



Education & Skills
Funding Agency

LRB Web Services Interface Application

June 2022

Audience: MI suppliers and IT developers



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Thank you for your application. By registering to develop a set of products offered by the LRS service including any content and material made available by Us, you will be entering into a contract with LRS.

The next sections include terms of the application if successful, registration details and questions to help us understand the way you are developing the solution.

Please read the application carefully. It covers important information, in consideration of You complying with Your obligations for the development and use of LRS web service operations (WS's), the Education and Skills Funding Agency grants You a limited non-exclusive, non-transferable revocable licence to develop a system to system connection to the Learning Record Service (the "LRS") services.

Section	Subject
1.	General Terms & Conditions
2.	Organisation details
3.	Web Service Information
4.	Single ULN transactions a. Find by ULN b. Find by Demographics c. Register Single Learner d. Update Learner
5.	Submit batch learner registration
6.	Get learner learning events (PLR)
7.	Verify: 1. Verify Learner Details 2. Submit Verify Learner Details Batch 3. Get Verify Learner Details Batch Output



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Action

1. Complete ALL sections marked with an * in Sections 1, 2, 3.
2. Complete section 3, 4 or 5 depending on what you plan to develop.
3. Return the completed interface application form by email to
lrs.support@education.gov.uk

Note: In developing a direct connection to the LRS, You MUST agree to the terms of this application. If You do not agree to the terms/conditions, then Your application to proceed will be rejected.

Service Levels

We aim to complete verification and processing of your application within 10 working days. Should we have any queries related to your request, your organisation will be contacted by DfE.

Developer Pack

Once your application is approved, a Developer Pack will be mailed to you. This has additional information you require to help develop the solution, including a Compatibility Check Request and Evidence form and test scripts.

Our Responsibilities

1. The Education and Skills Funding Agency makes every effort to keep all information required accurate and up-to-date.
2. We will register your organisation and keep it on record to communicate, in the event of:
 - a. Web service changes – technical, decommissioning, new products lines
 - b. Major outages
 - c. Feedback to help improve the service



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Pre-requisite

Before you complete and return this form, please ensure the following pre-requisite is complete. Please tick the box to confirm.

Pre-requisite	Tick
1. You or somebody in your organisation has read the "Get started guide (developing LRS web services) v1".	<input type="checkbox"/>

Note: If the pre-requisite is not met, your application will be rejected.

Section 1 – General Terms & Conditions

Please tick the boxes to confirm agree to the terms set out below:

	Developer Responsibilities	Tick
1.	You are responsible for protecting the confidentiality of all the information you use to develop an interface to our portals and for complying with all guidelines issued by Us to prevent unauthorised access.	<input type="checkbox"/>
2.	You agree to immediately notify the LRS, should You become aware of any unauthorised use of Your WS's, loss or theft of any information which may allow another to gain unauthorised access to the LRS. All information issued by Us is subject to copyright and will not be reproduced.	<input type="checkbox"/>
3.	You are only entitled to develop an interface provided to our portals in accordance with the terms of this registration and will not use the information for any malicious, illegal, or anti-social activity.	<input type="checkbox"/>
4.	You understand non-compliance with the terms of this application will lead to removal of your access rights to development tools and permission to go-live with your solution.	<input type="checkbox"/>

	Access	Tick
1.	The solution will NOT allow unauthorised persons to access learner information from LRS. Only permitted organisations registered with LRS are given access.	<input type="checkbox"/>
2.	The solution will NOT be open to all or any internet user. For example, the development of a website allowing anyone to get anyone's ULN based on Find by demographic web service function is NOT permitted.	<input type="checkbox"/>
3.	The solution will, for each web service transaction, identify and track the client organisation triggering the request.	<input type="checkbox"/>
4.	The solution will track and record individual users, triggering the request including the organisation they belong to.	<input type="checkbox"/>



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	Solution	Tick
1.	Any learner information passed on from LRS will be protected and will not be misused or compromised.	<input type="checkbox"/>
2.	The solution will not allow for students/learners to input or submit their own details to the LRS without verification and approval from the organisation.	<input type="checkbox"/>
3.	The solution will not take information held by LRS to update the clients MIS system. LRS records will be updated and maintained using the latest details verified by your clients.	<input type="checkbox"/>
4.	Business, technical and validation rules will be met as defined in the technical specification.	<input type="checkbox"/>

	Technical Please accept the following conditions to confirm the solution will meet the requirements as set out in the Technical Spec:	Tick
1.	The transport protocol used for interactions with the web services will be HTTPS.	<input type="checkbox"/>
2.	Transport Layer Security – LRS will only support TLS 1.2 and later versions.	<input type="checkbox"/>
3.	All files submitted to the system must be created using UTF-8 file encoding.	<input type="checkbox"/>
4.	The solution will perform validation checks before a call is made to the LRS i.e. date formats, naming conventions etc.	<input type="checkbox"/>
5.	The solution will not return LRS error codes to mask internal errors e.g. it will not return WSEC0999 for a network communication error.	<input type="checkbox"/>

	Support Framework	Tick
1.	Your organisation will be responsible for providing the first and second line support for any solution issues or queries for the solution interface with the LRS before contacting the LRS Service Desk.	<input type="checkbox"/>
2.	Your organisation will inform customers/users of the support model, process, and scope in terms of queries, including the initial set-up.	<input type="checkbox"/>
3.	Your organisation will provide step by step guidance and advise on how to use the new solution including what information needs to be entered.	<input type="checkbox"/>
4.	Your organisation will share support material provided by LRS.	<input type="checkbox"/>



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Section 2 – Developer/Organisation Details

Please provide details for your organisation and whom to contact with any queries regarding this application and/or development:

UKPRN (if applicable) Please supply a UK Provider Number if you have one:	
Legal Organisation Name: * Full organisation name	
Trading or organisation other name (if applicable)	

Application Requester Details	
Contact Name: *	
Position: *	
Contact Telephone No.: * A number which can be used to contact your organisation/you.	
Contact Mobile No (if available) A number which can be used to contact you.	
Contact E-mail Address: *	

Lead Developer Contact Details	
Please tick the box if same as Application Requester:	<input type="checkbox"/>
Contact Name:	
Contact Position:	
Contact Telephone No.: A number to contact the developer.	
Contact Mobile No (if available) A number to contact the developer.	
Contact E-mail Address:	



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Organisation Type	
What type of organisation are you?	Tick
In-house developer (internal)	<input type="checkbox"/>
3 rd party developer (external)	<input type="checkbox"/>

Organisation type – please tick the option which best describes the main function of your organisation. If other, please enter your own description.

Section 3 – Web Service Information

Please answer the following questions about your solution:

Q1. Target organisations that will use the web services	Tick
Learner Registration Body (e.g. schools, academies, colleges, FE Provider, Local Authority, Higher Education)	<input type="checkbox"/> Go to Q2
Awarding Organisation	<input type="checkbox"/> Complete the AO WS Interface Application (WSP02)
Other	<input type="checkbox"/>
If other, please specify type of organisation	

Q2. Web Service Product					
ID	Product (WS) Name Please tick which web operation(s) you are developing:	Transaction type	User Type	Tick Box	Notes
1	Find Learner by ULN	Single	LRB	<input type="checkbox"/>	All four functions must be developed in a bundle.
2	Find Learner by Demographics				
3	Register Single Learner				
4	Update Learner				
5	Submit batch learner registration	Batch	LRB	<input type="checkbox"/>	Max of 200 records per submission



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6	Get batch learner registration	Batch	LRB	<input type="checkbox"/>	
1137	Get Learner Learning Events (PLR)	Single	LRB	<input type="checkbox"/>	
10	Verify Learner Details	Single	LRB	<input type="checkbox"/>	
11	Submit Verify Learner Details Batch	Batch	LRB	<input type="checkbox"/>	
12	Get Verify Learner Details Batch Output	Batch	LRB	<input type="checkbox"/>	

Q3. Please provide more information explaining your reasons for developing these chosen products:

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Q4. When do you plan to make the solution available to users?

Date	
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Q5. How many organisations are you expecting to use your solutions interface with the Learning Records Service?

Number	In the next 12 months	Long Term

Q6. Is your solution designed to cater for only a single or for multiple organisations using your application within each deployed version of your solution? Please tick one box only.

If you are planning on an internet-based solution which is accessible by many organisations or are an Agent acting for more than one learning provider and have to enter data for different organisations, then answer as multiple.

Single	Multiple
<input type="checkbox"/>	<input type="checkbox"/>
Please go to Q7 - Conditions	Please go to Q7



Q7. If your solution supports multiple organisations, which deployment method will your organisation adopt?

Internet Based Model	<input type="checkbox"/>
Client Site Model	<input type="checkbox"/>
Agent Model	<input type="checkbox"/>
Other	<input type="checkbox"/>

If other, please provide more information:

	Conditions	Tick
1.	Solution supports only a single organisation per installation: <ul style="list-style-type: none">The solution is configurable to set up a different digital certificate per organisation/installationFor each deployment, clients can change the solution to have the correct UKPRN and password for their organisation.	<input type="checkbox"/>
2.	Solution supports multiple organisations in a single installation: <ul style="list-style-type: none">Each web service call made will identify the correct organisation it was sent fromEach installation will be configured to individual organisation web service connections.	<input type="checkbox"/>

Q8. Your solution will need to deal with Response and Error codes returned by the Learning Records Service. How will these be displayed in your solution for user intervention?



Section 4

If you are implementing the Find, Register and Update web services, please answer the following questions in all sub sections.

Section 4a Find by ULN

	Find by ULN Conditions	Tick
1.	When attempting to view a learner record and a ULN is available the solution must always perform a 'Find by ULN'.	<input type="checkbox"/>
2.	A 'Find by Demographic' search is performed after a failed 'Find Learner by ULN' search.	<input type="checkbox"/>
3.	<p>"Master ULN is when one or more ULN record(s) have been linked together. LRS always returns back to users the Master ULN record".</p> <p>When the return code indicates a Master ULN is returned, the solution will prompt the user to check the details returned from LRS and take the most appropriate action:</p> <ol style="list-style-type: none"> 1. If the Master ULN details returned do not match what was submitted by the client: <ol style="list-style-type: none"> a. Minor differences; update whichever record is incorrect and ensure your MIS system is updated with the Master ULN. b. Significant differences (where client believes the ULN belongs to a different learner); client to raise a Data Challenge via the LRS Organisation Portal for the LRS support team to investigate. 2. Where the learner details returned by LRS match the MIS record, update your MIS system with the Master ULN. 	<input type="checkbox"/>
4.	<p>ULN check expression is the algorithm used to generate the 10th digit identifier. This will check the ULN format entered is valid.</p> <p>The ULN will be validated.</p>	<input type="checkbox"/>

Q1. A master ULN is when one or more ULN record has been linked together. Users will always be given back the Master ULN record, response code WSRC0022 (Linked Learner Found). Demographic details on the Master ULN record may be different from what the user originally searched. How will your solution handle linked ULNs?



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Section 4b Find by Demographics

	Find by Demographics Conditions	Tick
1.	The solution will perform a 'Find by demographic' search before performing an update (where ULN is not available) or register to the Learning Records Service	<input type="checkbox"/>
2.	The solution will only perform a 'Find by Demographic' search if the ULN is not supplied or a 'Find by ULN' search has failed.	<input type="checkbox"/>
3.	The solution will not automatically perform 'Register Learner' if a learner is not found.	<input type="checkbox"/>
4.	When the 'Ability to share' flag is set to 'FPN seen and able to share' the flag cannot be reset to 'FPN not seen'.	<input type="checkbox"/>
5.	When a ULN is returned by LRS, the solution will check that another student within MIS system has not already been allocated the same ULN.	<input type="checkbox"/>

Q1. When the Demographic Search returns WSRC0003 (Possible Matches) does your solution: (tick only one)

Register a new single learner	<input type="checkbox"/>
Review the learner details returned to validate if a ULN already exists for their learner before registering for a new ULN	<input type="checkbox"/>
Something else	<input type="checkbox"/>
If something else, please specify	

Q2. When the Demographic search returns WSRC0002 (Too Many Matches) does your solution: (tick only one)

Register a new single learner	<input type="checkbox"/>
Prompt the user to refine the search and if unsuccessful contact the LRS Service Desk	<input type="checkbox"/>
Something else	<input type="checkbox"/>
If something else, please specify	



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Section 4c Register Single Learner

Register Single Learner Conditions		Tick
1.	The solution will perform a 'Find by ULN' and/or 'Find by demographic' search before performing 'Register single learner'.	<input type="checkbox"/>
2.	The solution will not default to using a generic Verification Type value (proof of identity).	<input type="checkbox"/>
3.	The solution will not use a default 'Ability to Share' value.	<input type="checkbox"/>
4.	The solution will not default to using a generic postcode.	<input type="checkbox"/>
5.	Multiple name values in the first name or given name field must be separated into first and other name fields. Only double-barrelled names will be placed in the given name or family name fields.	<input type="checkbox"/>

Section 4d Update Learner

Update Learner Conditions		Tick
1.	The solution will perform a 'Find by ULN' or/and 'Find by demographic' search before performing an 'Update learner'.	<input type="checkbox"/>
2.	The solution will not default to using a generic Verification Type value (proof of identity).	<input type="checkbox"/>
3.	The solution will always prompt users to update the 'Verification Type' field with every update sent.	<input type="checkbox"/>
4.	The solution will include a check, confirming that any update is verified before sending to LRS.	<input type="checkbox"/>
5.	The solution will not use a default 'Ability to share' value.	<input type="checkbox"/>
6.	The solution will not default to using a generic postcode.	<input type="checkbox"/>
7.	The solution will not accept the postcode details being updated without the full address at the same time.	<input type="checkbox"/>
8.	Multiple name values in the first name or given name field will be separated into first and other name fields. Only double-barrelled names will be placed in the given name and family name fields.	<input type="checkbox"/>
9.	The solution will validate the date of birth field is formatted correctly before sending the updates to LRS.	<input type="checkbox"/>



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Section 5 Submit and Get Batch

If you are implementing the Submit Batch Learner Registration and Get Back Learner Registration Output web services, please answer the following questions.

Submit & Get Batch Conditions		Tick
1.	The solution allows users to include the ULN (if known) in the batch submission.	<input type="checkbox"/>
2.	The solution will not default to using a generic Verification Type value (proof of identity).	<input type="checkbox"/>
3.	The solution will not use a default 'Ability to share' value.	<input type="checkbox"/>
4.	The solution will not default to using a generic postcode.	<input type="checkbox"/>
5.	Multiple name values in the first name or given name field will be separated into first and other name fields. Only double-barrelled names will be recorded in the given name or family name fields.	<input type="checkbox"/>
6.	Users will be prompted to resolve any exceptions directly on the LRS Organisation Portal for response codes RC0007 to RC0011.	<input type="checkbox"/>
7.	A batch submission will not exceed 1000 ULN records.	<input type="checkbox"/>

Q1. Is your batch submitted for obtaining ULNs only?

Yes

☐

No

☐

Q2. Which mode will the solution submit a batch in (tick only one)?

Any of the answers are valid. This just helps you to understand how it is being used. Normally full mode but verify only mode can be used to check if ULNs can be found without actually obtaining any details.

Full Mode

☐

Verify only mode

☐

Both modes

☐



Q3. For the ULN Register Records in your batch which have failed to obtain a ULN, what will the solution do: (tick all that apply)

Create a student record in your solution without a ULN	<input type="checkbox"/>
Resubmit the student details in another batch	<input type="checkbox"/>
Register using the Learning Records Service online portal	<input type="checkbox"/>
Another action	<input type="checkbox"/>
If another action, please specify	

Section 6 Get Learner Learning Events

If you are implementing the Get Learner Learning Events web service, please answer the following questions.

Get Learner Learning Events Conditions		Tick
1.	Learners will not be given access to this solution. A copy can be provided from your organisation or one can be requested from https://www.gov.uk/government/publications/learning-records-service-the-plr-for-learners-and-parents	<input type="checkbox"/>
2.	The solution will not store PLR data within the clients MI solution on the basis it is considered out of date as soon as it leaves LRS. Clients will be prompted to call the LRS each time PLR data needs to be viewed.	<input type="checkbox"/>

Q1. Who will have access to view the PLR and for what purposes?

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Section 7 Verify

If you are implementing any of the 'Verify' web services, please answer the following questions.

Conditions		Tick
1.	<p>When LRS returns WSVRC003 (Possible Match).</p> <p>ULN was found but the associated Given and/or Family Name are similar but not a successful match.</p> <p>"The solution will prompt the user to login to the LRS organisation portal to verify the ULN returned by LRS belongs to their learner. Once logged in, the user is expected to check ALL learner information on the LRS against their own MI system to validate they have the correct ULN record".</p>	<input type="checkbox"/>
2.	<p>When LRS returns WSVRC004 (Possible Linked Match).</p> <p>A match was found on the same basis as described for 'Similar Match', but the ULN Register Record identified is that of a Linked Learner (in other words, it has been merged with one or more ULN records). The details returned will be those of the Master Learner.</p> <p>The solution will prompt the user to login to the LRS organisation portal to verify the ULN returned by LRS belongs to their learner. Once logged in, the user is expected to check the Master ULN Record belongs to their learner otherwise a ULN Data Challenge will need to be raised for the LRS to investigate.</p> <p>Users can only raise a ULN Data Challenge from the LRS organisation portal.</p>	<input type="checkbox"/>
3.	<p>Condition only valid for 'Batch' purposes.</p> <p>A batch submission will not exceed 5000 ULN records.</p>	<input type="checkbox"/>

By signing below, You are certifying that You accept the conditions above and You have been honest with your answers. *

Signature:

Name (please print):

Position within organisation:

Date:



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LRS Verification of Request (Official Use Only)

Checked by:	
Checked date:	
Position:	
Result:	
Notes	