

Rest API integration with PolicyCenter

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I'll help you publish a REST API in PolicyCenter to integrate with an MVR (Motor Vehicle Records) application. Let me walk you through an end-to-end example.

Example: Publishing an MVR Order REST API

Let's create a REST API that allows the MVR application to receive order requests from PolicyCenter when a driver needs their motor vehicle record checked.

Step 1: Create the API Configuration in Studio

1. Open Guidewire Studio and connect to your PolicyCenter project
2. Create a new REST API configuration:
 - o Navigate to **Integration** → **Outbound** → **REST APIs**
 - o Right-click and select **New** → **REST API Configuration**
 - o Name it: **MVROrderAPI**

Step 2: Define the REST Service in GOSU

Create a new Gosu class for your service:

gosu

```

package com.yourcompany.pc.integration.mvr

uses gw.api.rest.RestEndpoint
uses gw.api.rest.RestResponse
uses gw.api.json.JsonObject
uses javax.ws.rs.*
uses javax.ws.rs.core.MediaType
uses javax.ws.rs.core.Response

@Path("mvr/v1")
@Produces(MediaType.APPLICATION_JSON)
@Consumes(MediaType.APPLICATION_JSON)
class MVROrderRestAPI {

    /**
     * Submit an MVR order request
     */
    @POST
    @Path("orders")
    function createMVROrder(orderRequest : JsonObject) : Response {
        try {
            // Parse the request
            var driverLicenseNumber = orderRequest.get("driverLicenseNumber") as String
            var driverLicenseState = orderRequest.get("driverLicenseState") as String
            var policyNumber = orderRequest.get("policyNumber") as String
            var driverName = orderRequest.get("driverName") as String

            // Find the policy
            var policy = gw.api.database.Query.make(entity.Policy)
                .compare("PolicyNumber", Equals, policyNumber)
                .select().first()

            if (policy == null) {
                return Response.status(Response.Status.NOT_FOUND)
                    .entity({"error": "Policy not found"})
                    .build()
            }

            // Create MVR order (custom logic)
            var mvrOrder = createMVROrderRecord(policy, driverLicenseNumber,
                driverLicenseState, driverName)

            // Send to external MVR provider
            sendToMVRProvider(mvrOrder)

            // Return success response
            var responseData = new JsonObject()
            responseData.put("orderId", mvrOrder.OrderID)
            responseData.put("status", "SUBMITTED")
            responseData.put("message", "MVR order created successfully")

            return Response.status(Response.Status.CREATED)
        }
    }
}

```

```

        .entity(responseData)
        .build()

    } catch (e : Exception) {
        return Response.status(Response.Status.INTERNAL_SERVER_ERROR)
            .entity({"error": e.Message})
            .build()
    }
}

/**
 * Get MVR order status
 */
@GET
@Path("orders/{orderId}")
function getMVROrderStatus(@PathParam("orderId") orderId : String) : Response {
    try {
        // Query for the MVR order
        var order = findMVROrder(orderId)

        if (order == null) {
            return Response.status(Response.Status.NOT_FOUND)
                .entity({"error": "Order not found"})
                .build()
        }

        var responseData = new JsonObject()
        responseData.put("orderId", order.OrderID)
        responseData.put("status", order.Status.Code)
        responseData.put("driverLicenseNumber", order.DriverLicenseNumber)
        responseData.put("orderDate", order.OrderDate)

        return Response.ok(responseData).build()
    } catch (e : Exception) {
        return Response.status(Response.Status.INTERNAL_SERVER_ERROR)
            .entity({"error": e.Message})
            .build()
    }
}

// Helper methods
private function createMVROrderRecord(policy : Policy,
                                         licenseNum : String,
                                         state : String,
                                         name : String) : MVROrder {
    // Implementation to create your custom MVR order entity
    // This would be specific to your data model
}

private function sendToMVRProvider(order : MVROrder) {
    // Logic to call external MVR provider API
}

```

```
}

private function findMVROrder(orderId : String) : MVROrder {
    // Query to find MVR order by ID
}
}
```

Step 3: Configure Authentication

In `config/config.xml` or through Studio, configure authentication:

xml

```
<authentication>
    <rest-api>
        <service name="MVROrderRestAPI">
            <security-scheme>basic-auth</security-scheme>
            <allowed-roles>
                <role>mvrintegration</role>
            </allowed-roles>
        </service>
    </rest-api>
</authentication>
```

```

### Step 4: Deploy and Test

1. \*\*Build and deploy\*\* your changes to PolicyCenter

2. \*\*Access the API\*\* at:

```  
`https://your-pc-server:port/pc/rest/mvr/v1/orders`

3. Test with a POST request:

bash

```
curl -X POST \
    https://your-pc-server/pc/rest/mvr/v1/orders \
    -H 'Content-Type: application/json' \
    -H 'Authorization: Basic <base64-encoded-credentials>' \
    -d '{
        "driverLicenseNumber": "D1234567",
        "driverLicenseState": "CA",
        "policyNumber": "PC-0001234",
        "driverName": "John Doe"
    }'
```

4. Test GET request:

bash

```
curl -X GET \
  https://your-pc-server/pc/rest/mvr/v1/orders/ORD-12345 \
  -H 'Authorization: Basic <base64-encoded-credentials>'
```

Step 5: Create Webhook for MVR Results (Optional)

Create an inbound REST endpoint to receive MVR results:

gosu

```
@POST
@Path("orders/{orderId}/results")
function receiveMVRResults(@PathParam("orderId") orderId : String,
                           results : JsonObject) : Response {
  try {
    var order = findMVROrder(orderId)

    if (order == null) {
      return Response.status(Response.Status.NOT_FOUND).build()
    }

    // Update order with results
    order.Status = MVROrderStatus.TC_COMPLETED
    order.ViolationCount = results.get("violationCount") as Integer
    order.AccidentCount = results.get("accidentCount") as Integer
    // ... update other fields

    return Response.ok({"message": "Results received"}).build()
  } catch (e : Exception) {
    return Response.status(Response.Status.INTERNAL_SERVER_ERROR).build()
  }
}
```

Key Considerations:

- **Error Handling:** Implement comprehensive error handling for network failures, data validation, etc.
- **Security:** Use OAuth 2.0 or API keys for production instead of basic auth
- **Logging:** Add detailed logging for troubleshooting
- **Rate Limiting:** Consider implementing rate limiting
- **Versioning:** Include API version in the path (v1, v2, etc.)
- **Documentation:** Generate OpenAPI/Swagger documentation

Would you like me to elaborate on any specific part of this integration, such as the data model for MVR orders or error handling patterns?