Client authentication and data routing

Version 1.0

Version History

Version	Date	Comment
1.0	01.01.2021	Initial Verison

Organisation client software authentication to iDDEN

To authenticate to the iDDEN Hub service, the client application needs to provide the identification of its organisation and a valid API key. This information needs to be provided in all requests to the iDDEN Hub service, since the authentication verification process is triggered during each data exchange request.

The authentication information needs to be provided inside the HTTP request custom (non-standard) headers.

Header name	Purpose
iDDEN-ID	Official iDDEN identification of client organisation software (see iDDEN Registration documentation)
iDDEN-API-KEY	Authentication API key registered for client organisation software. The API key is provided when the organisation is registered

Data exchange routing between the client and the data integrator

For data routing between the caller party and the data integrator target organisation, an identification needs to be provided in the http request header as well.

Header name	Purpose
iDDEN-ID-TARGET	iDDEN identifier of the target data provider organisation for data exchange routing

General data exchange flow

Step	Action
1	Client application invokes the right web service method for executing the action it needs to make.
2	Client application performs an authentication logon to the data provider authentication service. The returned security token will be used to authorize communication with iDDEN and the data provider systems.
3	iDDEN hub service checks that the client has the right to use the web service and if so, checks the data integrity: • If the message is well-formed and authentication is okay, proceed. • Otherwise an error message, in the user's language, with an explanation is sent as a response. This makes the use case come to an end.
4	iDDEN checks the data provider that is used for the data exchange target and selects the adapter to process the request to the data provider interface. Additional adapters might be used if conversions are needed for different versions of the ICAR ADE standard messages.
5	Data provider service receives the request from iDDEN. Data provider system will authenticate the request and processes the request: • If authentication or authorization fails, an error explanation in the user's language is sent as a response • If the data provided by the client is incorrect or incomplete in any way, an error explanation in the user's language is sent as a response

	• If the data provided by the client is correct and authentication / authorization exists, a response to the request is formed in the data provider system
6	iDDEN receives the response from the data provider system.
7	iDDEN sends the response to the client
8	Client application processes the response according its own inner logic.