



An Coimisiún um  
**Rialáil Cumarsáide**  
Commission for  
**Communications Regulation**

# PIA Consultation and Draft Decision Terms of Reference for Real World Systems Technical Feasibility Study

## Information Notice

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**An Coimisiún um Rialáil Cumarsáide**  
**Commission for Communications Regulation**

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1. On 9 January 2023, the Commission for Communications Regulation (“**ComReg**”) published a Consultation and draft Decision on a Physical Infrastructure Access (“**PIA**”) Market Review (Reference 23/04), together with the annexes to the Consultation and draft Decision (the “**PIA Consultation**”).
2. Annex 4 of the PIA Consultation (Reference 23/04a) is a feasibility study regarding real time access to Passive Access Records prepared by external consultants (Realworld Systems) for use by ComReg in connection with its review of the PIA market.
3. ComReg has received a request for a copy of the Terms of Reference relevant to this feasibility study. In response to that request, ComReg is publishing the Terms of Reference so that all interested parties will have access to the same information.
4. The Terms of Reference are included in Annex 1 below.

# Annex 1: Terms of reference

  
**SCHEDULE 1****THE SERVICES****PART A: THE SERVICES**

The Services include (but are not limited to) the provision by the Service Provider of the following specific requirements.

In the context of its market analysis, ComReg is exploring the technical feasibility and costs of providing access to Operation Support Systems ('OSS') through the Application Programming Interfaces ('API') for Physical Infrastructure Access ('PIA') products and services.

The consultant(s) will be required to identify the suite of API functions required for a set of notional Use Cases. The Use Cases will cover pre-ordering, ordering, and provisioning activities, in addition to status and metric reporting.

The consultant(s) will be required to estimate the costs of implementing the Use Cases using APIs to include labour, hardware (if required) and any software license fees for each of the scenarios listed below at paragraph 6.

The estimate of the labour cost will be based working days per resource required (e.g. project manager, engineering resources, testing etc.).

ComReg's requirements are as follows:

- (1) Identification of the Use Cases for the PI products and services to include pre-ordering, ordering, and provisioning activities and prepare the associated Use Case High-Level-Designs.
  - a. The scope of the Use Cases will cover access to information to prepare network designs, creation of design projects, submission of designs with field survey information including any necessary photographs (if necessary), design validation, design approval, design loading, preparation of optional enabling work instructions, preparation of optional build instructions, the ability of field staff to update designs and to create as-built records with links to the necessary photographs.
  - b. A modular block diagram(s) with a description of the message flows and sequencing, and a written description of how the proposed Use Cases will operate and inter-act with external third-party systems.
- (2) Identification of the API functions to track PI product and service status updates (order acknowledgements, order progress, state transitions chronologically) and to process the associate metrics.
- (3) Preparation of Use Case High-Level-Designs for status updates and metric reporting including a modular block diagram with the data flows and a written description of how the proposed order metrics reporting solution will operate and interact with external third-party systems.
- (4) Identification of solutions to provide real-time access to network information necessary for planning and designing of PI network deployments (both browser and API access).

[REDACTED]

- (5) Provision of the list of Smallworld products and components required to implement the Use Case High-Level-Designs and identification of any necessary Smallworld product customisations.
- (6) The cost estimates will be required for the following scenarios:
  - a. a migration from a legacy release of Smallworld (local installation) to the current release of Smallworld (local installation),
  - b. a migration from a legacy release of Smallworld (local installation) to the current release of Smallworld (cloud-based installation),
  - c. a solution based on the current release of Smallworld (local installation) i.e. no migration required, and
  - d. a solution based on the current release of Smallworld (cloud installation), i.e. no migration required.
- (7) Two versions of the report will be required, a confidential version for ComReg only, and a non-confidential version with commercially sensitive information redacted which will be published on ComReg's publicly available website.
- (8) The delivery of a presentation to ComReg personnel (if requested on-site or remotely) no less than 2 hours in duration in respect of the report.

[REDACTED]

[REDACTED]