UnifiedOdds Feed SDK .NET library (.NET Standard 2.0)

Notice: before starting [DemoProject](#) make sure to enter your bookmaker access token in app.config file and restore nuget packages by right-clicking the solution item and selecting "Restore NuGet Packages".

Below are basic examples that can help you start using sdk.

A basic way to use the UofSdk

To receive sdk events/messages subscribe to all `Sportradar.OddsFeed.SDK.Api.IUofSdk` and `Sportradar.OddsFeed.SDK.Api. IEntityDispatcher` events.

Note that there is one thread handling message reception and calling your event handler per session, so the processing within that method should be as quick as possible to not prevent following messages from being processed. It is recommended that all `Sportradar.OddsFeed.SDK.Entities.Rest.ISportEvent` processing is done in separate thread.

Below example is the minimum setup to start receiving messages. Note that you open only once, process messages for as long as you want, and then close the feed.

```
var config = UofSdk.GetConfigurationBuilder().BuildFromConfigFile();

var uofSdk = new UofSdk(config);

var session =
uofSdk.GetSessionBuilder().SetMessageInterest(MessageInterest.AllMessages).Build();

uofSdk.ProducerUp += OnProducerUp;
uofSdk.ProducerDown += OnProducerDown;
uofSdk.Disconnected += OnDisconnected;
uofSdk.Closed += OnClosed;

session.OnUnparsableMessageReceived += SessionOnUnparsableMessageReceived;
session.OnBetCancel += SessionOnBetCancel;
session.OnBetSettlement += SessionOnBetSettlement;
session.OnBetStop += SessionOnBetStop;
session.OnFixtureChange += SessionOnFixtureChange;
session.OnOddsChange += SessionOnOddsChange;
session.OnRollbackBetCancel += SessionOnRollbackBetCancel;
session.OnRollbackBetSettlement += SessionOnRollbackBetSettlement;
```

```
uofSdk.Open();
```

Change Log

2024-08-28 2.2.1

- Changed registering of ICustomBetManager to singleton
- Fix: Information whether competitor is virtual or not can reliably be fetched on all applicable sport events

2024-07-29 2.2.0

- Enabled accessing match statistics on MatchStatus received via IMatch.GetStatus object (beside Soccer also supports Kabaddi statistics)
- Improved memory management and disposal of resources when UofSdk is closed

2024-05-15 2.1.0

- Improved variant market handling when API call is not received or has some faulty data (i.e. missing outcome name)
- Fix: custom configuration now respect Ssl setting to rewrite api_url if needed
- Fix: directly build custom configuration from app.config settings
- Fix: default debug level to Debug in example project

2023-11-17 2.0.1

- Fix for user apps when they use RabbitMq.Client library v6.6.0

2023-10-24 2.0.0

- New major release

2023-10-04 2.0.0-rc1.20231004

- Added support for ICompetitor.Division (moved and replaced from ITeamCompetitor)
- Extended IJersey with SquareColor and HorizontalStripesColor

2023-09-20 2.0.0-rc1.20230920

- Added support for IVenue.Courses (returns list of ICourse instead of list of IHole)

2023-09-18 2.0.0-rc1.20230918

- TargetFramework changed from netstandard2.1 to netstandard2.0
- Removed all default method implementations on interfaces
- Removed obsolete property or methods:
  - IOutcomeSettlement.Result

- - IOddsFeedConfigurationSection.UseIntegrationEnvironment
  - IRound.GroupName
  - IRound.GetGroupName()
- Root classes renamed
  - IOddsFeed to IUofSdk
  - Feed to UofSdk
  - ReplayFeed to UofSdkForReplay
  - IOddsFeedExt to IUofSdkExtended
  - FeedExt to UofSdkExtended
  - IOddsFeedConfigurationSection to IUofConfigurationSection
  - OddsFeedConfigurationSection to UofConfigurationSection
  - IOddsFeedConfiguration to IUofConfiguration
  - Introduced IUofAdditionalConfiguration
  - Removed OperationManager (properties moved to IUofConfiguration)
  - IEnvironmentSelector - removed SelectIntegration() and SelectProduction() - use SelectEnvironment(SdkEnvironment ufEnvironment)
  - Renamed Feed.CreateBuilder() to UofSdk.GetSessionBuilder()
  - App.config section moved to Sportradar.OddsFeed.SDK.Api.Internal.Config.UofConfigurationSection
  - UofConfigurationSection property supportedLanguages renamed to desiredLanguages
- Renamed IRound.Name to Names
- Renamed IRound.PhaseOrGroupLongName to PhaseOrGroupLongNames
- IProducerManager method Get() renamed to GetProducer()
- Renamed suffix DTO to Dto (internal)
- Removed CI suffix in Exportable classes (internal)
- Renamed suffix CI to CacheItem (internal)
- Enum values in MessageType changed to CamelCase
- Enum values in ExceptionHandlingStrategy changed to CamelCase
- Enum values in CashoutStatus changed to CamelCase
- Enum values in FixtureChangeType changed to CamelCase
- Enum values in MarketStatus changed to CamelCase
- Enum values in OddsChangeReason changed to CamelCase
- Enum values in PropertyUsage changed to CamelCase
- Enum values in ResourceTypeGroup changed to CamelCase
- Dependent library changes:
  - Removed Newtonsoft.Json
  - Humanizer 2.8.26 -> 2.14.1
  - RabbitMQ.Client 5.1.2 -> 6.5.0
  - Microsoft.Extensions.Logging.Abstractions 3.1.0 -> 7.0.0

- System.Configuration.ConfigurationManager 4.7.0 -> 7.0.0 - Should be changed with Microsoft.Extensions.Configuration 7.0.0,
    - Removed System.Runtime.Caching 4.7.0 replaced with Microsoft.Extensions.Caching.Memory
    - App.Metrics replaced with OpenTelemetry 1.6.0
    - Unity replaced with Microsoft.Extensions.DependencyInjection 7.0.0
    - Introduced Microsoft.Extensions.Diagnostics.HealthChecks 7.0.11
    - Introduced Microsoft.Extensions.Http 7.0.0
    - Removed Castle.Core
- Tests projects upgraded to NET 6.0
- Tests projects depended libraries upgraded to latest versions
- Inconsistent naming
    - IOddsFeedConfigurationSection.UseSSL -> UseSsl
    - IOddsFeedConfigurationSection.UseApiSSL -> UseApiSsl
    - ReplayPlayerStatus.Setting_up - SettingUp
    - IFixture.StartTimeTBD -> StartTimeTbd
    - ExportableFixture.StartTimeTBD -> StartTimeTbd
    - EventStatus.Not_Started -> NotStarted
    - FeedMessage.EventURN -> EventUrn
    - URN -> Urn
- Changed namespace
    - API namespace renamed to Api
    - REST namespace renamed to Rest
    - replay interfaces to Api.Replay
    - feed managers to Api.Managers
    - feed providers to Api.Managers
    - enum types moved to Common.Enums
    - IOddsFeedConfigurationSection moved to Api.Internal.Config
    - configuration interfaces moved to Api.Config
    - MessageInterest class moved to Api.Config

change

```
<configSections>
  <section name="oddsFeedSection"
type="Sportradar.OddsFeed.SDK.API.Internal.OddsFeedConfigurationSection,
Sportradar.OddsFeed.SDK" />
</configSections>
```

to

```xml
<configSections>
    <section name="uofSdkSection"
type="Sportradar.OddsFeed.SDK.Api.Internal.Config.UofConfigurationSection,
Sportradar.OddsFeed.SDK" />
</configSections>
```