



Dienst Justitiële Inrichtingen
Ministerie van Justitie en Veiligheid

Wishes

Annex 2

Bullet Component Ballistic Identification System

For the Netherlands Forensic Institute

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Introduction

This are the Wishes. It contains a number of questions that we would like you to answer. We call these questions the 'wishes'. On the one hand, we would like more information on how you would complete the described Assignment. On the other, we offer you the opportunity to stand out and present yourself as a potential partner for the Contracting Authority.

The award criterion

The award methodology of this tender is the weighted factor method. Under the weighted factor method, there are two sub-award criteria: quality and price. The distribution of sub-award criteria is detailed in the table below. The valid Tenders will be evaluated based on this distribution.

The ratio

The following weighting will be used in the award process:

Most economically advantageous tender based on best value for money using the weighted factor method.			Maximum number of points to be obtained	
Sub-award criterion quality	Wish 1	System performance		36
	<i>Wish 1.1</i>	<i>What is the repeatability of measurements of the same sample when measured twice?</i>	6	
	<i>Wish 1.2</i>	<i>Are there qualitative differences in the scratch marks if measured on different bullet materials?</i>	6	
	<i>Wish 1.3</i>	<i>How well can fine and coarse details in the scratch marks be determined?</i>	6	
	<i>Wish 1.4</i>	<i>How well/fast/easily can data and metadata from the system be used in the same third-party system?</i>	6	
	<i>Wish 1.5</i>	<i>What additional functionalities does the System offer compared to a conventional comparison microscope?</i>	6	
	<i>Wish 1.6</i>	<i>What are the scores for matches between known matching bullet pairs and known non-matching bullet pairs?</i>	6	
	Wish 2	User-friendliness		30
	<i>Wish 2.1</i>	Intuitive operation	5	
	<i>Wish 2.2</i>	Acquisition	10	
	<i>Wish 2.3</i>	Analysis	10	
	<i>Wish 2.4</i>	Report	5	
	Wish 3	Adaptability (Adaption to a new weapon)		10
Sub-award criterion price				24
Maximum number of points to be scored				100

Minimum score

For wishes 1.1 to 1.6 and 2.2 and 2.3, a minimum score of 50% (sufficient) is required. Tenderers should achieve a score equal or higher than that minimum for these wishes. If the score on these wishes is less than 50%, the Contracting Authority will consider the Tender invalid. The Contracting Authority will exclude this Tender from further participation in the tender procedure.

Assessment and calculation score of wishes

The assessment team consists of qualified firearms investigators. Each assessment team member first individually assesses the response to wishes 1, 2 and 3 on quality and assigns a score for each wish individually in accordance with the assessment table listed for each wish in the boxes below. The rating tables set out the scoring methodology. This enumeration is exhaustive - only the individual assessor can assign these scores for each requirement.

After the individual assessment, during the consensus meeting, the individual assessments are compared side by side, and members of the assessment team substantiate their individual assessments. The final score for each wish is then determined by consensus.

Instruction on responding to wishes

- An indication is given of how each wish should be answered.
- If a maximum number of pages is specified for answering a wish, and the maximum number of pages is exceeded, the part affected by that excess will be set aside, and the assessment and resulting score will be based only on the maximum number of A4's specified;
- To ensure equality of assessment, added links are not assessed;
- Under the wish elaboration, the Tenderer should distinguish any sub-questions from each other by clearly indicating (with headings) to which sub-question the elaboration relates;
- Make sure your description does not contradict the stated requirements in the Requirements (Annex 1);
- The answer to the wishes, including the results of the tests under wishes 1 and 2, will be included in the Agreement, which means that the Contractor will be bound in the performance of the Agreement by what it has given in the wish list.

Schedule of Wishes

Wish 1 System performance	36 points
Introduction The Contracting Authority wishes to assess the performance of the tenderer's System by conducting a number of tests. These tests have been elaborated into 7 sub-wishes. The question <i>Wish 1.1 What is the repeatability of measurements of the same sample when measured twice?</i> This test indicates the extent to which two identical measurements on the same object at two different times coincide. <i>Wish 1.2 Are there quality differences in the scratch marks when measured on different bullet materials?</i> Different carrier materials (bullet material such as lead, copper, brass, nickel or plastic) affect the trace image a barrel transfers to a bullet fired from it. This test provides more insight into the extent to which the System presents these visual differences. <i>Wish 1.3 How well can fine and coarse details in the scratch marks be determined?</i> This test gives a visual picture of the resolution of the System and how fine and sharply the tracks can be imaged. <i>Wish 1.4 How well/fast/easily can data and metadata from the system be used in the same third-party system?</i> This test assesses whether comparison of the ballistic data with another customer's same system is possible and can be performed directly from its own Location. <i>Wish 1.5 What additional functionalities does the System offer compared to a conventional comparison microscope (Leica FSC)?</i> This test involves actions or operations that cannot be performed with a conventional optical microscope but can be performed with the System. How many more useful features does the System offer than the conventional microscope? <i>Wish 1.6 What are the scores for matches between known matching bullet pairs and known non-matching bullet pairs?</i> A comparison (correlation) always has a degree of similarity. This test measures how clearly and distinctively matches are displayed by the System. Assessment Wishes 1.1 to 1.6 are assessed, using a test system, for each requirement qualitatively (visually) in accordance with the assessment table below. The better these wishes are met, the higher the score given.	

Score	Rating	Quality of the test performed
0%	None	The test cannot be performed because the tenderer's System is not available or does not correspond to the requested System.
25%	Insufficient	Test of the tenderer's System yields insufficient result. The tenderer's System does not meet (most) of the requested aspects and is not usable by Contracting Authority. Wish 1.1: The measurements do not match sufficiently (<60%). Wish 1.2: Traces in only one or two materials are well presented. Wish 1.3: Both fine and coarse traces are insufficiently sharply imaged. Wish 1.4: Some of the data can be compared with that in the same third-party system, with third-party intervention and not at their own Location. Wish 1.5: The System offers one additional useful feature over a conventional microscope. Wish 1.6: Of the matches to be achieved, <60% are displayed clearly and distinctively.
50%	Sufficient	The result of the tenderer's System test is sufficiently useful to the Contracting Authority but does not provide added value to the Contracting Authority. Wish 1.1: The measurements match sufficiently (60-75%). Wish 1.2: The tracks in three different materials are well presented. Wish 1.3: The coarse traces are depicted sufficiently sharply, while the fine traces are less so. Wish 1.4: The data can be compared with the same third-party system and with third-party intervention but not on its own location. Wish 1.5: The System offers two additional useful features over a conventional microscope. Wish 1.6: Of the matches to be achieved, 60-75% are displayed clearly and distinctively.
75%	Good	The result of the tenderer's System test is of good use to Contracting Authority. All aspects are of good quality and add value to the Contracting Authority. Wish 1.1: The measurements correspond well (76-90%). Wish 1.2: The tracks in four different materials are well presented. Wish 1.3: The fine traces are depicted sufficiently sharply, but the coarse ones are less so. Wish 1.4: The data can be compared at its own location with those in the same third-party system with third-party intervention. Wish 1.5: The System offers three additional useful features over a conventional microscope. Wish 1.6: Of the matches to be achieved, 76-90% are displayed clearly and distinctively.
100%	Excellent	The tenderer's System test result is outstandingly useful for the Contracting Authority. All aspects are qualitatively excellent and offer plenty of added value for the Contracting Authority. Wish 1.1: The measurements correspond outstandingly (91-100%). Wish 1.2: The tracks in five different materials are well presented. Wish 1.3: Both fine and coarse traces are depicted with sufficient sharpness. Wish 1.4: The data can be compared directly in its own location with that in the same third-party system without third-party intervention. Wish 1.5: The System offers more than three additional useful features over a conventional microscope. Wish 1.6: Of the matches to be achieved, 91-100% are displayed clearly and distinctively.

For wishes 1.1 to 1.6, a minimum obtainable score of 50% (satisfactory) is required. Tenderers should achieve a score equal or higher than that minimum for these wishes. If the score on these wishes is less than 50%, the Contracting Authority will consider the Tender invalid. The Contracting Authority will exclude this Tender from further participation in the tender procedure.

Format

To perform the tests, an identical test system with a user manual should be available for the Contracting Authority, according to the schedule in the Tendering guidelines, with the Tenderer, the Contracting Authority or another customer of the tenderer. The location of the System for conducting the tests is accessible to the Contracting Authority within 3 hours of air travel from the Contracting Authority's Location.

The Contracting Authority will send a complete test kit (about 20 bullets and fragments) to the tenderers within 1 day of the final tender deadline (see schedule in the Tendering guidelines) for testing. The tenderer should have the bullets and fragments entered into the test system and available for testing before the test date.

The test should be completed within two weeks of the registration deadline. The Contracting Authority will make an appointment with the tenderer's contact person for this purpose after the final tender deadline.

Wish 2 User-friendliness

30 points

Introduction

The Contracting Authority wants a System that is easy for the user to operate, provides clear instructions, operates effectively and efficiently and is as close as possible to what the user intuitively does when he wants to perform an analysis. The System provides an intuitive and easy-to-use user interface, complete on- and offline help and a manual. The Contracting Authority wishes to assess the user-friendliness of the tenderer's System by conducting a number of user tests.

The question

Tenderer demonstrates the usability of the System to what extent the offered System meets the following aspects:

Wish 2.1: Intuitive operation

The extent to which users have to search for functions or refer back to the manual.

Wish 2.2: Acquisition

How long does the whole process of placing a sample in the scanner, scanning and reviewing the scan result until it is ready for further processing take? The test is performed for intact bullets and for deformed or damaged bullets or fragments. This test gives global insight into the time required for the recording process, taking into account that part of the scanning time is determined by the user.

Wish 2.3 Analysis

How clear and informative are the results displayed, and what are the image editing options?

Wish 2.4: Report

How and how easily can the results be exported?

Assessment

Wish 2, using a testing system, is qualitatively assessed in accordance with the assessment table below. During the test, user actions that can be expected under normal operating conditions in practice will be performed. The Contracting Authority evaluates the System according to wishes 2.1 to 2.4 described above. The better fulfilled the said aspects are, the higher the score given.

Score	Rating	Quality of usability test
0%	None	The usability test cannot be performed because the tenderer's System is not available or does not match the requested System.
25%	Insufficient	Test of the tenderer's System yields insufficient result. The tenderer's System does not meet (most) of the requested aspects and is not usable by Contracting Authority. Wish 2.1: The System does not work intuitively enough. Users constantly search for functions and/or constantly refer back to the manual. Wish 2.2: The whole process of acquisition takes a very long time. >30 minutes for intact bullets) and >45 minutes for deformed bullets/fragments. Wish 2.3: The results are not displayed clearly or informatively and there are insufficient image editing options. Wish 2.4: The results can be exported on paper or digitally in at least PDF or XLS format.
50%	Sufficient	The result of the tenderer's System test is sufficiently useful to the Contracting Authority but does not provide added value to the Contracting Authority. Wish 2.1: The System works sufficiently intuitively. Users do not constantly search for functions and/or constantly refer back to the manual. Wish 2.2: The whole process of acquisition takes some time, but is sufficiently manageable. 20-30 minutes for intact bullets and 30-45 minutes for deformed bullets/fragments. Wish 2.3: The results are sufficiently clear or sufficiently informative and there are some useful image editing options. Wish 2.4: The results can be exported both on paper and digitally in at least PDF or XLS format.
75%	Good	The result of the tenderer's System test is of good use to Contracting Authority. All aspects are of good quality and add value to the Contracting Authority. Wish 2.1: The System works well intuitively. Users search for features or refer back to the manual to a very limited extent. Wish 2.2: The whole process of acquisition takes a relatively short time (10-20 minutes for intact bullets and 20-30 minutes for deformed bullets/fragments). Wish 2.3: The results are clearly and informatively displayed and there are several useful image editing options. Wish 2.4: The results can be conveniently exported both on paper and digitally in at least PDF and XLS formats.
100%	Excellent	The tenderer's System test result is outstandingly useful for the Contracting Authority. All aspects are qualitatively excellent and offer plenty of added value for the Contracting Authority. Wish 2.1: The System works very intuitively. Users do not search for features or refer back to the manual. Wish 2.2: The whole process of acquisition is very short. <10 minutes for intact bullets) and <20 minutes for deformed bullets/fragments. Wish 2.3: The results are clearly and informatively displayed, and the image editing capabilities are outstanding. Wish 2.4: The results can be quickly and conveniently exported both on paper and digitally in at least PDF and XLS formats.

Wishes 2.2 and 2.3 require a minimum score of 50% (sufficient). Tenderers should achieve a score equal or higher than that minimum for these wishes. If the score on these wishes is less than 50%, the Contracting Authority will consider the Tender invalid. The Contracting Authority will exclude this Tender from further participation in the tender procedure.

Format

To be able to carry out the user test, an identical test system with a user manual should be available for the Contracting Authority, according to the schedule in the Tendering guidelines, with the tenderer, the Contracting Authority or another customer of the tenderer. The location of the System for conducting the tests is accessible to the Contracting Authority within 3 hours of air travel from the Contracting Authority's Location.

The Contracting Authority will send a complete test kit (about 20 bullets and fragments) to the tenderers within 1 day after the final tender deadline (see schedule in the Tendering guidelines) for conducting the usage test. The tenderer should have the bullets and fragments entered into the test system and available for testing before the test date.

The test should be completed within two weeks of the registration deadline. The Contracting Authority will make an appointment with the tenderer's contact person for this purpose after the final tender deadline.

Wish 3 Adaptability (Adaptation to new weapon)

10 points

Introduction

By means of a fictitious case, Contracting Authority assesses how the Tenderer responds to a bullet with different system characteristics than the bullets known and for which the System is configured at the start of the Agreement.

The question

A new weapon enters the market at some point during the execution of the Agreement. Can the tenderer adapt the System to a new, unknown weapon with, for example, a barrel with System characteristics not previously seen? And how does the tenderer adjust the System? The tenderer shall also indicate within which period after the appearance of the new weapon the described adaptation of the System will be possible.

The Contracting Authority asks the tenderer to prepare a proposal for the above fictitious case. A real-life example is preferable.

Assessment

Wish 3 is qualitatively assessed in accordance with the assessment table below. The greater the adaptability of the System, the better it will be assessed.

Score	Rating	Quality of the elaboration of the fictional case study
0%	None	The tenderer did not respond at all, and the case was not answered.
20%	Insufficient	The tenderer has developed the case very poorly or almost not at all. The elaboration of the case does not answer the Contracting Authority's question at all.
40%	Moderate	It is unclear what actions the tenderer takes to adapt the System. The adjustment is long overdue (years) and offers no added value for the Contracting Authority in the foreseeable future.
60%	Sufficient	It is clear what actions the tenderer takes to adapt the System. The modification can be implemented within 2 years, providing some added value to the Contracting Authority.
80%	Good	It is clear what actions the tenderer takes to adapt the System. The adaptation can be carried out within 1 year and therefore offers plenty of added value for the Contracting Authority. The adaptability of the tenderer's System offers a good result in the analysis of the new bullets and is almost at the level that the Client was accustomed to when entering into the Agreement.

100%	Excellent	It is clear what actions the tenderer takes to adapt the System. The adaptation can be carried out within six months, offering very high added value for the Contracting Authority. The adaptability of the tenderer's System provides excellent results in analysing the new bullets. It is at the same or higher level than Client is accustomed to at the time of entering into the Agreement.
Format For your elaboration, use a maximum of 1 page A4 single-sided (including any images, tables, diagrams, figures and annexes, etc.) in Arial or Verdana font with point size 9, single line spacing. The tenderer submits the elaboration of Wish 3 as form F.		