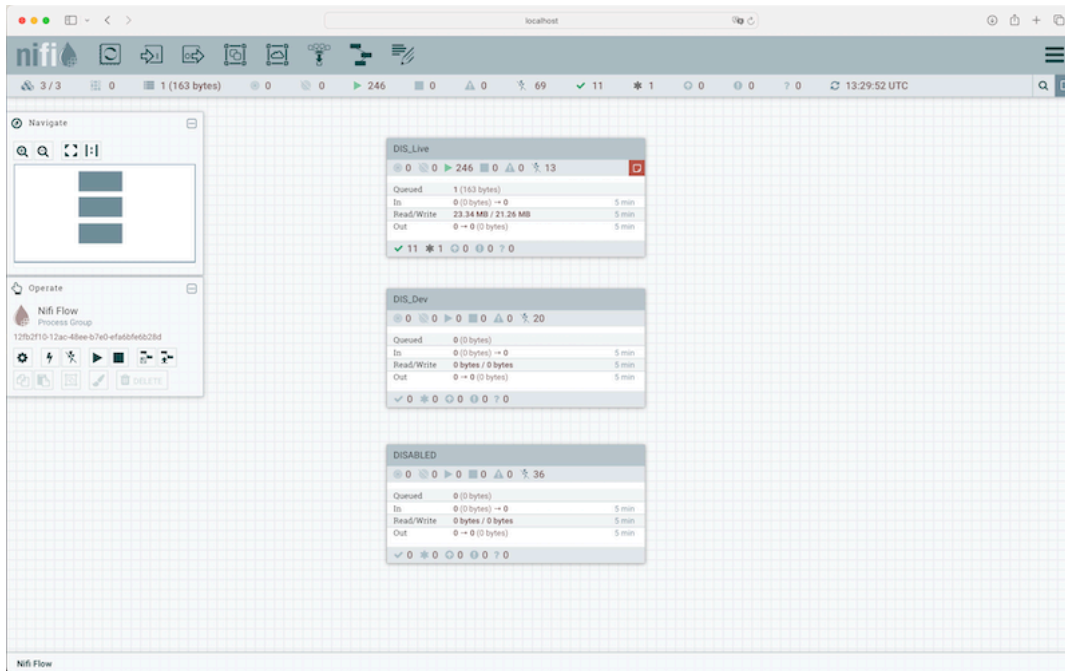


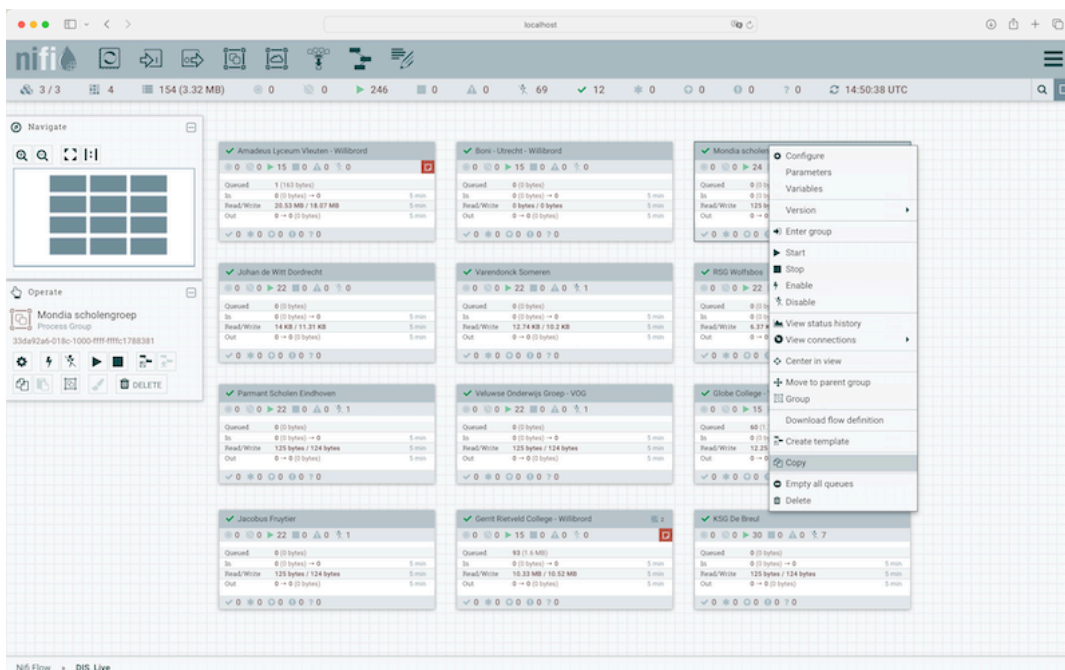
SOP rooster synchronisation Zermelo

Cloning an Existing Processor Group

- Initially, establish a connection to AKS and Apache NiFi by following the "CONNECT-TO-AKS" SOP.
- Access Apache NiFi's interface by navigating to <http://localhost:8080/nifi> in your web browser.

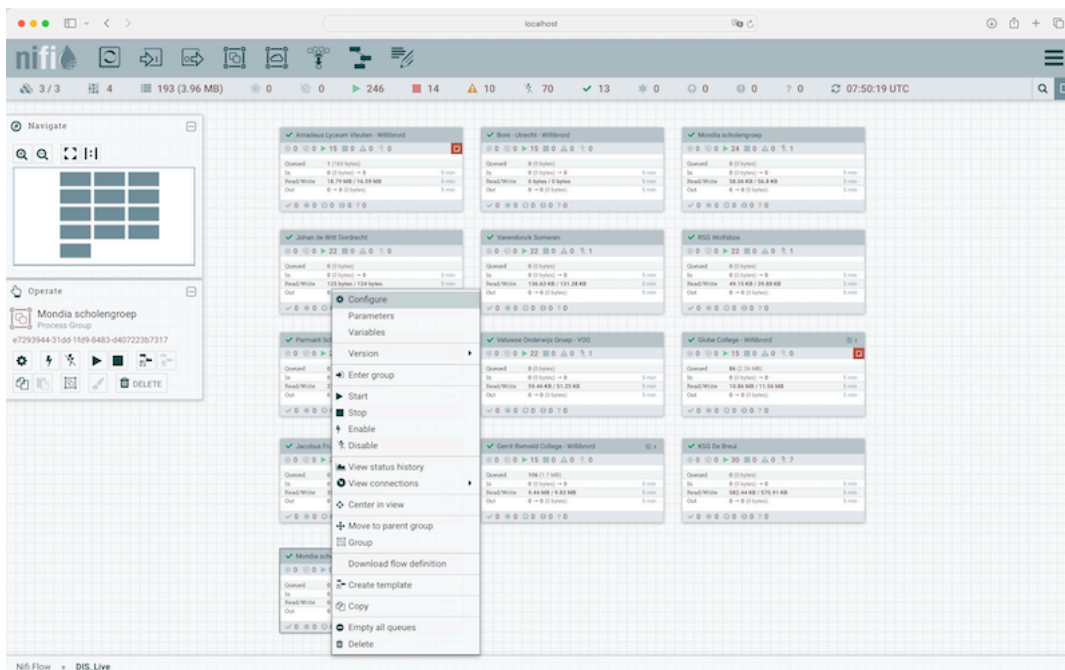


- Locate and select the "DIS_Live" Process Group. From there, choose a specific Process Group, such as "Mondia scholengroep," and duplicate it.

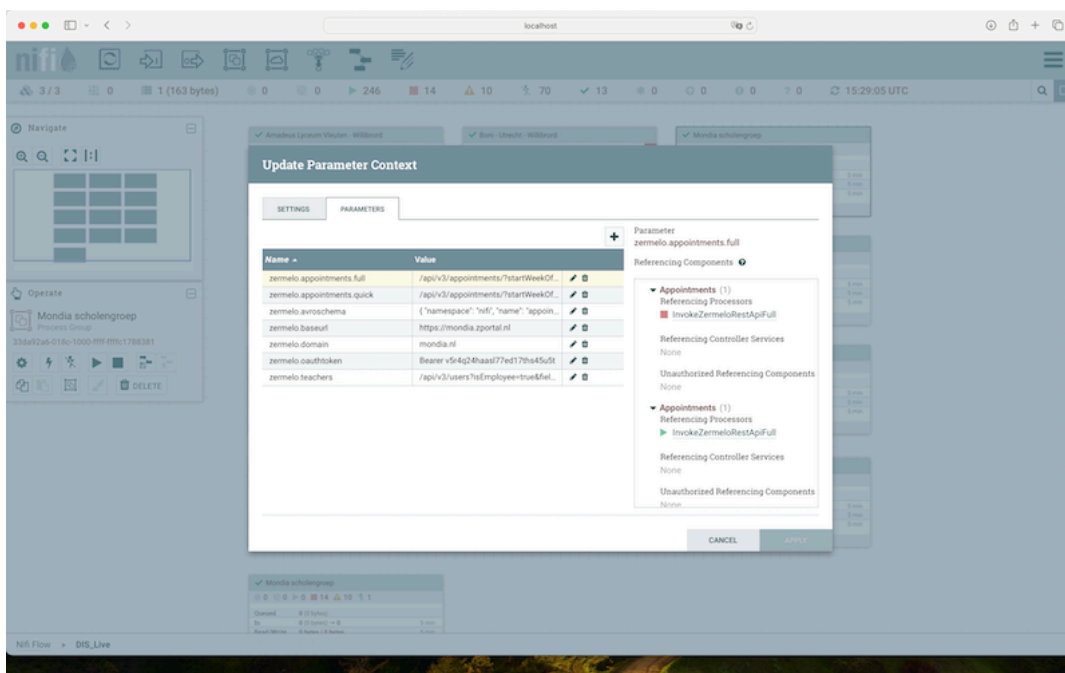


Setting Up a Parameter Context

- After duplicating the Process Group, right-click on it and select "configure" to begin setting it up.



- Assign a name to your Process Group and create a new parameter context for it.

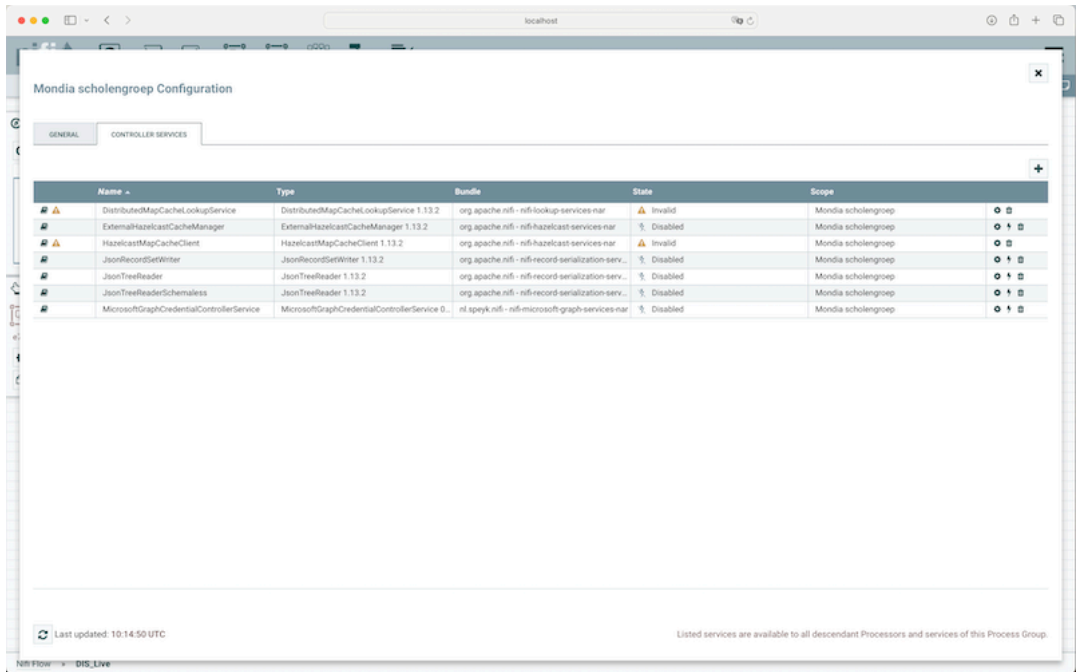


- Define the parameter context by giving it a name and entering the following parameters:

Name	Value
zermelo.appointments.full	/api/v3/appointments/?startWeekOffset=0&endWeekOffset=3&fields=id,valid,appointmentInstance,start,end,startTimeSlotName,endTimeSlotName
zermelo.appointments.quick	/api/v3/appointments/?startWeekOffset=0&endWeekOffset=3&modifiedSince=\${now()}.toNumber().divide(1000).minus(900)&fields=id,valid,appointmentInstance,start,end,startTimeSlotName,endTimeSlotName
zermelo.avroschema	{ "namespace": "nifi", "name": "appointment", "type": "record", "fields": [{ "name": "id", "type": "long" }, { "name": "appointmentInstance", "type": "long", "logicalType": "timestamp-millis" }, { "name": "endDateTime", "type": ["null", "string"] }, { "name": "groups", "type": { "type": "array", "items": { "name": "changeDescription", "type": ["null", "string"] }, { "name": "schedulerRemark", "type": ["null", "string"] }, { "name": "expectedStudentCount", "type": ["null", "string"] }, { "name": "endTimeSlotName", "type": "string" }, { "name": "email", "type": "string" }, { "name": "subjects", "type": { "type": "array", "items": "string", "default": [] } }] }
zermelo.baseurl	https://customer.zportal.nl
zermelo.domain	mondia.nl
zermelo.oauthTokenBearer	Bearer dlvhevtfk8og4hnjun02g14id8
zermelo.teachers	/api/v3/users?isEmployee=true&fields=code,email

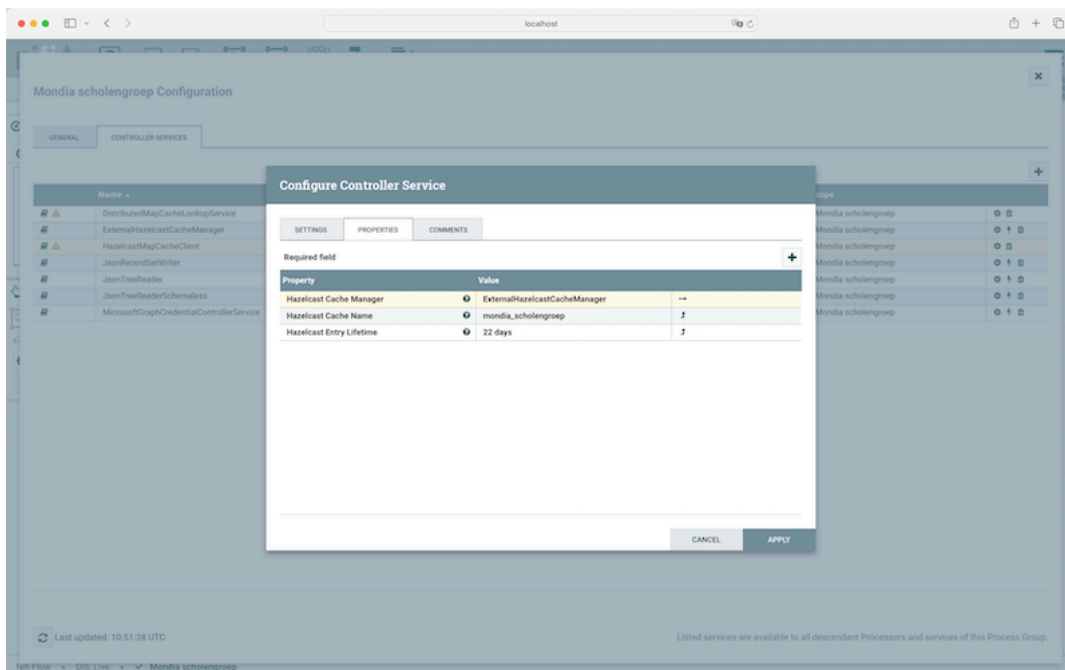
Configure controller services

- Ensure the correct operation of processors by configuring Apache NiFi controller services, including custom SPEYK services. These must be enabled and configured appropriately.
- For the "MicrosoftGraphCredentialControllerService," input the necessary details and activate it.



Property	Value
Auth Grant Type	client_credentials
Auth Client id	014b1961-2082-428a-940d-b5129e6ae9fe
Auth Client Secret	qU-8Q~POFUZbTmbRb0MGC-XqEvFSIAMMaNoiHdAa
Auth Tenant Id	617f0231-3e08-4ebe-a403-3731ed7b9712
Auth Scope	https://graph.microsoft.com/.default

- Enable the following controller services:
 - JsonTreeReaderSchemaless
 - JsonTreeReader
 - JsonRecordSetWriter
 - ExternalHazelcastCacheManager
- Configure and enable the "HazelcastMapCacheClient" with the specified settings.

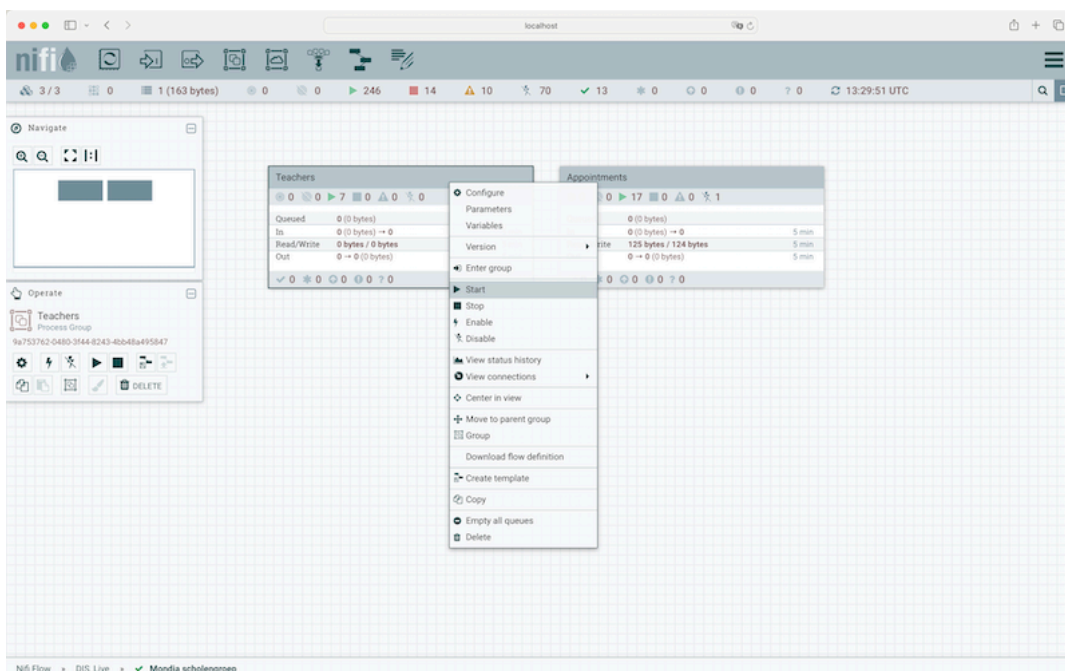


Property	Value
Hazelcast Cache Manager	ExternalHazelcastCacheManager
Hazelcast Cache Name	customer_scholengroep
Hazelcast Entry Lifetime	22 days

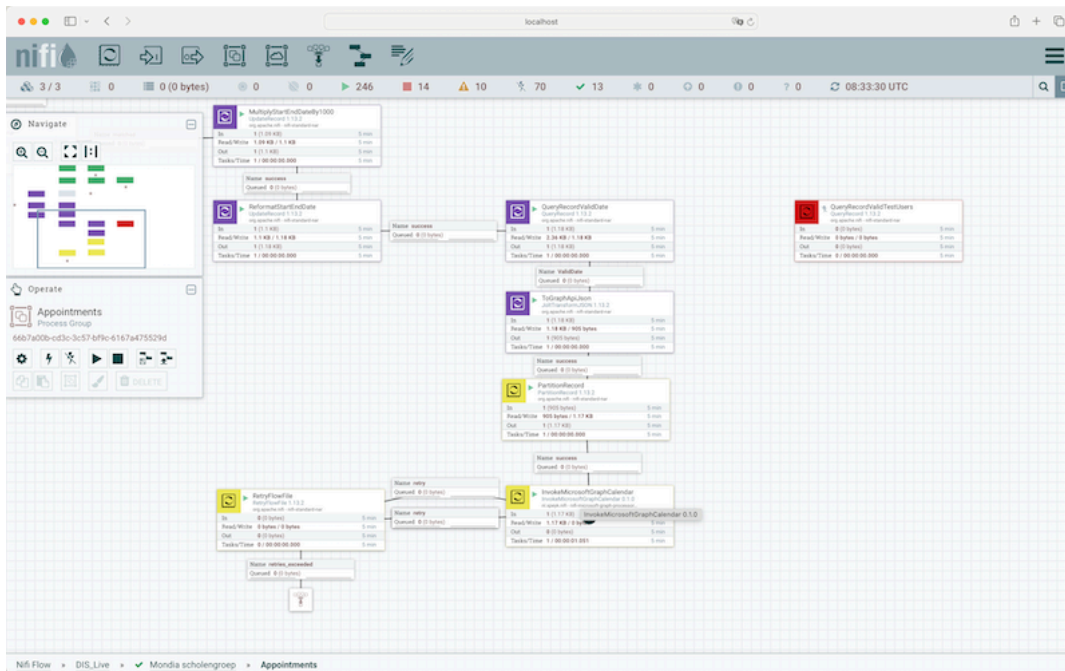
- Also, activate the "DistributedMapCacheLookupService" controller service.

Finalizing the Processor Group Setup

- Within the newly created processor group, initiate the "Teachers" processor by right-clicking on it and selecting "Start."



- Proceed to the "Appointments" processor group, locate the "InvokeRestApiZermeloFull" processor, and access its configuration.



- Adjust its settings accordingly.

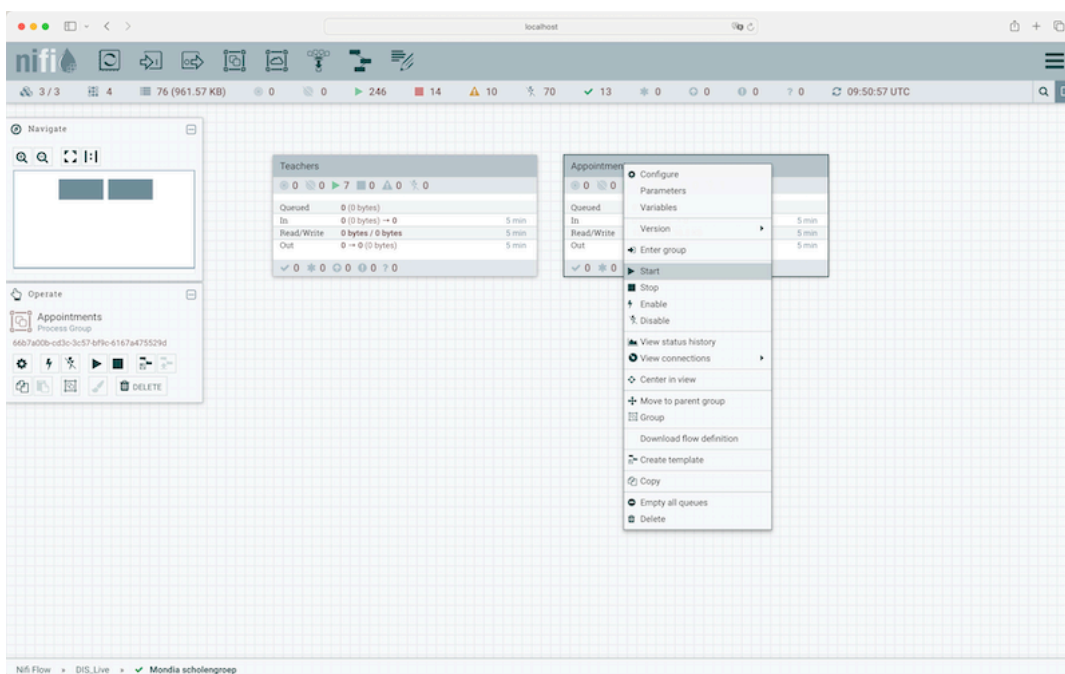
The screenshot shows the 'Processor Details' dialog for the 'InvokeMicrosoftGraphCalendar' processor. The dialog has tabs for 'SETTINGS', 'SCHEDULING', 'PROPERTIES', and 'COMMENTS'. The 'PROPERTIES' tab is active, displaying a table of properties and their values.

Property	Value
Graph Controller Service	MicrosoftGraphCredentialControllerService
Distributed mapcache client	HazelcastMapCacheClient
Rooster System	Zermelo
User Id	\$(upn-name)
Delete events, default is tentative	true
Is Update	\$(is-update)
Weeks in advance, default is 3	3
Rebuild the map cache	false
Zermelo rest api endpoint	https://(naam school).zportal.nl/api/v3/appointments/
Zermelo oauth token	No value set
Zermelo prefix	No value set
Zermelo postfix	[]

The dialog also includes a 'Required field' section and an 'OK' button at the bottom right.

Property	Value
Graph Controller Service	MicrosoftGraphCredentialControllerService
Distributed mapcache client	HazelcastMapCacheClient
Rooster System	Zermelo
User Id	\${'upn-name'}
Delete events, default is tentative	true
Is Update	\${'is-update'}
Weeks in advance, default is 3	3
Rebuild the map cache	false
Zermelo rest api endpoint	https://{naam school}.zportal.nl/api/v3/appointments/
Zermelo oauth token	clvhevtfk8og3hnfie02g14id7
Zermelo prefix	
Zermelo postfix	[!]

- Ensure all processors within the "Appointments" group are activated.



- Completion of these steps successfully configures the synchronization process with Zermelo.