

.NET SDK for WA Digital Wallet

This library enables C# applications to interact with the WA Digital Wallet service. It supports credential issuance, status checks, presentation verification and tenant administration. The SDK targets .NET 6 and later.

Installation

Install via NuGet:

```
dotnet add package WA.DigitalWallet --version 1.0.0
```

Configuration

Add the following configuration to your appsettings.json:

```
{
  "WalletOptions": {
    "ApiBaseUrl": "https://wallet.api.gov.wa.au/api/v1",
    "ClientId": "your-client-id",
    "ClientSecret": "your-client-secret",
    "TenantId": "tenant-id"
  }
}
```

Register the client in your service container:

```
using Wa.DigitalWallet;
builder.Services.AddDigitalWallet(options => {
    configuration.GetSection("WalletOptions").Bind(options);
});
```

Issuing a credential

```
var request = new IssueCredentialRequest
{
    SchemaId = "mDL",
    SubjectDid = "did:example:12345",
    Attributes = new Dictionary<string, object>
```

```
{
    ["familyName"] = "Citizen",
    ["givenName"] = "Jane",
    ["expiry"] = "2030-12-31"
  }
};
var response = await _walletClient.IssueCredentialAsync(request);
Console.WriteLine($"Credential issued: {response.CredentialId}");
```

Verifying a presentation

```
var result = await _walletClient.VerifyPresentationAsync(new
VerifyPresentationRequest
{
    Presentation = jwtPresentation
});
if (result.Verified)
{
    Console.WriteLine($"Subject DID: {result.SubjectDid}");
}
```

Tenant onboarding

```
var tenantResponse = await _walletAdminClient.CreateTenantAsync(new
CreateTenantRequest
{
    Name = "Department of Transport",
    Region = "AustraliaEast"
});
```

Logging & telemetry

The SDK integrates with Microsoft.Extensions.Logging and emits structured logs. It also exposes diagnostic events for OpenTelemetry tracing.

Support

Refer to the documentation and API specification for detailed information. Issues and feature requests can be submitted via the project's issue tracker.