

DATEX II

Hands on web service implementation in .Net Core

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What do we need to build a service

- Payload, select a profile
- Exchange, optional for PULL, select profile
- WSDL for SOAP, download Datex2 website

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Using .Net Framework

- Straightforward
- Use .aspx web service or WCF
- For .aspx use wsdl.exe to generate code
- For WCF use svcutil.exe to generate code

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Using .Net Core / .Net 5

- Building Soap Client is supported since .Net Core 3.1
- Building Soap Server has no build in support
- However Soap is just XML and http
- One way is to use SoapCore, a open source project for Soap
 - Install via nuget
- Code generation use dotnet-svcutil, install via nuget [here](#)

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Demo

- Create a Service, SOAP and http Get Server
- Use Exchange 2020, snapshot PULL
- Generate code from Payload, Exchange schema and WSDL
- Use Visual Studio 2019, .Net Core 3.1
- GitHub <https://github.com/DATEX-II-EU/2021-webinar5> /Demo DotNetCore

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Payload profile

Selection

Use tree below ⓘ

- PayloadPublication
 - defaultLanguage
 - feedDescription
 - feedType
 - publicationTime
 - publicationCreator
 - ElaboratedDataPublication
 - MeasuredDataPublication
 - MeasurementSiteTablePublication
 - VmsPublication
 - VmsTablePublication
 - PredefinedLocationsPublication
 - SituationPublication
 - situation
 - Situation
 - overallSeverity
 - situationVersionTime

Previous

Restart

Selection

Use tree below ⓘ

- situationRecord
 - SituationRecord
 - situationRecordCreationReference
 - situationRecordCreationTime
 - situationRecordObservationTime
 - situationRecordVersionTime
 - situationRecordFirstSupplierVersionTime
 - confidentialityOverride
 - probabilityOfOccurrence
 - severity
 - safetyRelatedMessage
 - source
 - validity
 - impact
 - cause
 - generalPublicComment

Previous

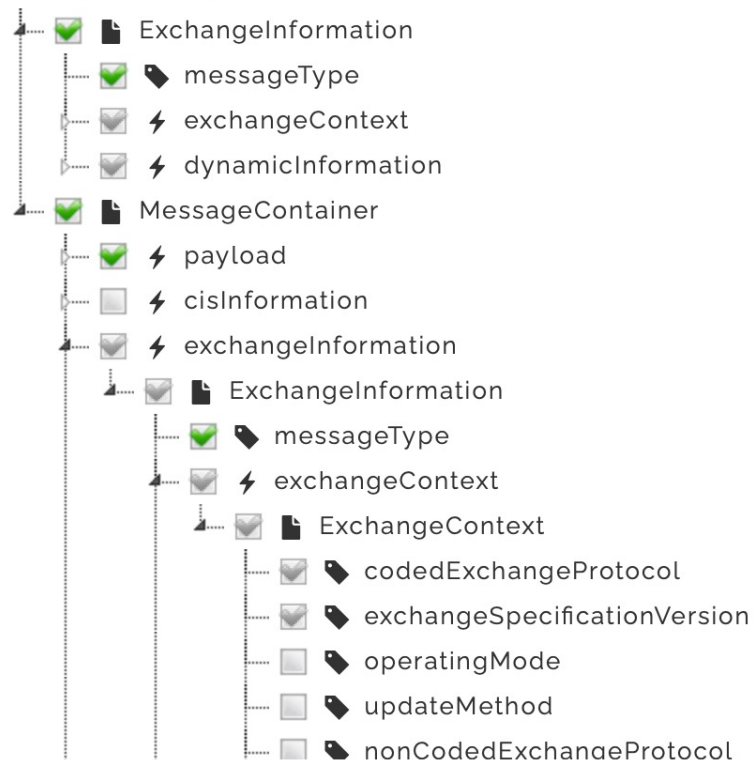
Restart

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Exchange profile

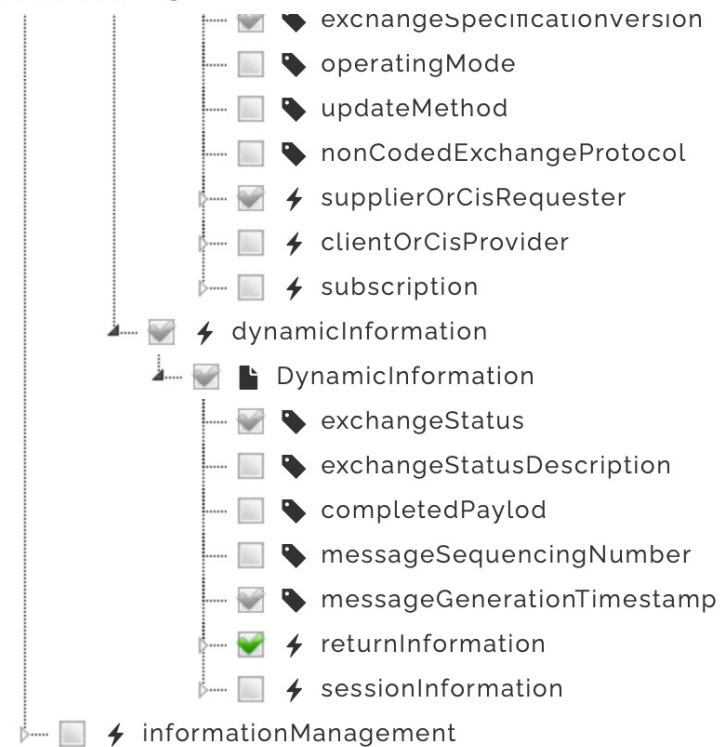
Selection

Use tree below ⓘ



Selection

Use tree below ⓘ



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Thank you

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