







Automations and External Integrations (K12-507)

 [K12-2964] Enabler and RDS Integration Created: 07/Jul/25 Updated: 17/Oct/25

Status:	Ready for BA		
Project:	MyPortal K12		
Components:	None		
Affects versions:	None		
Fix versions:	PI 2, PI 3		
Security Level:	Open to All		
Parent:	Automations and External Integrations		

Type:	Epic	Priority:	Medium
Reporter:	Jacqui Kehoe	Assignee:	Rob Hines
Resolution:	Unresolved	Votes:	0
Labels:	PI2, PI3		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Attachments:	 FieldsUsedInRDSValidation.xlsx  RDS_ValidationSpecs.zip  image-20250917-184241.png  K12_Residecny_Specs.docx  k12_Mule_Dataflow.pdf  image-20251015-133615.png		
Issue links:	<div><div>Action item</div><div>has action item</div><div>K12-410</div><div>MyPortal K12 Validation Strategy</div><div>In Progress</div></div> <div><div>Cloners</div><div>is cloned by</div><div>K12-3844</div><div>RDS Integration</div><div>Open</div></div> <div><div>Feature</div><div>Is the Feature for...</div><div>K12-3982</div><div>Meet with CFI leadership to determine...</div><div>In Progress</div></div>		
Epic Name:	RDS Implementation		
Status Update:	This is a feature		
Team:			
Sprint:			
Health:	Green		

Description

<p>Integrate with RDS (CFI owned). This will allow for validation of household address data. Need lots more info on this one.</p> <p>There are 2 attachments. the zip file has about 10 different documents that provide a lot of information. I'm working with Rob to determine how we intend to use this at the K12 level.</p> <p>Notes to use to define this work more:</p> <p>This will be used to verify Residency for parents. It'll likely look like an overnight batch job. At the end of the day, we'll send a list of all of the new applicants for the day with whatever specific data. RDS runs the batch and does it's thing. It will then send back the verifications. We'll then do something with that data and mark them as verified. This should remove the need for a residency verification task, unless for some reason we aren't able to verify someone by using RDS....then I think we'll need to still have a manual task for the parent.. To upload a water bill or something like that.</p>
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Comments

<p>Comment by Jacqui Kehoe [17/Jul/25]</p> <p>needs to be refined for full understanding of the needs and capabilities.</p>
<p>Comment by Bill Ewald [22/Jul/25]</p> <p>Lift and shift of RDS to cloud containers OR not use CFI on-prem (Robert) . Rename to Enabler Epic RDS Integration from RDS Integration. Need address validation = feat epic revision, placement is up for question, as is just focusing on address validation (talk with jill.sorg Brandon Berry Jacqui Kehoe . "Design and architecture for RDS integri services that will support K12 (2 or 3) - Brandon Berry.</p>
<p>Comment by Brandon Berry [20/Aug/25]</p> <p>There is a lot of uncertainty around the exact needs for integration with RDS, how this will work with the K12 cloud architecture. I'm placing this epic at risk in PI2</p>
<p>Comment by Bill Ewald [20/Aug/25]</p> <p>Brandon Berry - Brandon https://cfi-nc.atlassian.net/browse/K12-2964 Health is set to Red. The epic is at risk in PI2, what is the impact if we do not complete the stories and Who should the epic be assigned to?</p>

Are we able to determine who the two stories should be assigned to?

Thank you - Bill, [jill.sorg](#) , [Victor Anton](#)

Comment by [Bill Ewald](#) [26/Aug/25]

Rob is having a meeting later today on RDS.

Comment by [Bill Ewald](#) [16/Sep/25]

Robert says that we are waiting on CFI to return with answers. CFI is developing, when will CFI be done? We need the date....

Comment by [Phillip Cartwright](#) [16/Sep/25]

[Bill Ewald](#), who is the CFI contact we've been working with on this?

Comment by [Phillip Cartwright](#) [17/Sep/25]

[Bill Ewald](#)

CFI needs confirmation of questions being answered?

What items are we validating against?

Comment by [Bill Ewald](#) [17/Sep/25]

[Phillip Cartwright](#) Rob Hines and Marty Flourmory.

Comment by [Bill Ewald](#) [17/Sep/25]

[Phillip Cartwright](#) [Robert Beasy](#) - do you have specifics for Phillip Cartwright, on what answers we are waiting on CFI to produce?

**Phillip Cartwright**

4 minutes ago

[@Bill Ewald](#)

CFI needs confirmation of questions being answered?

What items are we validating against?



Replying to Phillip Cartwright

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Write

[@Phillip Cartwright](#) [@Robert Beasy](#) - do you have specifics for Phillip Cartwright, on what answers we are waiting on CFI to produce?

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**Bill Ewald**

yesterday (edited)

Robert says that we are waiting on CFI to return with answers. CFI is developing, when will CFI be done? We need the date....

**Phillip Cartwright**

yesterday

[@Bill Ewald](#), who is the CFI contact we've been working with on this?

**Bill Ewald**

2 minutes ago

[@Phillip Cartwright](#) Rob Hines and Marty Flournoy.

**Bill Ewald**

August 26, 2025 at 11:44 AM

Rob is having a meeting later today on RDS.

**Bill Ewald**

August 20, 2025 at 12:08 PM

[@Brandon Berry](#) - Brandon [K12-2964: Enabler and RDS Integration](#) **OPEN** Health is set to Red. The epic is at risk in P12, what is the impact if we do n stories and epic?

Who should the epic be assigned to?

Comment by [Robert Beasy](#) [18/Sep/25]

[Bill Ewald](#) [Phillip Cartwright](#) Our team is inquiring about an estimated date when the K12 project will be able to begin integration with the service bus based solution we disc meeting last week. When they complete their work we will of course need information to integrate with their Azure Queues to define the endpoints, credentials, updated info supported payload formats, etc.

Comment by [Sumith Mathur](#) [22/Sep/25][Jacqui Kehoe](#) [Phillip Cartwright](#) [Bill Ewald](#)

We are waiting on K12 business to decide on the requirements which was a take away from the last weeks meeting.

I had share a draft document at the end of the meeting which need to be reviewed by K12 team. I am attaching the document to this story for reference.

1. Which agencies will be used
2. Review the Request Payload - (current draft is based on DOR and DOT)
3. Review the Response Payload ((current draft is based on DOR and DOT)
4. Who is responsible for the residency determination (source of truth)

5. What are the role up rules
6. Error handling

There are place holders in the document to fill out all this information

Another thing I want o clarify is RDS will pick up message from K12 Azure message queue and puts in back in K12 Azure queue. K12 need to provide

1. Queue name (attached document has some proposed name, but its up to K12 tech to finalize the names)
2. Connection information (credentials etc.) for each environment

There are some additional processes that are put in the flow as a starting point for discussion that need to be defined based on K12 processing requirements, like status flo requirements[K12_Residecny_Specs.docx](#)

Comment by [Phillip G von Gretener](#) [23/Sep/25]

[Sumith Mathur](#) The process as I understood it was as follows. Please confirm if that is also what you are thinking

1. K12 posts a query to the RDS queue (external to K12)
2. RDS picks it up and processes a response
3. RDS pushes the response to K12

Comment by [Sumith Mathur](#) [23/Sep/25]

[Phillip G von Gretener](#)

Its a valet service, as I stated above

RDS will pick up message from K12 Azure message queue and puts in back in K12 Azure queue

Comment by [Phillip G von Gretener](#) [23/Sep/25]

[Sumith Mathur](#) to confirm: when you say “K12 Azure Message Queue”, you mean a queue external to K12, that CFI creates and manages, right? Not something actually in environment. You are just naming it the “K12 queue” since that’s its purpose?

Comment by [Sumith Mathur](#) [24/Sep/25]

[Phillip G von Gretener](#) No, its within K12 Azure environment. Everything is configured and controlled by K12. RDS will be a client coming in to pick up and drop off message Azure. That’s why I said final decision on queue names will be decided by K12 team and credentials for connection will be provided to RDS to connect to K12 message que

Comment by [Sumith Mathur](#) [24/Sep/25]

[Jacqui Kehoe](#)Not sure why this is assign to me, but someone from K12 need to be the owner of this story since all the requirements are done by K12 team. I can help with a portion

Comment by [Phillip G von Gretener](#) [24/Sep/25]

[Rob Hines](#) as discussed PSB.

Comment by [Sumith Mathur](#) [09/Oct/25]

I created high level data flow diagram as a starting point for discussion. This is my take on how it might work, but we can modify based on the K12 requirements.

[k12_Mule_Dataflow.pdf](#)

Comment by [Sumith Mathur](#) [15/Oct/25]

Available compatible modules				
Name	Publisher	Asset type	Latest version	
Azure Data Lake Storage Connector - Mule 4	MuleSoft	REST API	1.0.7	
Azure Cosmos DB Connector - Mule 4	MuleSoft	REST API	1.0.5	
Microsoft Azure Storage Connector - Mule 4	MuleSoft	REST API	3.0.0	
Azure Event Hubs Connector - Mule 4	MuleSoft	REST API	1.2.0	
Azure Service Bus Connector - Mule 4	MuleSoft	REST API	3.4.3	
Azure Service Bus Management Connector - Mule 4	MuleSoft	REST API	1.0.3	
Azure Key Vault Connector - Mule 4	MuleSoft	REST API	1.2.0	
Azure Key Vault Properties Provider	MuleSoft	REST API	2.1.2	
Salesforce Data Cloud Connector - Mule 4	MuleSoft	REST API	1.3.1	
Microsoft Windows Service Bus Connector - Mule 4	MuleSoft	REST API	2.2.7	
Files.com Connector - Mule 4	MuleSoft	REST API	1.0.0	

Mule available Azure connectors

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