

Ericsson and APIs

Ericsson Service Innovation Framework

Ericsson Service Innovation Framework is Ericsson's architecture to deliver an ecosystem for exposing both operator and partner product offers combined with operator service management capabilities. ESIF has been designed to deliver catalog driven, componentized product and service innovation across domains and process flows of the communication service providers. Operators can utilize ESIF to create new business through business partners and to drive new revenues by enabling innovative application development of both operator's and partner's capabilities. The key features of the solution include the ability to facilitate composition and creation of the network-based service logic, the inclusion of service management for fulfillment, charging and policies and exposure of all functions as APIs. The ESIF solution provides a storefront for easy purchase of APIs for new application development and the self-care access to monitor usage. The framework enables the ecosystem approach to the creation and storefront sales of web service APIs. The back-end operations are enhanced with a methodology to enable component based catalog driven operations for all service types. This methodology improves the ability to model, productize and implement a digital service.

The list of available APIs are by category

Digital APIs

- SMS
- Fulfillment
- Location
- AccountInfo
- Payment
- Policy
- Catalog Mangement - * tmforum API
- Identity
- Order Management - * tmforum API
- Connected Car
- Privacy API - *tmforum API
- Customer API - *tmforum API
- Party API - *tmforum API

Stadium APIs

- Video Streams - get live streaming TV
- Vendor Menu
- Location
- Advertisement Content
- Port Picture to Jumbotron
- Set Location
- Events
- Upgrade Ticket
- Available Seats
- Live Scores
- Purchase Tickets

Data Policies

- Turbo boost 15 min
- Turbo boost 30 min
- Turbo boost 60 min

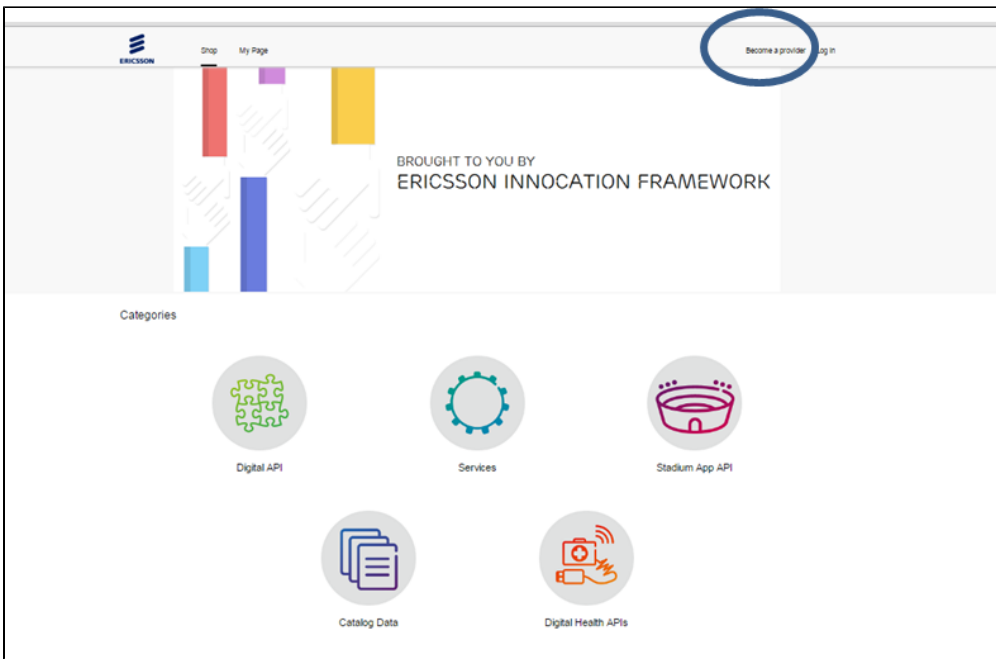
Digital health APIs

- BaseN - at home health monitoring
- PrYv - on the go health monitoring and long term data storage (HIPAA compliant)

For the Developer

The first step is to register yourself as a Developer in the system.

Access the Ericsson Service Innovation Framework here: <http://192.176.47.55:8080/primary/>



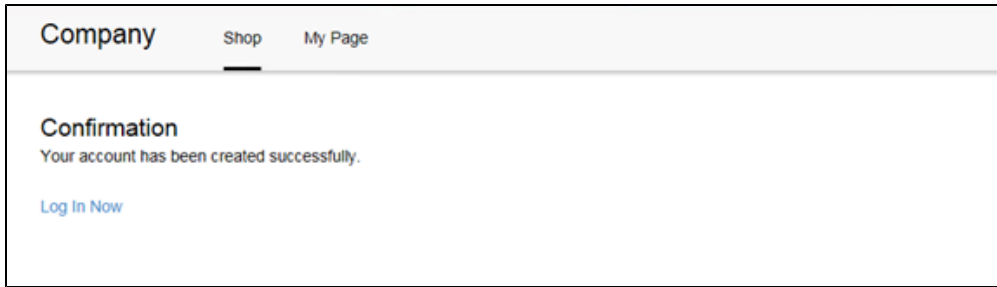
Enter your user name/email - email is important since your code will be generated and sent to your email address.

The screenshot shows the 'Provide Detail Information' registration form. It has a header with 'Company', 'Shop', and 'My Page'. The form fields are: 'User Name*' with value 'ehonyou116', 'Email Address*' with value 'holmes.you@ericsson.com', 'Password*' with masked characters, 'Confirm Password*' with masked characters, and 'Company Name*' with value 'ehonyou116'. There are 'Back' and 'Create' buttons at the bottom. Password rules are listed: 'It must be at least 7 characters. It must only contain alphanumeric characters.'

Enter the registration code that was sent to your email address.

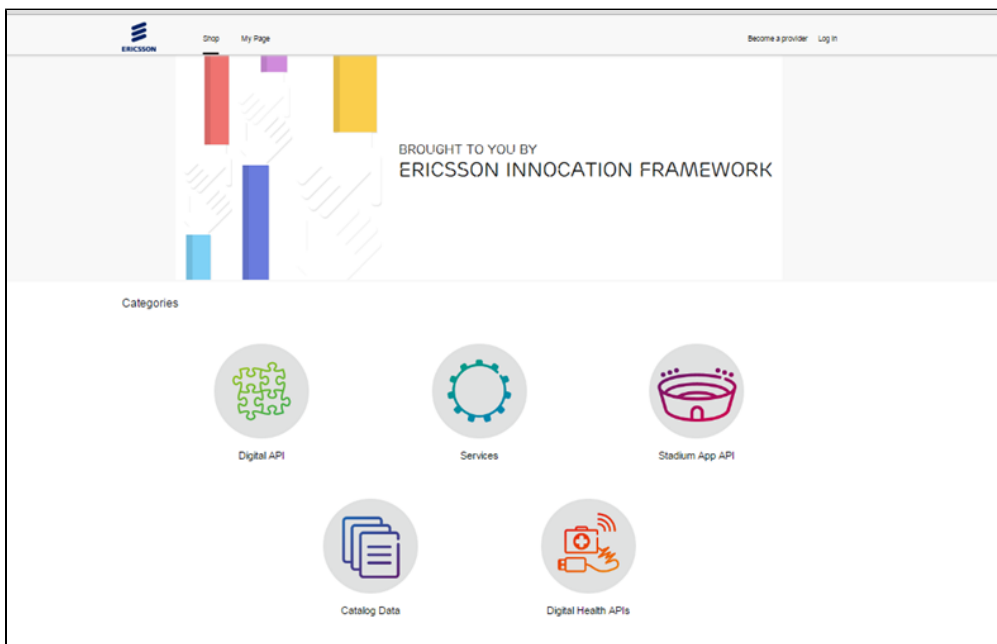
The screenshot shows the 'Verify Your Registration Code' form. It has a header with 'Company', 'Shop', and 'My Page'. The form text says: 'A registration code has been sent to your email address h***u@ericsson.com. Please enter it below.' There is a 'Registration Code*' field with the value '261420' and a 'Continue' button at the bottom.

You should receive a confirmation.









As a developer you will utilize the ESIF (Ericsson Service Innovation Framework) to browse the storefront of APIs available and to purchase each API individually. Although prices are listed you will receive the APIs for free (Pricing is just demoware).


Login and access the Storefront here: <http://192.176.47.55:8080/primary/>



Each Category has the individual APIs

 <p>Identity API Service</p> <p>Authenticate end users with operator account and authorize partners to access end users profile information.</p> <p>View Details</p> <p>Buy</p> <p><input type="checkbox"/> Add to Compare</p>	 <p>Payment API Service</p> <p>Make payment on user account on behalf of the party using this API</p> <p>View Details</p> <p>Buy</p> <p><input type="checkbox"/> Add to Compare</p>	 <p>SMS API</p> <p>The SMS API allows an application to send and receive SMS messages</p> <p>View Details</p> <p>Buy</p> <p><input type="checkbox"/> Add to Compare</p>	 <p>OrderManagement API Service</p> <p>use this API to place order, query and manipulate orders.</p> <p>View Details</p> <p>Buy</p> <p><input type="checkbox"/> Add to Compare</p>
 <p>AccountInfo API Service</p> <p>Query account information from charging system</p> <p>View Details</p> <p>Buy</p>	 <p>CatalogManagement API Service</p> <p>use this API to create,delete,update and query catalog entities.</p> <p>View Details</p> <p>Buy</p>		


View Details for technical information



Identity API Service

€ 20.00 / Monthy
€ 10.00
€ 0.50

[Buy](#)



Description

Authenticate end users with operator account and authorize partners to access end users profile information.

Specifications

- Interface Protocol Type: REST
- API Version: 1.0.0
- Resource URL-URI-External: https://ecdc_host_port/-rest/OpenidConnect/v1/userInfo
- API Content-Ref-External:
- Authentication: HTTP Basic Authentication
- Response Type Format: JSON
- Documentation Link:

Documents

[API Description](#)

Company Name

Open the attached documentation for further details



8. Identity API

Identity API is used to query the user profile.

Identity API follows OpenID Connect specification to communicate with Application. For details about OpenID Connect specification, refer to OpenID Connect Development, [Reference \[5\]](#).

8.1 Functional Overview

The Identity API enables Enterprise Customer, that is Partner, to query the user profile they registered in the Operator side.

Purchase the desired APIs via the buy button.

The screenshot shows a web interface for purchasing APIs. At the top, there's a header with 'Company', 'Shop', and 'My Page' tabs. On the right, it says 'Become a provider ehonyou116' and 'Log out'. Below the header, the main content area is titled 'Stadium Application API' and 'Stadium Application API'. It displays a grid of eight API cards. Each card has a title, a brief description, a 'View Details' button, a green 'Buy' button, and an 'Add to Compare' checkbox. The 'location API Service' card is highlighted with a red border. The cards are: accountInfoAPIPO, CatalogManagement API, Fulfillment API Service, identityAPIPO, location API Service, OrderManagement API Service, paymentAPIPO, and Policy API Service.

The screenshot shows a 'Confirm Purchase' dialog for the 'location API Service'. It displays the following pricing information: 'Monthly Charge for API: € 20.00 / Monthly' and 'One-Time Charge for API: € 10.00'. At the bottom, there's a total price of '€ 0.50' and two buttons: 'Confirm' and 'Cancel'.

Company Shop My Page Become a provider ehonyou116 Log out

Thank You.
We are processing your order now. You could visit [Order History](#) to make changes to your order and track order status.

Order Summary
Order ID: 15148987
Order Status: Processing

Items in your order:	
location API Service	Monthly Charge for APIs: € 20.00 / Monthly
	One-Time Charge for APIs: € 10.00
	€ 0.50

[Continue Shopping](#)

Access the third party interface manager to create the capability access key for each api purchased:

Access the 3PI manager here: <http://192.176.47.56:8084/tpim/>

Utilize your login/password combo

Company Shop My Page Become a provider ehonyou116 Log out

My Page / Capability Access

Capability Access

[Create](#)

There is no capability access.

Create the capability access key by first entering the API name

Company Shop My Page Become a provider ehonyou116 Log out

My Page Capability Access Capability Access Management

Create Capability Access

Name*

Description

API* ☒ locationAPI ☐ locationAPIPO

[Create](#) [Cancel](#)

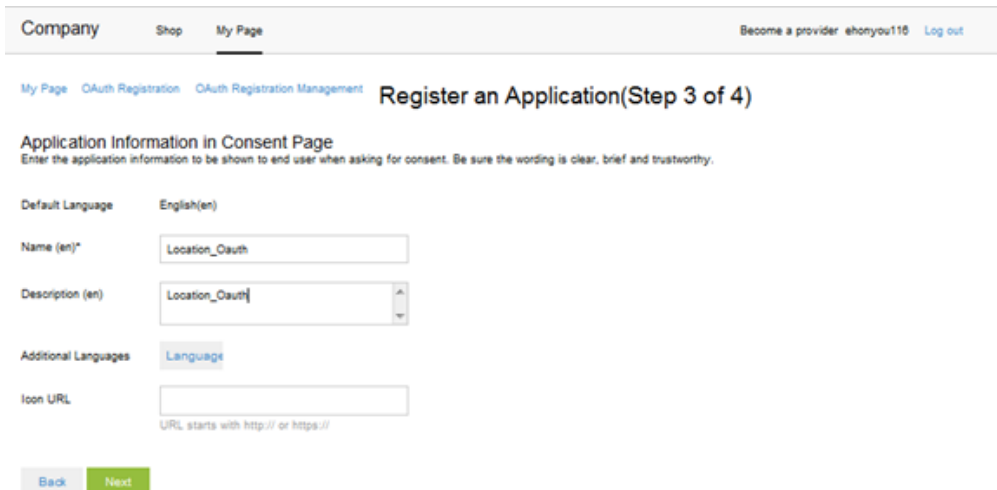
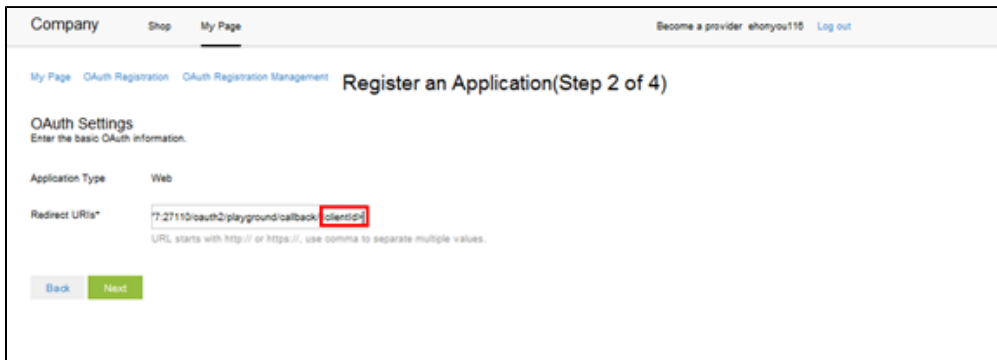
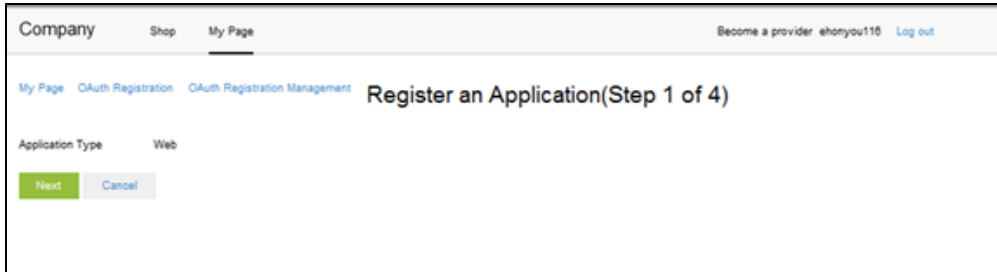
when you click create the capability access key will be provided as below:

- You need to create an Authorization key from the "Key" and "Secret".
 - Use this website to do base64 encoding: <https://www.base64encode.org/>
 - The input string is composite from
 - "key":"secret"
-
- Use the generated string in the HTTP Authorization header. The value is "Basic"+" "+base64string: Authorization: Basic **ZmQzNWYxNmRmNGQxOGQ1MTQ4ZDdkNzFkODVmMTg4N2Y3MWQ4M2ExNmZhOGI5NDg2YTE6YmRYdEZ3RmVrc2dyVW9zTm5ib1luaEwybHdaNm12R2hUOE4dUhnVVdzelNqUVY3ZVc**

You should now have the key to access the API.

If the API you select requires Oauth you will need to create that as follows:

Create Oauth in B2B storefront



Company
Shop
My Page
Become a provider ehonyou116 Log out

My Page OAuth Registration OAuth Registration Management

Register an Application(Step 4 of 4)

Resource Group and Resource(Including Key)
Select the OAuth resource groups and resources for which you want to get end user's consent. Only require what is really needed.

Resource Group* ☒ Location.getLocation(location.get_location)
Authorize the application to get geographic location of mobile device.

Back
Finish

Company
Shop
My Page
Become a provider ehonyou116 Log out

My Page OAuth Registration OAuth Registration Management

Edit OAuth Application

Application Name Location_Oauth

Modified Aug 13, 2015 10:15 AM

Application Type Web

OAuth Settings
Consent Page
OAuth Resource

OAuth Settings

Client ID 7ee7cca6e724b1e1d2148258b4ae25f268e6bbe27aea62b222

Client Secret eDCuCNlir6P80lhnOAWnHXkXbhySfuYmY0vqU6Dmue18zPI [Regenerate Secret](#)

Redirect URIs* 7-27110/oauth2/playground/callback clientId>
URL starts with http:// or https://, use comma to separate multiple values.

Save
Delete
Cancel

Company
Shop
My Page
Become a provider ehonyou116 Log out

My Page OAuth Registration OAuth Registration Management

Edit OAuth Application

Application Name Location_Oauth

Modified Aug 13, 2015 10:15 AM

Application Type Web

OAuth Settings
Consent Page
OAuth Resource

OAuth Settings

Client ID 7ee7cca6e724b1e1d2148258b4ae25f268e6bbe27aea62b222

Client Secret eDCuCNlir6P80lhnOAWnHXkXbhySfuYmY0vqU6Dmue6zPI [Regenerate Secret](#)

Redirect URIs* 24b1e1d2148258b4ae25f268e6bbe27aea62b222
URL starts with http:// or https://, use comma to separate multiple values.

Save
Delete
Cancel

M2M API:

- **Connected Car API** (also known as Vehicle API). [Download POSTMAN collection and run it on Ericsson Platform.](#)

- [See Quick Description \(1\)](#)
- [See Quick Description \(2\)](#)
- [See Quick Description \(3\)](#)

GSMA APIS:

- **Location API** : The Location interface allows an application to query the location of one or more mobile devices. These mobile devices are connected to a mobile operator's network. [Download POSTMAN collection and run it on Ericsson Platform. See Quick Description](#)
- **Payment API** : The Payment interface is used to charge mobile subscribers for use of Web application or content. The API supports reserving funds from a user account for subsequent charging. This can offer additional content within the same session to the user and then apply one charge for the total, while ensuring they have sufficient funds to pay. [Download POSTMAN collection and run it on Ericsson Platform. See Quick Description.](#)
- **SMS API**: The SMS API of ECE is implemented based on the **SMS RESTful NetAPI** protocol. The SMS API can be used to send and receive SMS. [Download POSTMAN Collection and run it on Ericsson Platform. See Quick Description](#)

Open ID Connect ID :

- **Identity API** : The Identity API allows partners to query the end user profile from their operator account. OpenID Connect is employed to offer the APIs for partners who want to handle with operator's account. [Download POSTMAN collection and run it on Ericsson Platform. See Quick Description](#)

TMF APIs:

- **TMF Order Management API V2** : This TMF API allow you to order Products stored in the Ericsson Product Catalog. [Download POSTMAN collection and run it on Ericsson Platform.](#)
- **TMF Catalog Management API V2** : This TMF API allow you to create and retrieve Product Offers and Product Specifications from the Ericsson Product Catalog. [Download POSTMAN collection and run it on Ericsson Platform.](#)
- The deltas from the TMF620 Catalog Specifications and usage examples can be found in [Catalog API description.pdf](#).