***Tech Notes***

# Local Debug & Envs

## UI

setup for local Debug

*environment.ts*

export const environment = {

production: false,

env: 'dev',

baseUrl: "https://localhost:44392/",

//baseUrl: "https://ngcoreapis-dev-wa.azurewebsites.net/",

B2CAuthority: "https://login.microsoftonline.com/tfp/hermesdevb2c.onmicrosoft.com/B2C\_1\_signup\_in",

B2CPwdResetPolicyURL: "https://login.microsoftonline.com/tfp/hermesdevb2c.onmicrosoft.com/b2c\_1\_pwd\_reset",

B2CPwdResetPolicyName: "b2c\_1\_pwd\_reset",

B2CForgotPwdErrorCode: "AADB2C90118",

B2CClientID: "334b1bc2-4969-4052-b13a-d42da78470d1",

B2CPostLogoutRedirectUri: "https://localhost:44355/",

//B2CPostLogoutRedirectUri: "https://ngcheckin-dev-wa.azurewebsites.net/",

protectedResourceMap: [

['https://localhost:44392/api/orgsgraph', ['https://hermesdevb2c.onmicrosoft.com/nglocalapi/nglocalapi']],

['https://localhost:44392/api/airwaybills', ['https://hermesdevb2c.onmicrosoft.com/nglocalapi/nglocalapi']],

['https://localhost:44392/api/vct', ['https://hermesdevb2c.onmicrosoft.com/nglocalapi/nglocalapi']]

// ],

};

prod - switch Local UI to deployed ‘DEV’ api endpoints Note: don’t change UI Client Id: B2CClientID: "**334b1bc2-4969-4052-b13a-d42da78470d1**",

*environment.ts*

export const environment = {

production: false,

env: 'dev',

baseUrl: "https://ngcoreapis-dev-wa.azurewebsites.net/",

B2CAuthority: "https://login.microsoftonline.com/tfp/hermesdevb2c.onmicrosoft.com/B2C\_1\_signup\_in",

B2CPwdResetPolicyURL: "https://login.microsoftonline.com/tfp/hermesdevb2c.onmicrosoft.com/b2c\_1\_pwd\_reset",

B2CPwdResetPolicyName: "b2c\_1\_pwd\_reset",

B2CForgotPwdErrorCode: "AADB2C90118",

B2CClientID: "334b1bc2-4969-4052-b13a-d42da78470d1",

B2CPostLogoutRedirectUri: "https://ngcheckin-dev-wa.azurewebsites.net/",

protectedResourceMap: [

['https://ngcoreapis-dev-wa.azurewebsites.net/api/orgsgraph', ['https://hermesdevb2c.onmicrosoft.com/ngdevapi/ngapi']],

['https://ngcoreapis-dev-wa.azurewebsites.net/api/airwaybills', ['https://hermesdevb2c.onmicrosoft.com/ngdevapi/ngapi']],

['https://ngcoreapis-dev-wa.azurewebsites.net/api/vct', ['https://hermesdevb2c.onmicrosoft.com/ngdevapi/ngapi']]

]

};

# UI Layer

‘**Dev**’ **env:** service plan: **ng-dev-asp** app serice: **ngcheckin-dev-wa**

**Project properties**

**IIS Express**

Environment variables: "ASPNETCORE\_ENVIRONMENT": "Local"

Web Server Settings: **https://localhost:44355/**

## vs setup

**Environment files** contain all configurable application settings

- each environment (**dev**, **test**, **prod**) will have a separate file in folder **/ClientApp/src/environments/**

- each file named with env postfix (environment.ts | environment.**test**.ts | environment.**prod**.ts )

*example:* *environment.ts*

export const environment = {

production: false,

env: 'dev',

baseUrl: "https://localhost:44392/",

B2CAuthority: "https://login.microsoftonline.com/tfp/hermesdevb2c.onmicrosoft.com/B2C\_1\_signup\_in",

B2CPwdResetPolicyURL: "https://login.microsoftonline.com/tfp/hermesdevb2c.onmicrosoft.com/b2c\_1\_pwd\_reset",

B2CPwdResetPolicyName: "b2c\_1\_pwd\_reset",

B2CForgotPwdErrorCode: "AADB2C90118",

B2CClientID: "bde5bded-25ba-4689-ac11-cb51d677fbd0",

B2CPostLogoutRedirectUri: "https://localhost:44355/",

protectedResourceMap: [

['https://localhost:44392/api/orgsgraph', ['https://hermesdevb2c.onmicrosoft.com/ngdevapi/ngapi']],

['https://localhost:44392/api/airwaybills', ['https://hermesdevb2c.onmicrosoft.com/ngdevapi/ngapi']],

['https://localhost:44392/api/vct', ['https://hermesdevb2c.onmicrosoft.com/ngdevapi/ngapi']]

]

};

can change the configuration of the development environment.ts as required.

Note: only check in changes to environment files if appropriate for rest of the teams needs

### old Manual Switching to Debug Technique

aim to step into local API controllers

\*\* switch **ON** plugin Allow-Control-Allow-Origin

switch to localhost

**main**.ts > export function getBaseUrl() { return - switch to local version [line 8]

**app.module**.ts > export const protectedResourceMap - switch to local version [line 34]

typical *main.ts*

...

export function getBaseUrl() {

~~//return "https://hngcoreapis-dev-wa.azurewebsites.net/"; //old~~

//return "https://ngcoreapis-dev-wa.azurewebsites.net/"; //DEV env

return "https://localhost:44392/"; //LOCAL

}

typical *app.module.ts*

//DEV env

//export const protectedResourceMap: [string, string[]][] = [

// ['https://ngcoreapis-dev-wa.azurewebsites.net/api/orgsgraph', ['https://hermesdevb2c.onmicrosoft.com/ngdevapi/ngapi']],

// ['https://ngcoreapis-dev-wa.azurewebsites.net/api/airwaybills', ['https://hermesdevb2c.onmicrosoft.com/ngdevapi/ngapi']],

// ['https://ngcoreapis-dev-wa.azurewebsites.net/api/vct', ['https://hermesdevb2c.onmicrosoft.com/ngdevapi/ngapi']]

//];

//LOCAL env

export const protectedResourceMap: [string, string[]][] = [

['https://localhost:44392/api/orgsgraph', ['https://hermesdevb2c.onmicrosoft.com/ngdevapi/ngapi']],

['https://localhost:44392/api/airwaybills', ['https://hermesdevb2c.onmicrosoft.com/ngdevapi/ngapi']],

['https://localhost:44392/api/vct', ['https://hermesdevb2c.onmicrosoft.com/ngdevapi/ngapi']]

];

***Key Files for dev end***

\HermesNextGen\eCheckInUI\Properties\launchSettings.json - profiles specify env Variables - "ASPNETCORE\_ENVIRONMENT": "Development"

\HermesNextGen\appsettings.dev.json

***Local env***

\HermesNextGen\eCheckInUI\ClientApp\src\**environments**\environment.ts

export const environment = {

production: false,

B2CAuthority: "https://login.microsoftonline.com/tfp/hermesdevb2c.onmicrosoft.com/B2C\_1\_signup\_in\_b2c",

B2CClientID: "bde5bded-25ba-4689-ac11-cb51d677fbd0",

B2CPostLogoutRedirectUri: "https://localhost:44355/"

};

***DEV integration env***

currently -prod switches to \HermesNextGen\eCheckInUI\ClientApp\src\**environments**\environment.prod.ts

export const environment = {

production: true,

B2CAuthority: "https://login.microsoftonline.com/tfp/hermesdevb2c.onmicrosoft.com/B2C\_1\_signup\_in",

B2CClientID: "e07fec6c-fa7d-4c62-aef3-14be91dcf8e2",

B2CPostLogoutRedirectUri: "https://nguiapp-dev-wa.azurewebsites.net/"

};

## Switch to Mock XHR interceptors

uncomment the MockXHRInterceptor provider

*\app.module.ts*

@NgModule({

...

providers: [

...

//{

// provide: HTTP\_INTERCEPTORS,

// useClass: MockXHRInterceptor,

// multi: true

//}

],

# API Layer

## Azure setup

***Client Ids***

hermesdevb2c (directory/tennant) > search ‘b2c’ - services: Azure AD B2C > applications > can see the **Client Ids** (Application Ids)

B2CClientID: "bde5bded-25ba-4689-ac11-cb51d677fbd0",

core.js:1449 ERROR Error: Uncaught (in promise): AADB2C90205: This application does not have sufficient permissions against this web resource to perform the operation.

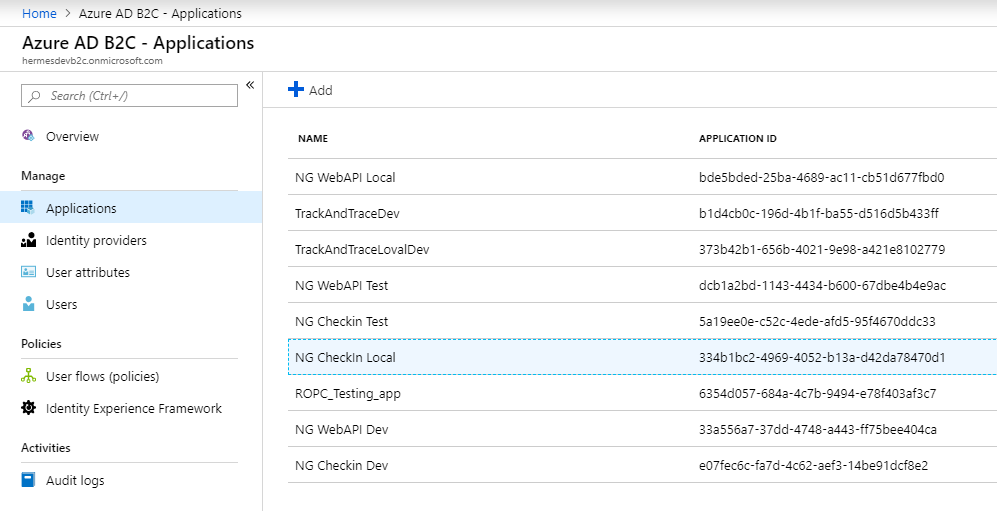
**ensure UI environment & CoreAPI appsettings use Local**

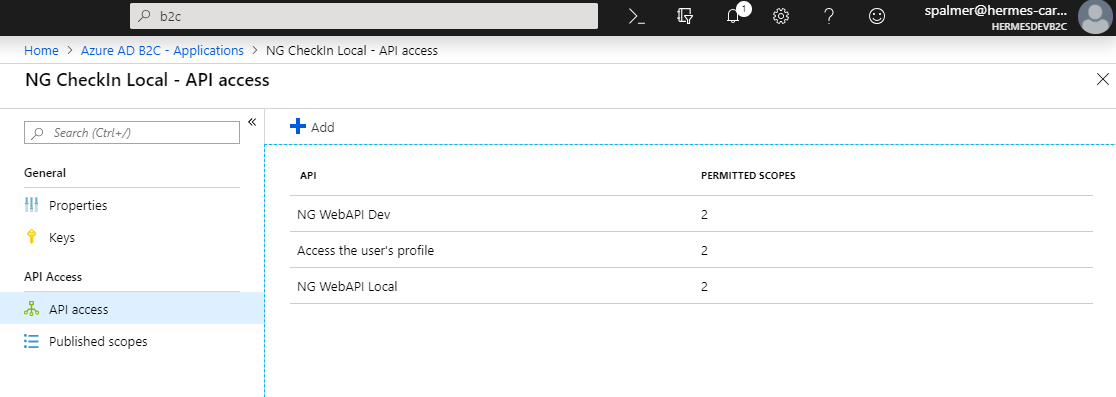
NG **CheckIn Local** **334b1bc2-4969-4052-b13a-d42da78470d1**

NG **Checkin Dev** e07fec6c-fa7d-4c62-aef3-14be91dcf8e2

NG **WebAPI Local** **bde5bded-25ba-4689-ac11-cb51d677fbd0**

NG **WebAPI Dev** 33a556a7-37dd-4748-a443-ff75bee404ca





## Switch Local Debug

aim to step throught the api controllers

*\HermesNGAPIs\appsettings.json*

{

"Logging": {

"IncludeScopes": false,

"Debug": {

"LogLevel": {

"Default": "Warning"

}

},

"Console": {

"LogLevel": {

"Default": "Warning"

}

}

},

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

//Please keep sections and settings ordered alphabetically - it makes it much easier to crosscheck with release variables!

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

"AzureAdB2C": {

"AadInstance": "https://login.microsoftonline.com/{0}/v2.0/.well-known/openid-configuration?p={1}",

"AuthorityURL": "https://login.microsoftonline.com",

"ClientId": "bde5bded-25ba-4689-ac11-cb51d677fbd0",

"GraphClientId": "6dd0df60-d619-4705-bcf3-089c9927e918",

"GraphClientSecret": "Gb6plTukGfKH5U+3vZPd/nGfXguPtYYCELR7yhir2Ow=",

"PostLogoutRedirectUri": "https://localhost:44392/",

"SignInPolicyId": "B2C\_1\_b2c\_1\_sign\_in",

"SignUpPolicyId": "B2C\_1\_b2c\_1\_sign\_up",

"SignUpSignInPolicyId": "B2C\_1\_signup\_in\_b2c",

"Tenant": "hermesdevb2c.onmicrosoft.com"

},

"Configuration": {

"Version": "LOCAL"

},

"CORS": {

"AllowedOrigin": "https://localhost:44355"

},

"CosmosDB": {

"CheckInDBName": "checkin",

"FSUMsgCollectionName": "fsumsgs",

"FWBMsgCollectionName": "fwbmsgs",

"PickUpVCTRequestsCollectionName": "pickupvctrequests",

"VCTRequestsCollectionName": "vctrequests"

},

"CosmosDBGraph": {

"AuthKey": "jDbOSEd9UT1oGP07zFxKddaoj5pJeWqC8k62EzHD9uRFCFy7I88QxcDNx31l4A17ngtrgIL9bUAxzfeIbOuK0A==",

"Collection": "orgslayout",

"Database": "hermesgraph",

"Hostname": "hermesorgs.gremlin.cosmosdb.azure.com",

"Port": "443"

},

"KeyVault": {

"DBKeySuffix": "-key",

"DBUriSuffix": "-uri",

"KeyVaultURI": "https://ng-dev-kv.vault.azure.net/"

},

"QueueNames": {

"Q\_AirWayBills": "q\_airwaybills",

"Q\_PickUpVCTRequests": "q\_pickupvctrequests",

"Q\_VCTRequests": "q\_vctrequests"

},

"ServiceBusConfiguration": {

"ConnectionString": "Endpoint=sb://ng-dev.servicebus.windows.net/;SharedAccessKeyName=RootManageSharedAccessKey;SharedAccessKey=++j7RqUaQ2Bf0uIOTLRRm3QaAJybH/g37nxiz0LQO9o="

}

}

***Key Files***

\HermesNGAPIs\Properties\launchSettings.json - profiles specify the environent Variables - "ASPNETCORE\_ENVIRONMENT": "dev"

- switch ASPNETCORE\_ENVIRONMENT from ‘local’ to ‘dev’

\HermesNGAPIs\Controllers\VctController.cs - //[Authorize]

\Data\AirwayBillsCosmosDBContext.cs - switch MaxItemCount = 2

profile: IIS Express vs HermesNGAPI vs Dev - cf Key Files section

select profile: **dev**

typical **appsettings.dev**.json (the old way)

{

"Logging": {

"IncludeScopes": false,

"Debug": {

"LogLevel": {

"Default": "Warning"

}

},

"Console": {

"LogLevel": {

"Default": "Warning"

}

}

},

"ServiceBusConfiguration": {

"ConnectionString": "Endpoint=sb://ng-dev.servicebus.windows.net/;SharedAccessKeyName=RootManageSharedAccessKey;SharedAccessKey=++j7RqUaQ2Bf0uIOTLRRm3QaAJybH/g37nxiz0LQO9o="

},

"QueueNames": {

"Q\_AirWayBills": "q\_airwaybills",

"Q\_VCTRequests": "q\_vctrequests"

},

"AzureAdB2C": {

"ClientId": "33a556a7-37dd-4748-a443-ff75bee404ca",

"Tenant": "hermesdevb2c.onmicrosoft.com",

"AadInstance": "https://login.microsoftonline.com/{0}/v2.0/.well-known/openid-configuration?p={1}",

"PostLogoutRedirectUri": "https://localhost:44392/",

"SignUpPolicyId": "B2C\_1\_b2c\_1\_sign\_up",

"SignInPolicyId": "B2C\_1\_b2c\_1\_sign\_in",

"SignUpSignInPolicyId": "B2C\_1\_signup\_in\_b2c",

"GraphClientId": "6dd0df60-d619-4705-bcf3-089c9927e918",

"GraphClientSecret": "Gb6plTukGfKH5U+3vZPd/nGfXguPtYYCELR7yhir2Ow="

},

"KeyVault": { /\* same as old \*/

"KeyVaultURI": "https://ng-dev-kv.vault.azure.net/",

"DBKeySuffix": "-key",

"DBUriSuffix": "-uri"

},

"CustomClaims": { /\* same as old \*/

"DBStore": "extension\_DBStore",

"OrganizationId": "extension\_OrganizationId",

"OrganizationIdADStyle": "extension\_9a0f97ae58b34369b9241e3d4ca3e329\_OrganizationId",

"OrganizationName": "extension\_OrganizationName",

"OrganizationNameADStyle": "extension\_9a0f97ae58b34369b9241e3d4ca3e329\_OrganizationName"

},

"CosmosDBGraph": { /\* same as old \*/

"Hostname": "hermesorgs.gremlin.cosmosdb.azure.com",

"Port": "443",

"AuthKey": "jDbOSEd9UT1oGP07zFxKddaoj5pJeWqC8k62EzHD9uRFCFy7I88QxcDNx31l4A17ngtrgIL9bUAxzfeIbOuK0A==",

"Database": "hermesgraph",

"Collection": "orgslayout"

},

"CosmosDB": {

"CheckInDBName": "checkin", /\* prev ”checking2” \*/

"FWBMsgCollectionName": "fwbmsgs",

"FSUMsgCollectionName": "fsumsgs",

"VCTRequestsCollectionName": "vctrequests"

}

}

### Change Paging Size

..\HermesNGCore\Data\**AirwayBillsCosmosDBContext**.cs

Task<AirwayBillsPaged> GetDropOffAirwayBills

...

var option = new FeedOptions { EnableCrossPartitionQuery = true, MaxItemCount = 10 };

## AWBs

**Get Airway Bill**

***- new endpoint for DropOff AWB***

Paging & location backend api changed (published)

[https://localhost:44392/api/airwaybills/](https://localhost:44392/api/airwaybills/getdropoffairwaybills/dev/172)**[getdropoffairwaybills](https://localhost:44392/api/airwaybills/getdropoffairwaybills/dev/172)**[/dev/172](https://localhost:44392/api/airwaybills/getdropoffairwaybills/dev/172)

https://localhost:44392/api/airwaybills/**getpickupairwaybills**/dev/172

[HttpGet("{groundHandlerId}/{partAWBnumber}")]

***Paging***

API now also supports Paging. Max items returned are 10 (should be made configurable at later point)

> if are more than 10 items, client get Response Header by name "continuationtoken”

> if header present (will be json content), encode it with URI encoding & pass as query string value for "ctkn" to get next batch of 10 & so on...

**ContinuationToken**

{"token":"+RID:fwwvAITMjogSAAAAAAAAAA==#RT:1#TRC:2#FPC:ARIAAAAAAAAAEgAAAAAAAAA=","range":{"min":"","max":"FF"}}

URL encoded (freeformatter)

%7B%22token%22%3A%22%2BRID%3AfwwvAITMjogSAAAAAAAAAA%3D%3D%23RT%3A1%23TRC%3A2%23FPC%3AARIAAAAAAAAAEgAAAAAAAAA%3D%22%2C%22range%22%3A%7B%22min%22%3A%22%22%2C%22max%22%3A%22FF%22%7D%7D

to change max paging items: \HermesNGCore\Data\AirwayBillsCosmosDBContext.cs

var option = new FeedOptions { EnableCrossPartitionQuery = true, MaxItemCount = 10 };

*example: paging* https://localhost:44392/api/airwaybills/getdropoffairwaybills/dev/172**?ctkn=**%7B%22token%22%3A%22%2BRID%3AfwwvAITMjogNAAAAAAAAAA%3D%3D%23RT%3A1%23TRC%3A2%23FPC%3AAQ0AAAAAAAAADQAAAAAAAAA%3D%22%2C%22range%22%3A%7B%22min%22%3A%22%22%2C%22max%22%3A%22FF%22%7D%7D

# Model Layer

## Switch Local Debug

1) Build project - output dll written to: \bin\debug\Models.dll

- build location - C:\AzureDevOps\HermesNextGen\Models\Models\bin\Debug\netstandard2.0

- copy to NuGet area: C:\Users\StevePalmer\.nuget\packages\models\1.0.0\lib\netstandard2.0

2) in other prjs: Dependencies>NuGet >Models - ***rC****lick* properties - change path to your local models dll

*also*

options >debug>General >**□** Enable Just My Code

3) NgCore dependant Prjs (Dependencies > Assemblies) - BusinessLogic, Data, API,

current path for Models (properties) C:\AzureDevOps\HermesNextGen\Models\Models\bin\Debug\netstandard2.0\Models.dll

## Publish Artifact ***tbc…***

# Queues / Service Bus

*Issue:* Azure blade allows queue configuration but no views of queue content messages

***sol:***  https://code.msdn.microsoft.com/windowsapps/Service-Bus-Explorer-f2abca5a

**q\_airwaybills**  Active 16 GB true

**q\_sitamsgs** Active 16 GB true

**q\_vctrequests** Active 16 GB true (accept defaults)

**q\_vcts**  Active 16 GB true

**-dev- connection string**

file > connect > enter connection string: Azure >**Service** Bus >Shared Access Policies >RootManageSharedAccessKey >**Primary Connection String**

Endpoint=sb://ng-dev.servicebus.windows.net/;SharedAccessKeyName=RootManageSharedAccessKey;SharedAccessKey=++j7RqUaQ2Bf0uIOTLRRm3QaAJybH/g37nxiz0LQO9o=

old connection string

Endpoint=sb://hermesng-dev.servicebus.windows.net/;SharedAccessKeyName=RootManageSharedAccessKey;SharedAccessKey=cWtfIE63pkyZQ2vqk543sHQxrmnVvgIykRuUQWIqB3o=

***Issue:*** forgets connect string each time:

# Azure Functions

## Switch Local Debug

profile:

select profile: **AzFuncProfile**

executable

dotnet.exe

%userprofile%\AppData\Roaming\npm\node\_modules\azure-functions-core-tools\bin\func.dll host start

KeyVault:

***tbc… also need KeyVault entry for LocalDB***

typical local.settings.json

{

"version": "2.0",

"IsEncrypted": false,

"Values": {

"AzureWebJobsStorage": "DefaultEndpointsProtocol=https;AccountName=hermesngdev;AccountKey=F6Yk5ytfyQ4YxekJgAWbDjDN7zRUyQ7y3bnbG3Qr4mo9WK843yXObEnVfhLeQa0JTDW6gxPshwRO2BvDOAbFTw==;BlobEndpoint=https://hermesngdev.blob.core.windows.net/;TableEndpoint=https://hermesngdev.table.core.windows.net/;QueueEndpoint=https://hermesngdev.queue.core.windows.net/;FileEndpoint=https://hermesngdev.file.core.windows.net/",

"AzureWebJobsDashboard": "DefaultEndpointsProtocol=https;AccountName=hermesngdev;AccountKey=F6Yk5ytfyQ4YxekJgAWbDjDN7zRUyQ7y3bnbG3Qr4mo9WK843yXObEnVfhLeQa0JTDW6gxPshwRO2BvDOAbFTw==;BlobEndpoint=https://hermesngdev.blob.core.windows.net/;TableEndpoint=https://hermesngdev.table.core.windows.net/;QueueEndpoint=https://hermesngdev.queue.core.windows.net/;FileEndpoint=https://hermesngdev.file.core.windows.net/",

//"SBConnectionString": "Endpoint=sb://hermesng-dev.servicebus.windows.net/;SharedAccessKeyName=RootManageSharedAccessKey;SharedAccessKey=cWtfIE63pkyZQ2vqk543sHQxrmnVvgIykRuUQWIqB3o=",

"SBConnectionString": "Endpoint=sb://ng-dev.servicebus.windows.net/;SharedAccessKeyName=RootManageSharedAccessKey;SharedAccessKey=++j7RqUaQ2Bf0uIOTLRRm3QaAJybH/g37nxiz0LQO9o=",

"CosmosDBConnection": "AccountEndpoint=https://hermesngcx.documents.azure.com:443/;AccountKey=BmLH7qLDNb0jwa5kLrjl6tWal1Jmzym9XOrI83AKa3HsZvLaj3hcIRLcJlMHEbKaYOyYF9OkLnjUveffKZ6LLw==;",

"AzureSignalRConnectionString": "Endpoint=https://hngtt-dev-sr.service.signalr.net;AccessKey=i3AN09MhuRY59z40v8XAdFFRCHvkAtrnmUxLvmY6wHU=;Version=1.0;",

"FUNCTIONS\_WORKER\_RUNTIME": "dotnet",

// Queue names

"FWBMsgQueueName": "q\_fwbmsgs",

"FSUMsgQueueName": "q\_fsumsgs",

"VCTRequestsQueueName": "q\_vctrequests",

"VCTsQueueName": "q\_vcts",

//DB & Collections

"CheckInDatabaseName": "checkin",

"FWBMsgCollectionName": "sitamsgs",

"SITAStatusDatabaseName": "sitastatus",

"SITAStatusCollectionName": "fsus",

"RequestVCTCollectionName": "vctrequests",

// Hybrid Connections / Relay

"RelayNamespace": "HermesNGRelay.servicebus.windows.net",

"KeyName": "HermesNGHCPolicy",

// KeyVault

"KeyVaultURI": "https://ng-dev-kv.vault.azure.net/"

}

}

***VCT Request Messages***

Mock inputs - can either drop messages straight into Message Bus (configure a new message bus for local **q\_vct\_steve**), or fire via postman

**Service Bus Explorer** >actions >**send message**  queue: **q\_vctrequests**

<?xml version='1.0' encoding='utf-8'?>

<EXPORT\_CARGO\_DELIVERY>

<REFERENCE>7bd039af-c9ee-4b02-af94-5d9c43c12e36</REFERENCE>

<VCT>30000287010001</VCT>

</EXPORT\_CARGO\_DELIVERY>

**Postman**

<http://localhost:7071/admin/functions/RequestExportVCTUpdate>

headers

Content-Type application/json

body >raw

{

"input": "<?xml version='1.0' encoding='utf-8'?>

<EXPORT\_CARGO\_DELIVERY>

<REFERENCE>b5bcf571-6d7c-48fa-a366-3a7ad7146546</REFERENCE>

<VCT>30000287010452</VCT>

</EXPORT\_CARGO\_DELIVERY>"

}

Message Properties

GroundHandlerId : dev

**Test Data**

<?xml version='1.0' encoding='utf-8'?>

<EXPORT\_CARGO\_DELIVERY>

<REFERENCE>6302eafe-7815-4d6f-ac98-61184dc2d046</REFERENCE>

<VCT>30000287010001</VCT>

</EXPORT\_CARGO\_DELIVERY>

GroundHandlerId : dev

{

"input": "<?xml version='1.0' encoding='utf-8'?>

<EXPORT\_CARGO\_DELIVERY>

<REFERENCE>6302eafe-7815-4d6f-ac98-61184dc2d046</REFERENCE>

<VCT>30000287010701</VCT>

</EXPORT\_CARGO\_DELIVERY>"

}

**Issues**

***Issue:*** LocalSettings.json (getting local debug env working)

***Sol:*** ensure specify dotnet

"Values": {

...

"FUNCTIONS\_WORKER\_RUNTIME": "dotnet"

}

***Issue:*** Azure Function Debug - Breakpoints not working (Error: symbols not loaded)

***Sol:*** Visual Studio >Debug >Windows >Modules >Load All Symbols (takes a while, writes to user area)

***Issue:*** Firing via Postman ”The given key 'GroundHandlerId' was not present in the dictionary.”

??… Need way to add Message properties into a Postman request

***Issue:*** Cross Partition query required, but is disabled (issue with querying CosmosDB)

***Sol:*** pass in option object with property set

var option = new FeedOptions { EnableCrossPartitionQuery = true };

...

Document doc = docClient.CreateDocumentQuery<Document>(collectionLink, option)

***Trace & Trace Messages***

queue: **q\_fsumsgs**

FSU/12

175-54061986JFKLUX/T1K10.0

DEP/14NOV0620/LUX/T1K10.0

# CosmosDB Layer

## Document

**Useful queries**

Note: field name caSe sensitive Note: collection alias c, can be anything..

**VCTs**

SELECT \* FROM c

ORDER BY c.\_ts DESC

WHERE c.originator = "43d4cfc8-f3ca-47a9-8152-f25d96d525f5" ORDER BY c.\_ts DESC

WHERE c.originator = "43d4cfc8-f3ca-47a9-8152-f25d96d525f5" AND c.vctRequestStatus = 1 ORDER BY c.\_ts DESC

**AWBs**

**drop-off**

WHERE c.agentInfo.agentIATAAddress = "1330014" ORDER BY c.\_ts DESC

WHERE c.agentInfo.agentIATAAddress = "1330014" AND c.origin = "LHR" ORDER BY c.\_ts DESC

**pickup**

WHERE c.agentInfo.agentIATAAddress = "1330014" ORDER BY c.\_ts DESC

WHERE c.agentInfo.agentIATAAddress = "1330014" AND c.destination = "LHR" ORDER BY c.\_ts DESC

## Graph

id:13

label:User

Name:Steve

ADId:43d4cfc8-f3ca-47a9-8152-f25d96d525f5

email:spalmer@hermes-cargo.com

Agent Id:'**1330014**' (prev: 1330005)

Location:'LHR'

***Sql Query***

SELECT \* FROM c WHERE c.id = "13"

SELECT \* FROM c WHERE c.id = "14"

SELECT \* FROM c WHERE c.id = "19"

SELECT \* FROM c WHERE c.id = "dev"

SELECT c.Location FROM c WHERE c.Location[0].\_value = "LHR"

## Azure Graph Explorer tool *(opensource)*

https://github.com/Azure-Samples/azure-cosmos-db-dotnet-graphexplorer

C:\work\_area\azure-cosmos-db-dotnet-graphexplorer-master\Web\**GraphExplorer.sln**

*appsettings.json*

"DocumentDBConfig": {

"endpoint": "https://hermesorgs.documents.azure.com:443/",

"authKey": "jDbOSEd9UT1oGP07zFxKddaoj5pJeWqC8k62EzHD9uRFCFy7I88QxcDNx31l4A17ngtrgIL9bUAxzfeIbOuK0A==",

"database": "hermesgraph"

},

**Issues:** Cannot find name 'AbortSignal'

**Sol:** AbortSignal interface wwas added to [typescript@2.7.0](mailto:typescript@2.7.0) - package.json increment *ts* to ^2.7.0

cd .\GraphExplorer\

npm i

then.. usual Visual Studio *f5* to run

# Source Control & Build

## TFVC Merge Branches

***Investigate Checking History***

changesets numers used across all branches.. to see changesets for specific branches, vs **Source Control Explorer > *rC****lick***View History**

Think: will see gaps in changeset numbers where not part of current branch

can select rows in *history* & ***rC****lick* Compare - drill down to each file > ***rC****lick* compare

***Dev / Story / Feature Isolation***

***20,000 ft***

***Main*** (**F**orward **I**ntegrate) to ***Branch*** - **resolve conflicts** then..(**R**everse **I**ntegrate) back to ***Main***

***Detail***

***Pre:*** check app build & run ok in Main

***1)* Main** - pull down latest changes - ***rC****lick* ‘Get Latest Version’

***2)*** Merge into **[User]-Branch** - resolve conflicts - clean & build soln - check app running ok - **Commit**

file >source control >**Branching & Merging** >Merge

***3)*** Merge back to **Main**  - clean & build soln - check app running ok - **Commit**

*Ongoing issues:*

***1)*** prj HermesNGApi build failing - remove & re-add dependencies **B2CGraphClient** & **NG.BusinessLogic**

# Publish / Deployment

***Manual Publish (Visual Studio)***

Publish profile (name gets autonamed, can rename)

**Connection**

publish method: web Deploy

server: ngcheckin-dev-wa.scm.azurewebsites.net:443 Resource Group: NG-Dev UK South

site name: ngcheckin-dev-wa

user name: $ngcheckin-dev-wa

destination url: <https://ngcheckin-dev-wa.azurewebsites.net> (validate connection)

**Settings**

confiuration: release

target fw: netvoreapp2.1

deployment mode: fw-dependant

target runtime: portible

***ToDo***

1. **Publish process to DEV env - switch to production:false**

***In progress.. get redirect issues on login (back to a localhost!!)***

\*\* manually switch at the moment

<Exec WorkingDirectory="$(SpaRoot)" Command="npm run build" />

<Exec WorkingDirectory="$(SpaRoot)" Command="npm run build -- --prod" -->

https://docs.microsoft.com/en-us/aspnet/core/client-side/spa-services?view=aspnetcore-2.2#publishing-the-application

HermesNextGen\eCheckInUI\**eCheckInUI**.csproj

...

<Target Name="PublishRunWebpack" AfterTargets="ComputeFilesToPublish">

<!-- As part of publishing, ensure the JS resources are freshly built in production mode -->

<Exec WorkingDirectory="$(SpaRoot)" Command="npm install" />

<Exec WorkingDirectory="$(SpaRoot)" Command="npm run build -- --prod" />

<Exec WorkingDirectory="$(SpaRoot)" Command="npm run build:ssr -- --prod" Condition=" '$(BuildServerSideRenderer)' == 'true' " />

<!-- Include the newly-built files in the publish output -->

<ItemGroup>

<DistFiles Include="$(SpaRoot)dist\\*\*; $(SpaRoot)dist-server\\*\*" />

<DistFiles Include="$(SpaRoot)node\_modules\\*\*" Condition="'$(BuildServerSideRenderer)' == 'true'" />

<ResolvedFileToPublish Include="@(DistFiles->'%(FullPath)')" Exclude="@(ResolvedFileToPublish)">

<RelativePath>%(DistFiles.Identity)</RelativePath>

<CopyToPublishDirectory>PreserveNewest</CopyToPublishDirectory>

</ResolvedFileToPublish>

</ItemGroup>

</Target>

# Appendix

## Encoding BlockerTesting

*JSON:* {"basic":"string"}

freeFormater.com & asp.net core %7B%22basic%22%3A%22string%22%7D

Ng 5.2 %7B%22basic%22:%22string%22%7D (incorrect)

Angular pending fix - PR Issue #19710: %7B%22basic%22%3A%22string%22%7D (correct)

\*\* Hermes app custom encoder %7B%22basic%22%3A%22string%22%7D (correct)

JSON: {"extra":"a:b,c=d"}

freeFormater.com & asp.net core %7B%22extra%22%3A%22a%3Ab%2Cc%3Dd%22%7D

Ng 5.2 %7B%22extra%22:%22a:b,c=d%22%7D (incorrect)

Angular pending fix - PR Issue #19710 %7B%22extra%22%3A%22a%3Ab%2Cc%3Dd%22%7D (correct)

\*\* Hermes app custom encoder %7B%22extra%22%3A%22a%3Ab%2Cc%3Dd%22%7D (correct)

Code used to test

<!--<button pButton type="button" class="ui-button-info"-->

<!--(click)="onCustomUrlSerializerTEST()" icon="fa fa-search" iconPos="left" label="TEST Encoding"></button>-->

// encodeToken(s:String):String{

// return s.replace(/\:/g,"%3A")

// .replace(/\+/g,"%2B")

// .replace(/\=/g,"%3D")

// .replace(/\,/g,"%2C");

// }

// onCustomUrlSerializerTEST () {

// console.info('>>encoding test');

// // const token = {"basic":"string"};

// const token = {"extra":"a:b,c=d"};

//

// // const token = {"token":"+RID:fwwvAITMjogSAAAAAAAAAA==#RT:1#TRC:2#FPC:ARIAAAAAAAAAFgAAAAAAAAA=","range":{"min":"","max":"FF"}};

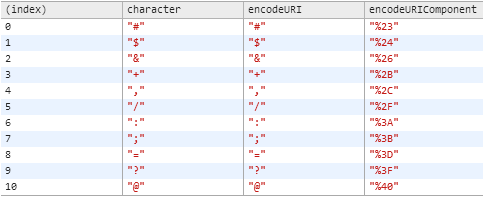
// const params = new HttpParams().set('ctkn', JSON.stringify(token));

// //const params = new HttpParams({fromString: 'ctkn={"token":"+RID:fwwvAITMjogSAAAAAAAAAA==#RT:1#TRC:2#FPC:ARIAAAAAAAAAFgAAAAAAAAA=","range":{"min":"","max":"FF"}}'});

//

// const resp = this.http.get<string>('https://localhost:44392/api/airwaybills/getdropoffairwaybills/dev/177', {params})

// // .map(res => JSON.parse(JSON.stringify(res)))

 // .do(resp => {

// console.log(resp);

// })

// .subscribe(

// data => {

// console.log('XHR call made successfully');

// console.log(data);

// },

// err => {

// console.log("PUT call in error", err);

// }

// );

// }

some example output... just can't get comparable encoding through Angular. httpClient..

**target encoding**

{"token":"+RID:fwwvAITMjogSAAAAAAAAAA==#RT:1#TRC:2#FPC:ARIAAAAAAAAAFgAAAAAAAAA=","range":{"min":"","max":"FF"}}

%7B%22token%22%3A%22%2BRID%3AfwwvAITMjogSAAAAAAAAAA%3D%3D%23RT%3A1%23TRC%3A2%23FPC%3AARIAAAAAAAAAFgAAAAAAAAA%3D%22%2C%22range%22%3A%7B%22min%22%3A%22%22%2C%22max%22%3A%22FF%22%7D%7D

**Native JavaScript** (matches)

%7B%22token%22%3A%22%2BRID%3AfwwvAITMjogSAAAAAAAAAA%3D%3D%23RT%3A1%23TRC%3A2%23FPC%3AARIAAAAAAAAAFgAAAAAAAAA%3D%22%2C%22range%22%3A%7B%22min%22%3A%22%22%2C%22max%22%3A%22FF%22%7D%7D

**Angular httpClient encoding**

**using just raw JSON token**

%7B%22token%22:%22+RID:fwwvAITMjogSAAAAAAAAAA==%23RT:1%23TRC:2%23FPC:ARIAAAAAAAAAFgAAAAAAAAA=%22,%22range%22:%7B%22min%22:%22%22,%22max%22:%22FF%22%7D%7D

**using stringified token**

%22%7B%5C%22token%5C%22:%5C%22+RID:fwwvAITMjogSAAAAAAAAAA==%23RT:1%23TRC:2%23FPC:ARIAAAAAAAAAFgAAAAAAAAA=%5C%22,%5C%22range%5C%22:%7B%5C%22min%5C%22:%5C%22%5C%22,%5C%22max%5C%22:%5C%22FF%5C%22%7D%7D%22

**using manually encodeURIComponent()**

%257B%2522token%2522%253A%2522%252BRID%253AfwwvAITMjogSAAAAAAAAAA%253D%253D%2523RT%253A1%2523TRC%253A2%2523FPC%253AARIAAAAAAAAAFgAAAAAAAAA%253D%2522%252C%2522range%2522%253A%257B%2522min%2522%253A%2522%2522%252C%2522max%2522%253A%2522FF%2522%257D%257D

**using stringified and then manually encodeURIComponent()**

%2522%257B%255C%2522token%255C%2522%253A%255C%2522%252BRID%253AfwwvAITMjogSAAAAAAAAAA%253D%253D%2523RT%253A1%2523TRC%253A2%2523FPC%253AARIAAAAAAAAAFgAAAAAAAAA%253D%255C%2522%252C%255C%2522range%255C%2522%253A%257B%255C%2522min%255C%2522%253A%255C%2522%255C%2522%252C%255C%2522max%255C%2522%253A%255C%2522FF%255C%2522%257D%257D%2522

**using raw token after manual string replacement/encoding for chars +:==,**

%7B%22token%22%253A%22%252BRID%253AfwwvAITMjogSAAAAAAAAAA%253D%253D%23RT%253A1%23TRC%253A2%23FPC%253AARIAAAAAAAAAFgAAAAAAAAA%253D%22%252C%22range%22%253A%7B%22min%22%253A%22%22%252C%22max%22%253A%22FF%22%7D%7D