

# **MYRAPIDI** *Product Update - March 2019*



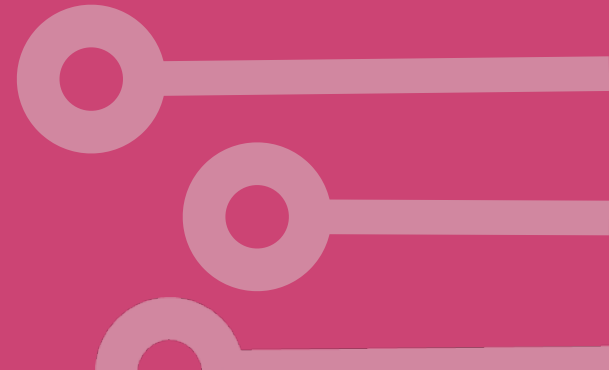
**MICHAEL BOCK**

Founder & Product Development



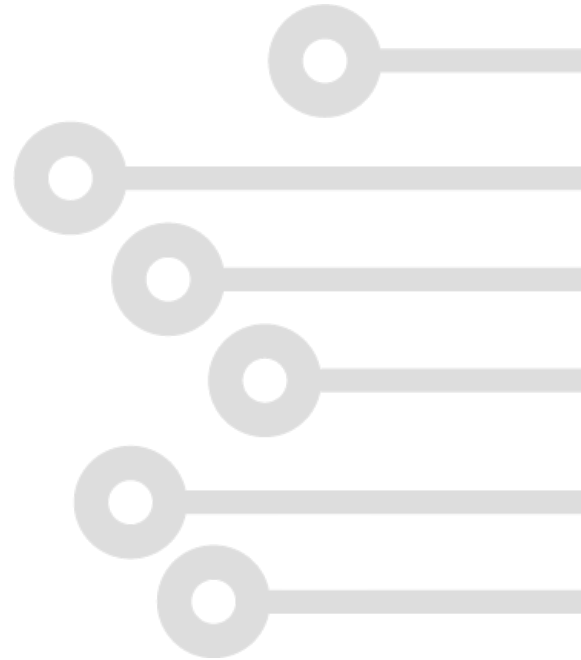
**BEATE H. THOMSEN**

Co-founder & Product Design



# AGENDA

- **Activity History**
- **Service Access Management**
- **Security (Two-factor Authentication)**
- **Microsoft Dynamics 365 OData Connections**
- **Improvements to our Salesforce Connector**
- **Mirror Enhancements**
- **LinkStorage Improvements**
- **REST-based API to MyRapid**
- **Other Changes**
- **Q&A**



# ACTIVITY HISTORY (1)

## Track user logins and changes made in your service

### What is logged?

All Service Editions:

- User Logins - successful (with IP address)
- User Logins - unsuccessful - including reason
- Changes to users, including password change, enable/disable 2FA, create/delete users

Enterprise and Unlimited Editions:

- Changes in Configuration (Transfers/Schedules/Groups/Connections/Tags/RTI/LinkStorage)
- Transfer changes (from/to values) are ONLY logged if transfer has status LIVE or READY
- Change of Transfer Status to/from LIVE or READY is logged

### Filtering on Date Range, Service, Area + free text search

Read more: <https://www.rapidionline.com/product-updates/how-to-work-with-your-activity-history-in-myrapidi>

# ACTIVITY HISTORY (2)

## Scenario: Login failure

Activity History for My Company (BETA)

26-08-2018 11:25 To Date login\_failure json

28-08-2018 13:25	Katrine Hilleson	login_failure	User katrine.hil@mycompany.com login failure from IP address 80.14.24.181 - wrong password.
28-08-2018 13:25	Katrine Hilleson	login_failure	User katrine.hil@mycompany.com login failure from IP address 80.14.24.181 - wrong password.

Activity History for My Company (BETA)

01-09-2018 00:29 To Date User x login\_failure json

03-09-2018 13:28	Katrine Hilleson	User	User Katrine Hilleson (katrine.hil@mycompany.com) login failure from IP address 80.14.24.181 - wrong password.
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Date 03-09-2018 13:28  
User Katrine Hilleson  
Area User  
Action By  
Service  
Description User Katrine Hilleson (katrine.hil@mycompany.com) login failure from IP address 80.14.24.181 - wrong password.  
Details

03-09-2018 13:28	Co-worker Hansen	User	User Co-worker Hansen (co-worker.hansen@mycompany.com) login failure from IP address 80.14.24.181 - wrong password.
01-09-2018 13:27	Katrine Hilleson	User	User Katrine Hilleson (katrine.hil@mycompany.com) login failure from IP address 80.14.24.181 - wrong password.

## Scenario: Changes made on transfer

Activity History for My Company (BETA)

03-09-2018 07:15 To Date MY\_COMPANY\_SF\_NAV\_STD Transf... x CONTACT01\_SF\_ADD json

03-09-2018 13:14	Beate Thomsen	Transfers	Beate Thomsen edited Transfer CONTACT01_SF_ADD Field List (mapping) line 15
03-09-2018 13:14	Beate Thomsen	Transfers	Beate Thomsen edited Transfer CONTACT01_SF_ADD Field List (mapping) line 15
03-09-2018 13:14	Beate Thomsen	Transfers	Beate Thomsen edited Transfer CONTACT01_SF_ADD deleted Field List (mapping) line 14

Date 03-09-2018 13:14  
User Beate Thomsen  
Area Transfers  
Action By Beate Thomsen  
Service MY\_COMPANY\_SF\_NAV\_STD  
Description Beate Thomsen edited Transfer CONTACT01\_SF\_ADD deleted Field List (mapping) line 14  
Details

FIELD	VALUE
Source Field	Post Code
Destination Field	MailingPostalCode

03-09-2018 13:14	Beate Thomsen	Transfers	Beate Thomsen edited Transfer CONTACT01_SF_ADD disabled Field List (mapping) line 7
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Date 03-09-2018 13:14  
User Beate Thomsen  
Area Transfers  
Action By Beate Thomsen  
Service MY\_COMPANY\_SF\_NAV\_STD  
Description Beate Thomsen edited Transfer CONTACT01\_SF\_ADD disabled Field List (mapping) line 7  
Details













FIELD	VALUE
Source Field	Country/Region Code
Destination Field	MailingCountryCode

# SERVICE ACCESS MANAGEMENT (1)

## New “fine-grained” management of access to Service Configuration

- default access is “No Access” (if no service access record is created for user)
- if a Service Access record exists, then default access is READ access.

## Overview of the different Access Areas:

	Start Schedules	Allowed to select and start Schedules (but not edit, delete or create Schedules). If the user also has the 'Edit Schedules' right then all selected Schedules will be set to run now. Otherwise only Schedules that are currently running (not 'Stopped') will be set to run now.
	Edit Transfers	Allowed to edit, create and delete Transfers
	Run Transfer	Allowed to run Transfers manually
	Activate Changes	Allowed to Activate Changes
	Edit Schedules	Allowed to edit, create and delete Schedules
	Edit Groups	Allowed to edit, create and delete Groups
	Edit Connections	Allowed to edit, create and delete Connections
	Edit Tags	Allowed to edit, create and delete Tags
	Edit RTI	Allowed to edit, create and delete RTI entries
	Edit Link Storage	Allowed to edit, create and delete Link Storage
	Edit Link Storage Values	Allowed to edit, create and delete Link Storage Values
	Edit Comments	Allowed to edit, create and delete Comments

# SERVICE ACCESS MANAGEMENT (2)

## Giving access to External partners/consultants or Rapidi Support personnel

- use search to find consultant, then add access
- RAPIDI Support can also add access records

Service Access for services related to My Company

SERVICE	USER														ACTIONS		
MB_TEST_SF_NAV_STD	Jens Consultant [Partner Inc.]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
MB_TEST_SF_NAV_STD	Beate Thomsen	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
MB_TEST_SF_NAV_STD	Katrine Hilleson	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			

MB\_TEST\_SF\_NAV\_STD

Jens Consultant [Partner In...

Service Access for services related to My Company

SERVICE	USER														ACTIONS	
MB_TEST_SF_NAV_STD	Jens Consultant [Partner Inc.]	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
MB_TEST_SF_NAV_STD	Beate Thomsen	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
MB_TEST_SF_NAV_STD	Katrine Hilleson	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
MB_TEST_SF_NAV_STD	Co-worker Hansen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

MB\_TEST\_SF\_NAV\_STD

All Users

**Transparency: As Account Admin, you can always see who has access !**

Read more: <https://www.rapidionline.com/product-updates/new-rapidi-service-access-management>

# SECURITY: TWO-FACTOR AUTHENTICATION

## **TWO-Factor Authentication - 2FA - two step verification**

### **Why we need it:**

Extra layer of protection if credentials are leaked

### **How it works:**

Requires that you have one extra thing to login (Mobile / App)

Mobile / App Generates six digit (time and user based) number that must be entered during login

### **Enabled by each user:**

Download App (Google Authenticator, Authy, 1Password)

Enable in MyRapid and scan QR Code on screen

### **Can be enforced for all users by Account Admin**

Read more: <https://www.rapidionline.com/product-updates/how-to-enable-two-factor-authentication-2fa-on-myrapidi>

# MICROSOFT DYNAMICS 365 ODATA CONNECTIONS

## What is ODATA?

- OData (Open Data Protocol) is an OASIS Standard defining best practices for REST API's
- Supported by all major players (Microsoft, Salesforce and many others)
- Gives a good basis for an API - BUT not all features must be implemented and some freedom with e.g. filters !

## Why use OData?

- It is a standard
- Less complex than f.x. SOAP WebServices
- Microsoft support OData for NAV, AX, CRM (newer versions, says it will continue to support OData for all systems).
- Both read and write - and business logic is running behind the scenes !

## Microsoft OData support:

- Dynamics 365 Business Central
  - Dynamics NAV 2017
  - Dynamics NAV 2016
  - Dynamics 365 Finance & Operations (AX)
  - Dynamics 365 CRM
- 
- Authentication supported: username/password (NAV development, local deployments), OAuth2 Azure Active Directory (All production environments)
  - Tracking Changes —> use Mirror Technology (from Rapidi)
  - Links (Cross References between systems) —> use LinkStorage (from Rapidi)

Read more: [https://www.rapidionline.com/product-updates/odata\\_connections](https://www.rapidionline.com/product-updates/odata_connections)

# SALESFORCE CONNECTOR

## Enhancements to our Salesforce Connector

- **Support for sending up to 200 records per API request** even if we need to get new Salesforce ID back into Source system (StoreNewID) or LinkStorage
  - massive performance gain when creating records in Salesforce (for example during initial upload of data)
  - vastly reduced number of API calls used on Salesforce side
  - Also works when only doing Update or Add (not only for UPSERT)
- **Support for use of SourceControl based on SystemModstamp** (instead of DBSourceControl)
  - faster than using DBSourceControl (GetModified)
  - can use normal filters (instead of CalcFilters)
- Support for use of Sorting, support for tns:address, tns:location and time field types, better error handling and retries when session errors for example.
- Switching to use OAuth2 authentication using Connected App in SFDC (from version 4.1.01c)

# MIRROR ENHANCEMENTS

## What is the Mirror Technology anyway ?

- Feature that automatically creates and keeps a copy (in a designated database) of data read from a system (for specific tables/transfers)
- The copy is automatically kept up-to-date each time you read from that system
- The mirror compares data you read with the stored copy and automatically delivers only the changed records

## Mirror Enhancements:

- Mirror can now use MySQL database (before only MS-SQL)
- Mirror can now be hosted by Rapidi Centrally (for use with e.g. Dynamics 365)
- default Mirror Update Interval is now 10 seconds
- mirror is now automatically doing cleanup (removing duplicate changes) when less than 10 records changed.
- For centrally hosted mirror, we can store result of DBLookup's and LSLookup's in mirror (keeping track of changes to these values also)

# LINKSTORAGE IMPROVEMENTS

## What is LinkStorage anyway ?

- an easy and automatic way to store the relation between a unique primary key in two different system (for example the between Salesforce's Account Id and D365 BC (NAV) Customer No)
- The link data is stored in the Rapidi configuration database and can be viewed/managed through the MyRapidi interface (or REST API).
- The LinkStorage is automatically kept up-to-date - just specify the LinkStorage on the Transfer.
- The data can be used for Lookup (LSLookup formula) and also to determine if a record exists in the other system (thus avoiding "expensive" Lookups in the destination system)

## New features/enhancements in LinkStorage:

- LinkStorage is used by almost all new installations that we do (with D365 BC or GP) and a lot of smaller optimisations and error fixes has been done.
- We now fully support using the LinkStorage instead of specifying a Table Link on the Transfer - in this way you don't need to store e.g. Customer No in Salesforce. This enables faster and simpler implementations (no need to add fields in either source or destination system)

# REST-BASED API TO MYRAPIDI

## MyRapid REST API features:

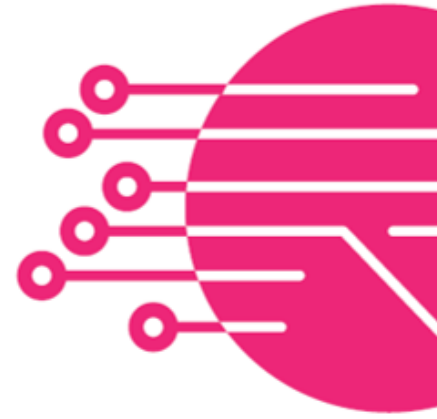
- set a Schedule to run now (start/stop)
- check on Schedule status
- create/update/read/delete Schedules
- get (error) log entries (coming soon)
- create/update/read/delete RTI values
- create/update/read/delete Link Storage Values
- create/update/read/delete/test/read design Connections
- read messages coming back from test/read design on Connections
- supports JSON Schema
- access/login with normal MyRapid user
- we aim to support all what you can do in the MyRapid user interface and more...
- documentation: [wiki.myrapid.com/RestAPI](https://wiki.myrapid.com/RestAPI)
- tutorial/introduction blog post: <https://www.rapidonline.com/product-updates/introducing-the-myrapid-rest-api>

# OTHER CHANGES

- License Expire check is now done online (with MyRapid)
  - initially and when service expired.
  - this allows for more smooth handling of service renewals
- BlankValue formula can now be used with Error formula.

For example:

```
BLANKVALUE(LSLookup('CUST_UK','No'),ERROR('Account Id not found in link storage for  
Customer: %1','No'))
```



**QUESTIONS?**



[info@rapidionline.com](mailto:info@rapidionline.com)  
[www.rapidionline.com](http://www.rapidionline.com)  
[wiki.MyRapidi.com](http://wiki.MyRapidi.com)

# **MORE** *Information & Support?*

## **Product Updates:**

<https://www.rapidionline.com/product-updates>

## **Documentation:**

<http://wiki.myrapidi.com>

## **Knowledge Base:**

<https://www.rapidionline.com/support/knowledge-base>

## **Submit a Case:**

<https://www.rapidionline.com/support/submit-a-case>

**Our Support Team is ready to help!**



**ADA TEE**  
Head of implementation



**FETI JASHARI**  
Head of Support



**THOMAS BORRINGTON**  
Senior consultant



**BUJAR ISMAILI**  
Consultant



**SHAWN ABADIE**  
Head of customer success



**THANK YOU!**

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