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Contract

UKRI-2171 Vista to EPICS project

UK Research and Innovation

F03: Contract award notice
Notice identifier: 2022/S 000-022869
Procurement identifier (OCID): ocds-h6vhtk-0340c0
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Section I: Contracting authority

I.1) Name and addresses

UK Research and Innovation

Polaris House,, North Star Avenue

Swindon

SN2 1FL

Email

commercial@ukri.org

Telephone

+44 1793442000

Country

United Kingdom

Region code

UKK14 - Swindon

Internet address(es)

Main address

www.ukri.org

I.2) Information about joint procurement

The contract is awarded by a central purchasing body

I.4) Type of the contracting authority

Body governed by public law

I.5) Main activity

Other activity

Research and innovation

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

UKRI-2171 Vista to EPICS project

Reference number

UKRI-2171

II.1.2) Main CPV code

- 72320000 - Database services

II.1.3) Type of contract

Services

II.1.4) Short description

the provision of technical and engineering services to support the design, implementation and validation of some work packages of the Vista to EPICS project in ISIS Neutron and Muon Source. The support services will be ordered under a framework service contract by means of task orders. Most of the job can be performed at the Contractor premises but some tasks might require for presence at ISIS premises.

II.1.6) Information about lots

This contract is divided into lots: No

II.1.7) Total value of the procurement (excluding VAT)

Value excluding VAT: £720,000

II.2) Description

II.2.3) Place of performance

NUTS codes

- UKJ14 - Oxfordshire

Main site or place of performance

Oxfordshire

II.2.4) Description of the procurement

Initial tasks

Move OpenVMS applications to Linux/EPICS. Related to WP-7

The Open VMS servers that host the V-system run many different control applications written in VSI Basic and C. These applications shall be converted into Python and moved to the new Linux servers hosting EPICS.

The first step would be to document each of these software applications. The document shall include a high-level functional description of each application.

Some of these applications are or will be obsolete. The in-house team will use the delivered functional descriptions to identify which of these applications are obsolete and therefore do not need to be moved into the new Linux servers or EPICS.

After this step is done the contractor team will proceed to translate and move the remaining applications from the OpenVMS/Vsystem servers to the Linux/EPICS architecture.

Many of these applications are called from a control screen. A validation process needs to be done to make sure that all the elements in the control chain (screen, application, middleware) are properly linked and operate as expected.

Vsystem specific code includes:

- Readers – input data from controlled hardware, e.g. FINS, Modbus, CPS (internally-developed XML format), etc. Approximately 10 readers, all written in ANSI C.

- Handlers – output data from controlled hardware (same as above). Approximately 10 handlers, all written in ANSI C.

- Applications – either triggered by user action or scheduled. There are a minimum of 346 applications (~125k Lines of Code (LOC)) written in VSI Basic applications, and a further 28 written in C ~2.6k LOC).

- Scripts – a mixture of simple wrappers around other applications, system functionality, and more advanced scripting. There are a minimum of 493 scripts written in DCL (Digital Command Language; the default command line interpreter for OpenVMS systems) (~20k LOC) and a further 26 written in Python (~2k LOC).

- Converters – strictly change engineering units to display units or vice versa, but often used for more complicated purposes internal to Vsystem triggered uses. 25 files (~4.5k LOC) written in Ansi C.

- Vsystem shareable images – overlap with applications above, primarily VSI Basic. These are user generated libraries called by Vsystem, and unlike applications are not runnable separately in a shell.

Validation platform. Related to WP-2, WP-6 and WP-7

Design and build a platform to test and validate the V-system screens that are converted into EPICS, the software applications that are moved from the OpenVMS server into the Linux server and the new middleware interfaces.

This platform will have to check that the EPICS screens are properly linked with the applications in the Linux server and the middleware that conform the rest of the control system. A list of the different types of middleware that we use at ISIS will be given in the TO.

It will also be used to test and validate any new or modified screens, applications and interfaces before these are implemented in the control system.

Apart from the platform itself, a method for the testing and validation of these components as well as a template document for documenting these tests should be given.

II.2.5) Award criteria

Cost criterion - Name: Price / Weighting: 40

Cost criterion - Name: Quality / Weighting: 60

II.2.11) Information about options

Options: No

II.2.13) Information about European Union Funds

The procurement is related to a project and/or programme financed by European Union funds: No

Section IV. Procedure

IV.1) Description

IV.1.1) Type of procedure

Open procedure

IV.1.8) Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: Yes

IV.2) Administrative information

IV.2.1) Previous publication concerning this procedure

Notice number: 2022/S 000-014874

Section V. Award of contract

Contract No

UKRI-2171

A contract/lot is awarded: Yes

V.2) Award of contract

V.2.1) Date of conclusion of the contract

2 August 2022

V.2.2) Information about tenders

Number of tenders received: 1

Number of tenders received from SMEs: 1

The contract has been awarded to a group of economic operators: No

V.2.3) Name and address of the contractor

Mobiis Co Ltd

253 Pangyo ro, Bundang gu

Seongnam

13486

Country

South Korea

NUTS code

- KR - South Korea

National registration number

7158700423

The contractor is an SME

Yes

V.2.4) Information on value of contract/lot (excluding VAT)

Total value of the contract/lot: £720,000

Section VI. Complementary information

VI.3) Additional information

The contracting authority considers that this contract may be suitable for economic operators that are small or medium enterprises (SMEs). However, any selection of tenderers will be based solely on the criteria set out for the procurement.

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 GO Reference: GO-2022817-PRO-20804221

VI.4) Procedures for review

VI.4.1) Review body

UK Research and Innovation

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Internet address

https://www.ukri.org

VI.4.2) Body responsible for mediation procedures

UK Research and Innovation

Polaris House,, North Star Avenue

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commercial@ukri.org

Country

United Kingdom