
{
    "name": "Check if operation type was delete to avoid errors",
    "operation": "CONDITION",
    "condition": {
        "condition_type": "AND",
        "statements": [
            {
                "left": "${E:A:operation_type}",
                "op": "==",
                "right": "DELETE"
            }
        ],
        "next": "check DXL_MessageFormat_Delete"
    }
},
{
```

```
    "name": "set up address",
    "operation": "CONDITION",
    "condition": {
        "condition_type": "AND",
        "statements": [
            {
                "left": "${E::values{ipv4addr}}",
                "op": "!=",
                "right": ""
            }
        ],
        "eval": "${XC:COPY:{L:IP}:{E:values{ipv4addr}}}",
        "else_eval": "${XC:COPY:{L:IP}:{E:values{ipv6addr}}}"
    }
},
{
    "name": "Get User Data",
    "operation": "GET",
    "transport": {
        "path": "networkuser?user_status=ACTIVE&address=${L:A:IP}"
    },
    "wapi": "v2.6"
},
{
    "name": "check_user_response",
    "operation": "CONDITION",
    "condition": {
        "condition_type": "AND",
        "statements": [
            {
                "left": "${P:L:PARSE}",
                "op": "==",
                "right": "0"
            }
        ],
        "next": "check_username"
    }
},
{
    "name": "Pop User from the list",
    "operation": "VARIABLEOP",
    "variable_ops": [
```

```
            {
                "operation": "UNSHIFT",
                "type": "DICTIONARY",
                "destination": "L:user",
                "source": "P:PARSE"
            }
        ]
    },
    {
        "name": "check_username",
        "operation": "CONDITION",
        "condition": {
            "condition_type": "AND",
            "statements": [
                {
                    "left": "${L::user{name}}",
                    "op": "!=",
                    "right": ""
                }
            ],
            "eval": "${XC:COPY:{L:username}:{L:user{name}}}${XC:COPY:
{L:domainname}:{L:user{domainname}}}",
            "else_eval": "${XC:ASSIGN:{L:username}:{S:.}}${XC:ASSIGN:
{L:domainname}:{S:.}}"
        }
    },
    {
        "name": "assign ipv4 or ipv6 ip to use for GET requests",
        "operation": "CONDITION",
        "condition": {
            "condition_type": "AND",
            "statements": [
                {
                    "left": "${E::values{ipv4addr}}",
                    "op": "!=",
                    "right": ""
                }
            ],
            "eval": "${XC:COPY:{L:GetIP}:{E:values{ipv4addr}}}",
            "else_eval": "${XC:COPY:{L:GetIP}:{E:values{ipv6addr}}"
        }
    },
```

```
        {
            "name": "check IPv6",
            "operation": "CONDITION",
            "condition": {
                "condition_type": "OR",
                "statements": [
                    {
                        "left": "${L:A:IPv}",
                        "op": "==",
                        "right": "6"
                    }
                ],
                "next": "Get IPv6Fixed _ref"
            }
        },
        {
            "name": "Get IPv4Fixed _ref",
            "operation": "GET",
            "transport": {
                "path": "fixedaddress?ipv4addr=${L:U:GetIP}&network_view=
${L:U:network_view}&_return_fields=extattrs"
            },
            "wapi": "v2.7"
        },
        {
            "operation": "CONDITION",
            "name": "wapi_response_getIPv4Fix_ref",
            "condition": {
                "condition_type": "AND",
                "statements": [
                    {
                        "left": "${P:A:PARSE[0]{_ref}}",
                        "op": "!=",
                        "right": ""
                    }
                ],
                "next": "Get_Objref"
            }
        },
        {
            "name": "Get HostIPv4 _ref",
            "operation": "GET",
```

```
            "transport": {
                "path": "record:host?ipv4addr=${L:U:GetIP}&network_view=
${L:U:network_view}&_return_fields=extattrs"
            },
            "wapi": "v2.7"
        },
        {
            "operation": "CONDITION",
            "name": "wapi_response_getIPv4Host_ref",
            "condition": {
                "condition_type": "AND",
                "statements": [
                    {
                        "left": "${P:A:PARSE[0]{_ref}}",
                        "op": "!=",
                        "right": ""
                    }
                ],
                "next": "Get_Objref"
            }
        },
        {
            "name": "IPv4 object was not found",
            "operation": "CONDITION",
            "condition": {
                "condition_type": "OR",
                "statements": [
                    {
                        "left": "1",
                        "op": "==",
                        "right": "1"
                    }
                ],
                "next": "Check if Reservation ipv6"
            }
        },
        {
            "name": "Get IPv6Fixed _ref",
            "operation": "GET",
            "transport": {
                "path": "ipv6fixedaddress?ipv6addr=${L:U:GetIP}
&network_view=${L:U:network_view}&_return_fields=extattrs"
```

```
        },
        "wapi": "v2.7"
    },
    {
        "operation": "CONDITION",
        "name": "wapi_response_getIPv6Fix_ref",
        "condition": {
            "condition_type": "AND",
            "statements": [
                {
                    "left": "${P:A:PARSE[0]{_ref}}",
                    "op": "!=",
                    "right": ""
                }
            ],
            "next": "Get_Objref"
        }
    },
    {
        "name": "Get HostIPv6 _ref",
        "operation": "GET",
        "transport": {
            "path": "record:host?ipv6addr=${L:U:GetIP}&network_view=
${L:U:network_view}&_return_fields=extattrs"
        },
        "wapi": "v2.7"
    },
    {
        "operation": "CONDITION",
        "name": "wapi_response_getIPv6Host_ref",
        "condition": {
            "condition_type": "AND",
            "statements": [
                {
                    "left": "${P:A:PARSE[0]{_ref}}",
                    "op": "!=",
                    "right": ""
                }
            ],
            "next": "Get_Objref"
        }
    },
```

```
    {
        "name": "Get_Objref",
        "operation": "CONDITION",
        "condition": {
            "condition_type": "AND",
            "statements": [
                {
                    "left": "${P:A:PARSE[0]{_ref}}",
                    "op": "!=",
                    "right": ""
                }
            ],
            "eval": "${XC:COPY:{L:Obj_ref}:{P:PARSE[0]{_ref}}}"
        }
    },
    {
        "name": "jump if no Obj_ref",
        "operation": "CONDITION",
        "condition": {
            "condition_type": "OR",
            "statements": [
                {
                    "left": "${L:A:Obj_ref}",
                    "op": "==",
                    "right": ""
                }
            ],
            "next": "Check if Reservation ipv6"
        }
    },
    {
        "name": "Update GUID",
        "operation": "PUT",
        "transport": {
            "path": "${L:A:Obj_ref}"
        },
        "wapi": "v2.7",
        "wapi_quoting": "JSON",
        "body_list": [
            "{\"extattrs+\":{\"ePO_GUID\": { \"value\": \"${L:A:GUID}\"},
\"DXL_LastEventSentAt\": { \"value\": \"${E:A:timestamp}\"}}}"
        ]
```

```
        },
        {
            "name": "Check if Reservation ipv6",
            "operation": "CONDITION",
            "condition": {
                "condition_type": "AND",
                "statements": [
                    {
                        "left": "${E::event_type}",
                        "op": "==",
                        "right": "FIXED_ADDRESS_IPV6"
                    }
                ],
                "next": "GET Reservation IPv6 data"
            }
        },
        {
            "name": "GET Reservation IPv4 data",
            "operation": "GET",
            "transport": {
                "path": "fixedaddress?ipv4addr=${E::values{ipv4addr}}&_return_
fields=allow_telnet,agent_remote_id,name,agent_circuit_id,ddns_hostnam

e,comment,ddns_domainname,always_update_dns,client_identifier_prepend_zero

able_discovery,discover_now_status,enable_ddns,enable_pxe_lease_time,extattrs
            "wapi": "v2.7"
        },
        {
            "name": "Debug#35",
            "operation": "NOP",
            "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
        },
        {
            "name": "set Reservation IPv4 data vars",
            "operation": "NOP",
            "body_list": [
                "${XC:COPY:{L:allow_telnet}:{P:PARSE[0]{allow_telnet}}}",
                "${XC:COPY:{L:always_update_dns}:{P:PARSE[0]
{always_update_dns}}}",
                "${XC:COPY:{L:deny_bootp}:{P:PARSE[0]{deny_bootp}}}",
```

```
            "${XC:COPY:{L:dhcp_client_identifier}:{P:PARSE[0]
{dhcp_client_identifier}}}",
            "${XC:COPY:{L:disable}:{P:PARSE[0]{disable}}}",
            "${XC:COPY:{L:disable_discovery}:{P:PARSE[0]
{disable_discovery}}}",
            "${XC:COPY:{L:discover_now_status}:{P:PARSE[0]
{discover_now_status}}}",
            "${XC:COPY:{L:extattrs}:{P:PARSE[0]{extattrs}{ePO_GUID}
{value}}}",
            "${XC:COPY:{L:enable_ddns}:{P:PARSE[0]{enable_ddns}}}",
            "${XC:COPY:{L:enable_pxe_lease_time}:{P:PARSE[0]
{enable_pxe_lease_time}}}",
            "${XC:COPY:{L:ignore_dhcp_option_list_request}:{P:PARSE[0]
{ignore_dhcp_option_list_request}}}",
            "${XC:COPY:{L:ipv4addr}:{P:PARSE[0]{ipv4addr}}}",
            "${XC:COPY:{L:is_invalid_mac}:{P:PARSE[0]
{is_invalid_mac}}}",
            "${XC:COPY:{L:logic_filter_rules}:{P:PARSE[0]
{logic_filter_rules}}}",
            "${XC:COPY:{L:mac}:{P:PARSE[0]{mac}}}",
            "${XC:COPY:{L:match_client}:{P:PARSE[0]{match_client}}}",
            "${XC:COPY:{L:ms_options}:{P:PARSE[0]{ms_options}}}",
            "${XC:COPY:{L:network}:{P:PARSE[0]{network}}}",
            "${XC:COPY:{L:network_view}:{P:PARSE[0]{network_view}}}",
            "${XC:COPY:{L:options}:{P:PARSE[0]{options}}}",
            "${XC:COPY:{L:reserved_interface}:{P:PARSE[0]
{reserved_interface}}}",
            "${XC:ASSIGN:{L:address_type}:{S:}}",
            "${XC:ASSIGN:{L:duid}:{S:}}",
            "${XC:ASSIGN:{L:ipv6addr}:{S:}}",
            "${XC:ASSIGN:{L:ipv6prefix}:{S:}}",
            "${XC:ASSIGN:{L:preferred_lifetime}:{S:}}",
            "${XC:ASSIGN:{L:valid_lifetime}:{S:}}"
        ]
    },
    {
        "name": "Check agent_circuit_id",
        "operation": "CONDITION",
        "condition": {
            "condition_type": "AND",
            "statements": [
                {
```

```
                    "left": "${P::PARSE[0]{agent_circuit_id}}",
                    "op": "!=",
                    "right": ""
                }
            ],
            "eval": "${XC:COPY:{L:agent_circuit_id}:{P:PARSE[0]
{agent_circuit_id}}}",
            "else_eval": "${XC:ASSIGN:{L:agent_circuit_id}:{S:}}"
        }
    },
    {
        "name": "Check agent_remote_id",
        "operation": "CONDITION",
        "condition": {
            "condition_type": "AND",
            "statements": [
                {
                    "left": "${P::PARSE[0]{agent_remote_id}}",
                    "op": "!=",
                    "right": ""
                }
            ],
            "eval": "${XC:COPY:{L:agent_remote_id}:{P:PARSE[0]
{agent_remote_id}}}",
            "else_eval": "${XC:ASSIGN:{L:agent_remote_id}:{S:}}"
        }
    },
    {
        "name": "Check name",
        "operation": "CONDITION",
        "condition": {
            "condition_type": "AND",
            "statements": [
                {
                    "left": "${P::PARSE[0]{name}}",
                    "op": "!=",
                    "right": ""
                }
            ],
            "eval": "${XC:COPY:{L:name}:{P:PARSE[0]{name}}}",
            "else_eval": "${XC:ASSIGN:{L:name}:{S:}}"
        }
```

```
        },
        {
            "name": "Check ddns_hostname",
            "operation": "CONDITION",
            "condition": {
                "condition_type": "AND",
                "statements": [
                    {
                        "left": "${P::PARSE[0]{ddns_hostname}}",
                        "op": "!=",
                        "right": ""
                    }
                ],
                "eval": "${XC:COPY:{L:ddns_hostname}:{P:PARSE[0]
{ddns_hostname}}}",
                "else_eval": "${XC:ASSIGN:{L:ddns_hostname}:{S:}}"
            }
        },
        {
            "name": "Check ddns_domainname",
            "operation": "CONDITION",
            "condition": {
                "condition_type": "AND",
                "statements": [
                    {
                        "left": "${P::PARSE[0]{ddns_domainname}}",
                        "op": "!=",
                        "right": ""
                    }
                ],
                "eval": "${XC:COPY:{L:ddns_domainname}:{P:PARSE[0]
{ddns_domainname}}}",
                "else_eval": "${XC:ASSIGN:{L:ddns_domainname}:{S:}}"
            }
        },
        {
            "name": "Check comment",
            "operation": "CONDITION",
            "condition": {
                "condition_type": "AND",
                "statements": [
                    {
```

```
                    "left": "${P::PARSE[0]{comment}}",
                    "op": "!=",
                    "right": ""
                }
            ],
            "eval": "${XC:COPY:{L:comment}:{P:PARSE[0]{comment}}}",
            "else_eval": "${XC:ASSIGN:{L:comment}:{S:}}"
        }
    },
    {
        "name": "Debug#36",
        "operation": "NOP",
        "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
    },
    {
        "name": "Skip to send Data to DXL#2",
        "operation": "CONDITION",
        "condition": {
            "condition_type": "AND",
            "statements": [
                {
                    "left": "1",
                    "op": "==",
                    "right": "1"
                }
            ],
            "next": "check DXL_MessageFormat"
        }
    },
    {
        "name": "GET Reservation IPv6 data",
        "operation": "GET",
        "transport": {
            "path": "ipv6fixedaddress?ipv6addr=${E::values{ipv6addr}}&_ret
urn_fields=address_type,allow_telnet,comment,name,disable,disable_disc
overy,discover_now_status,domain_name_servers,duid,extattrs,ipv6addr,i
pv6prefix,network,network_view,options,preferred_lifetime,reserved_interf
ace,valid_lifetime"¢           ÒÊ
        "wapi": "v2.7"
    },
```

```
        {
            "name": "Debug#37",
            "operation": "NOP",
            "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
        },
        {
            "name": "set Reservation IPv6 vars",
            "operation": "NOP",
            "body_list": [
                "${XC:COPY:{L:address_type}:{P:PARSE[0]{address_type}}}",
                "${XC:COPY:{L:allow_telnet}:{P:PARSE[0]{allow_telnet}}}",
                "${XC:COPY:{L:disable}:{P:PARSE[0]{disable}}}",
                "${XC:COPY:{L:disable_discovery}:{P:PARSE[0]
{disable_discovery}}}",
                "${XC:COPY:{L:discover_now_status}:{P:PARSE[0]
{discover_now_status}}}",
                "${XC:COPY:{L:domain_name_servers}:{P:PARSE[0]
{domain_name_servers}}}",
                "${XC:COPY:{L:duid}:{P:PARSE[0]{duid}}}",
                "${XC:COPY:{L:extattrs}:{P:PARSE[0]{extattrs}{ePO_GUID}
{value}}}",
                "${XC:COPY:{L:ipv6addr}:{P:PARSE[0]{ipv6addr}}}",
                "${XC:COPY:{L:ipv6prefix}:{P:PARSE[0]{ipv6prefix}}}",
                "${XC:COPY:{L:network}:{P:PARSE[0]{network}}}",
                "${XC:COPY:{L:network_view}:{P:PARSE[0]{network_view}}}",
                "${XC:COPY:{L:options}:{P:PARSE[0]{options}}}",
                "${XC:COPY:{L:preferred_lifetime}:{P:PARSE[0]
{preferred_lifetime}}}",
                "${XC:COPY:{L:reserved_interface}:{P:PARSE[0]
{reserved_interface}}}",
                "${XC:COPY:{L:valid_lifetime}:{P:PARSE[0]{valid_lifetime}}}",
                "${XC:ASSIGN:{L:always_update_dns}:{S:}}",
                "${XC:ASSIGN:{L:deny_bootp}:{S:}}",
                "${XC:ASSIGN:{L:dhcp_client_identifier}:{S:}}",
                "${XC:ASSIGN:{L:enable_ddns}:{S:}}",
                "${XC:ASSIGN:{L:enable_pxe_lease_time}:{S:}}",
                "${XC:ASSIGN:{L:ignore_dhcp_option_list_request}:{S:}}",
                "${XC:ASSIGN:{L:ipv4addr}:{S:}}",
                "${XC:ASSIGN:{L:is_invalid_mac}:{S:}}",
                "${XC:ASSIGN:{L:logic_filter_rules}:{S:}}",
```

```
            "${XC:ASSIGN:{L:mac}:{S:}}",
            "${XC:ASSIGN:{L:match_client}:{S:}}",
            "${XC:ASSIGN:{L:agent_circuit_id}:{S:}}",
            "${XC:ASSIGN:{L:agent_remote_id}:{S:}}",
            "${XC:ASSIGN:{L:ddns_hostname}:{S:}}",
            "${XC:ASSIGN:{L:ddns_domainname}:{S:}}",
            "${XC:ASSIGN:{L:ms_options}:{S:}}"
        ]
    },
    {
        "name": "Check name#2",
        "operation": "CONDITION",
        "condition": {
            "condition_type": "AND",
            "statements": [
                {
                    "left": "${P::PARSE[0]{name}}",
                    "op": "!=",
                    "right": ""
                }
            ],
            "eval": "${XC:COPY:{L:name}:{P:PARSE[0]{name}}}",
            "else_eval": "${XC:ASSIGN:{L:name}:{S:}}"
        }
    },
    {
        "name": "Check comment#2",
        "operation": "CONDITION",
        "condition": {
            "condition_type": "AND",
            "statements": [
                {
                    "left": "${P::PARSE[0]{comment}}",
                    "op": "!=",
                    "right": ""
                }
            ],
            "eval": "${XC:COPY:{L:comment}:{P:PARSE[0]{comment}}}",
            "else_eval": "${XC:ASSIGN:{L:comment}:{S:}}"
        }
    },
    {
```

```
            "name": "check DXL_MessageFormat",
            "operation": "CONDITION",
            "condition": {
               "condition_type": "AND",
               "statements": [
                  {
                     "left": "${I::DXL_MessageFormat}",
                     "op": "==",
                     "right": "CEF"
                  }
               ],
               "next": "send_CEF"
            }
         },
         {
            "name": "Debug#38",
            "operation": "NOP",
            "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
         },
         {
            "name": "send_OpenDXL",
            "operation": "DXL_SEND_EVENT",
            "body_list": [
               "{",
               "    \"eventMsgType\": \"Infoblox Change Event\",",
               "    \"eventMsgVersion\": \"1.0\",",
               "    \"event\": {",
               "        \"category\": \"${E::event_type}\",",
               "        \"eventDesc\": \"DNS ${E::event_type}
${E::operation_type} event\",",
               "        \"eventType\": \"${E::operation_type}\",",
               "        \"eventId\": \"204161\",",
               "        \"analyzer\": {",
               "            \"id\": \"S_INFBLX0802\",",
               "            \"version\": \"8.2.1\",",
               "            \"name\": \"NIOS\",",
               "            \"detectionMethod\": \"NIOS\",",
               "            \"hostName\": \"${E::member_name}\",",
               "            \"detectedUTC\": \"${L::DetectedUTC}\",",
               "            \"ipv4\": \"${L::internal{analyzer_ipv4}}\",",
```

```
            "            \"ipv6\": \"${L::internal{analyzer_ipv6}}\"",
            "        },",
            "        \"entity\": {",
            "            \"groupName\": \"\",",
            "            \"osPlatform\": \"\",",
            "            \"osType\": \"\",",
            "            \"type\": \"\",",
            "            \"sessionID\": \"\",",
            "            \"allow_telnet\": \"${L::allow_telnet}\",",
            "            \"disable\": \"${L::disable}\",",
            "            \"always_update_dns\": \"${L::always_update_dns}\",",
            "            \"deny_bootp\": \"${L::deny_bootp}\",",
            "            \"dhcp_client_identifier\":
\"${L::dhcp_client_identifier}\",",
            "            \"enable_ddns\": \"${L::enable_ddns}\",",
            "            \"enable_pxe_lease_time\":
\"${L::enable_pxe_lease_time}\",",
            "            \"ignore_dhcp_option_list_request\":
\"${L::ignore_dhcp_option_list_request}\",",
            "            \"ipv4addr\": \"${L::ipv4addr}\",",
            "            \"is_invalid_mac\": \"${L::is_invalid_mac}\",",
            "            \"mac\": \"${L::mac}\",",
            "            \"match_client\": \"${L::match_client}\",",
            "            \"disable_discovery\": \"${L::disable_discovery}\",",
            "            \"network_view\": \"${L::network_view}\",",
            "            \"address_type\": \"${L::address_type}\",",
            "            \"discover_now_status\":
\"${L::discover_now_status}\",",
            "            \"duid\": \"${L::duid}\",",
            "            \"username\": \"${L::username}\",",
            "            \"domainname\": \"${L::domainname}\",",
            "            \"ipv6addr\": \"${L::ipv6addr}\",",
            "            \"ipv6prefix\": \"${L::ipv6prefix}\",",
            "            \"network\": \"${L::network}\",",
            "            \"preferred_lifetime\": \"${L::preferred_lifetime}\",",
            "            \"reserved_interface\": \"${L::reserved_interface}\",",
            "            \"valid_lifetime\": \"${L::valid_lifetime}\",",
            "            \"agent_circuit_id\": \"${L::agent_circuit_id}\",",
            "            \"agent_remote_id\": \"${L::agent_remote_id}\",",
            "            \"name\": \"${L::name}\",",
            "            \"ddns_hostname\": \"${L::ddns_hostname}\",",
            "            \"ddns_domainname\": \"${L::ddns_domainname}\",",
```

```
            "            \"comment\": \"${L::comment}\",",
            "            \"extattr\":{",
            "                \"Values\": \"${L::extattrs}\"",
            "            }",
            "        },",
            "        \"extattr\":{",
            "            \"ePO_GUID\": \"${L::extattrs}\"",
            "        },",
            "        \"source\": {",
            "            \"ipv4\": \"${L::internal{source_ipv4}}\",",
            "            \"ipv6\": \"${L::internal{source_ipv6}}\",",
            "            \"port\": 00000",
            "        }",
            "    }",
            "}"
        ],
        "dxl_topic": "/open/DDI/v1/${E::event_type}/infoblox"
    },
    {
        "name": "Debug#50",
        "operation": "NOP",
        "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
    },
    {
        "name": "goFin",
        "operation": "CONDITION",
        "condition": {
            "condition_type": "OR",
            "statements": [
                {
                    "left": "1",
                    "op": "==",
                    "right": "1"
                }
            ],
            "next": "Fin"
        }
    },
    {
        "name": "send_CEF",
```

```
        "operation": "DXL_SEND_EVENT",
        "body_list": [
            "{\"DXLCommonEvent\":{",
            "\"category\": \"${E::event_type}\",",
            "\"eventDesc\": \"DNS ${E::event_type} ${E::operation_type}
event\",",
            "\"eventType\": \"${E::operation_type}\",",
            "\"eventId\": \"204161\",",
            "\"AgentGUID\": \"${L::GUID}\",",
            "\"Analyzer\":
\"${L::internal{analyzer_ipv4}}${L::internal{analyzer_ipv6}}\",",
            "\"AnalyzerDATVersion\": \"\",",
            "\"AnalyzerDetectionMethod\": \"${E::object_type}\",",
            "\"AnalyzerHostName\": \"${E::member_name}\",",
            "\"AnalyzerIPV4\": \"${L::internal{analyzer_ipv4}}\",",
            "\"AnalyzerIPV6\": \"${L::internal{analyzer_ipv6}}\",",
            "\"AnalyzerMAC\": \"\",",
            "\"AnalyzerName\": \"NIOS\",",
            "\"AnalyzerVersion\": \"8.2.1\",",
            "\"DetectedUTC\": \"${L::DetectedUTC}\",",
            "\"ServerID\":
\"${L::internal{analyzer_ipv4}}${L::internal{analyzer_ipv6}}\",",
            "\"SourceIPV4\": \"${L::internal{source_ipv4}}\",",
            "\"SourceIPV6\": \"${L::internal{source_ipv6}}\",",
            "\"SourcePort\": \"00000\",",
            "\"TargetHostName\": \"${E::member_name}\",",
            "\"TargetIPV4\": \"${L::internal{analyzer_ipv4}}\",",
            "\"TargetIPV6\": \"${L::internal{analyzer_ipv6}}\",",
            "\"TargetPort\": \"53\",",
            "\"TargetProtocol\": \"dns\",",
            "\"allow_telnet\": \"${L::allow_telnet}\",",
            "\"disable\": \"${L::disable}\",",
            "\"always_update_dns\": \"${L::always_update_dns}\",",
            "\"deny_bootp\": \"${L::deny_bootp}\",",
            "\"dhcp_client_identifier\": \"${L::dhcp_client_identifier}\",",
            "\"enable_ddns\": \"${L::enable_ddns}\",",
            "\"enable_pxe_lease_time\": \"${L::enable_pxe_lease_time}\",",
            "\"ignore_dhcp_option_list_request\":
\"${L::ignore_dhcp_option_list_request}\",",
            "\"ipv4addr\": \"${L::ipv4addr}\",",
            "\"is_invalid_mac\": \"${L::is_invalid_mac}\",",
            "\"mac\": \"${L::mac}\",",
```

```
        "\"username\": \"${L::username}\",",
        "\"domainname\": \"${L::domainname}\",",
        "\"match_client\": \"${L::match_client}\",",
        "\"disable_discovery\": \"${L::disable_discovery}\",",
        "\"network_view\": \"${L::network_view}\",",
        "\"address_type\": \"${L::address_type}\",",
        "\"discover_now_status\": \"${L::discover_now_status}\",",
        "\"duid\": \"${L::duid}\",",
        "\"ipv6addr\": \"${L::ipv6addr}\",",
        "\"ePO_GUID\": \"${L::extattrs}\"",
        "\"ipv6prefix\": \"${L::ipv6prefix}\",",
        "\"network\": \"${L::network}\",",
        "\"preferred_lifetime\": \"${L::preferred_lifetime}\",",
        "\"reserved_interface\": \"${L::reserved_interface}\",",
        "\"agent_circuit_id\": \"${L::agent_circuit_id}\",",
        "\"agent_remote_id\": \"${L::agent_remote_id}\",",
        "\"name\": \"${L::name}\",",
        "\"ddns_hostname\": \"${L::ddns_hostname}\",",
        "\"ddns_domainname\": \"${L::ddns_domainname}\",",
        "\"comment\": \"${L::comment}\",",
        "\"valid_lifetime\": \"${L::valid_lifetime}\"",
        "}}"
    ],
    "dxl_topic": "/infoblox/outbound/${E::event_type}"
},
{
    "name": "goFin#2",
    "operation": "CONDITION",
    "condition": {
        "condition_type": "OR",
        "statements": [
            {
                "left": "1",
                "op": "==",
                "right": "1"
            }
        ],
        "next": "Fin"
    }
},
{
    "name": "check DXL_MessageFormat_Delete",
```

```
        "operation": "CONDITION",
        "condition": {
            "condition_type": "AND",
            "statements": [
                {
                    "left": "${I::DXL_MessageFormat}",
                    "op": "==",
                    "right": "CEF"
                }
            ],
            "next": "send_CEF_Delete"
        }
    },
    {
        "name": "send_OpenDXL_Delete",
        "operation": "DXL_SEND_EVENT",
        "body_list": [
            "{",
            "    \"eventMsgType\": \"Infoblox Change Event\",",
            "    \"eventMsgVersion\": \"1.0\",",
            "    \"event\": {",
            "        \"category\": \"${E::event_type}\",",
            "        \"eventDesc\": \"DNS ${E::event_type}
${E::operation_type} event\",",
            "        \"eventType\": \"${E::operation_type}\",",
            "        \"eventId\": \"204161\",",
            "        \"analyzer\": {",
            "            \"id\": \"S_INFBLX0802\",",
            "            \"version\": \"8.2.1\",",
            "            \"name\": \"NIOS\",",
            "            \"detectionMethod\": \"NIOS\",",
            "            \"hostName\": \"${E::member_name}\",",
            "            \"detectedUTC\": \"${L::DetectedUTC}\",",
            "            \"ipv4\": \"${L::internal{analyzer_ipv4}}\",",
            "            \"ipv6\": \"${L::internal{analyzer_ipv6}}\"",
            "        },",
            "        \"source\": {",
            "            \"ipv4\": \"${L::internal{source_ipv4}}\",",
            "            \"ipv6\": \"${L::internal{source_ipv6}}\",",
            "            \"port\": 00000",
            "        }",
            "    }",
```

```
            "}"
        ],
        "dxl_topic": "/open/DDI/v1/${E::event_type}/infoblox"
    },
    {
        "name": "goFin#3",
        "operation": "CONDITION",
        "condition": {
            "condition_type": "OR",
            "statements": [
                {
                    "left": "1",
                    "op": "==",
                    "right": "1"
                }
            ],
            "next": "Fin"
        }
    },
    {
        "name": "send_CEF_Delete",
        "operation": "DXL_SEND_EVENT",
        "body_list": [
            "{\"DXLCommonEvent\":{",
            "\"category\": \"${E::event_type}\",",
            "\"eventDesc\": \"DNS ${E::event_type} ${E::operation_type}
event\",",
            "\"eventType\": \"${E::operation_type}\",",
            "\"eventId\": \"204161\",",
            "\"AgentGUID\": \"${L::GUID}\",",
            "\"Analyzer\":
\"${L::internal{analyzer_ipv4}}${L::internal{analyzer_ipv6}}\",",
            "\"AnalyzerDATVersion\": \"\",",
            "\"AnalyzerDetectionMethod\": \"${E::object_type}\",",
            "\"AnalyzerHostName\": \"${E::member_name}\",",
            "\"AnalyzerIPV4\": \"${L::internal{analyzer_ipv4}}\",",
            "\"AnalyzerIPV6\": \"${L::internal{analyzer_ipv6}}\",",
            "\"AnalyzerMAC\": \"\",",
            "\"AnalyzerName\": \"NIOS\",",
            "\"AnalyzerVersion\": \"8.2.1\",",
            "\"DetectedUTC\": \"${L::DetectedUTC}\",",
            "\"ServerID\":
```

```
\"${L::internal{analyzer_ipv4}}${L::internal{analyzer_ipv6}}\",",
                "\"SourceIPV4\": \"${L::internal{source_ipv4}}\",",
                "\"SourceIPV6\": \"${L::internal{source_ipv6}}\",",
                "\"SourcePort\": \"00000\",",
                "\"TargetHostName\": \"${E::member_name}\",",
                "\"TargetIPV4\": \"${L::internal{analyzer_ipv4}}\",",
                "\"TargetIPV6\": \"${L::internal{analyzer_ipv6}}\",",
                "\"TargetPort\": \"53\",",
                "\"TargetProtocol\": \"dns\"",
                "}}"
            ],
            "dxl_topic": "/infoblox/outbound/${E::event_type}"
        },
        {
            "name": "Fin",
            "operation": "NOP",
            "body": ""
        }
    ]
}
```