

New EMCIP
Corrective Maintenance and Operational Support
**Appendix F of EMSA/OP/15/2016, “Development of New
European Marine Casualty Information Platform (NEW
EMCIP)”**

v.1.0

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1. Introduction

This document defines the services, processes, management plans and deliverables for the Maintenance phase.

2. Maintenance

After transferring the system to EMSA:

- (1) The Contractor keeps the sole responsibility of diagnosing and determining the origin of failures affecting all or part of the System or Products as mentioned in the Tender Specification;
- (2) The Contractor provides telephone and e-mail support to EMSA during normal working hours to advise EMSA on the use of the Software and to receive any other communication related to the system like incidents and/or services requests, and

For the purpose of this project:

- Corrective maintenance is the reactive modification of a software product performed after delivery to correct discovered problems;
- Preventive maintenance is the modification of a software product after delivery to detect and correct latent faults in the software product before they become effective faults. The system has to be updated to the most recent versions of the underlying SW implemented;

The maintenance shall be provided during normal working hours (08.00 to 17.00 Lisbon time) on normal working days (Monday to Friday).

Maintenance has the following time definition:

Table 1 - Maintenance reaction times

Type of Fault	Time to acknowledge	Time to solve
Urgent	3 working hours on 5 days/week basis	1 working day
Critical	2 working days on 5 days/week basis	7 working days
Standard	1 working week on 5 days/week basis	4 working weeks

The following definitions are to be taken into consideration:

- Time to acknowledge - the time the contractor is informed of the problem until the contractor provides an initial investigation and analysis of the problem;
- Time to solve - the time the contractor is informed of the problem until the moment the problem is solved and the service is available again to the end user.
- Type of faults:
 - Urgent - Business stopped: All services are unavailable;

- Critical - Critical Business Impact: Essential service is not available;
- Standard - Business Impact: A non-essential function or service is not available.

Maintenance is deemed to comprise of all operations necessary to maintain the system in perfect working order, or to restore a defective system or one of its components to perfect working order, inclusive of the costs of travelling and labour.

Maintenance shall involve the following tasks:

- (1) EMSA preparing and sending to the Contractor all documents and additional information at its disposal which the Contractor might reasonably request in order to reproduce, detect and correct errors;
- (2) EMSA performing onsite testing and accepting, when it is reasonable to do so, of new versions or new releases of software, as proposed by the Contractor;
- (3) The contractor developing and installing any preventive corrections as long as it is agreed by EMSA those corrections are necessary;
- (4) The Contractor diagnosing errors or flaws found by the Contractor, EMSA or any other user in the system and making any necessary corrections;
- (5) The Contractor providing EMSA with successive Software releases, service packs and emergency fixes and the relevant documentation; installing New Software version on the existing environments; where necessary, adapting and configuring the environments that were used by the previous version of the Software;
- (6) The Contractor providing telephone and e-mail support to EMSA during normal working hours to advise EMSA on the use of the Software and to receive any other communication related to the system like incidents and/or services requests.

The Contractor should undertake to provide EMSA, upon request, with any remote maintenance service, which the Contractor operates or intends to set up. All terminal connection, usage and communication charges shall be borne by the Contractor.

The Contractor has sole responsibility of diagnosing and determining the origin of failures affecting all or part of the System or Products as mentioned in the Tender Specification.

3. Service Desk

With the purpose of supporting the day to day use of the system the contractor is requested to provide a Technical Help Desk to serve as a Single Point of Contact to EMSA on technical issues. Technical Help Desk shall be available during the maintenance periods.

4. Processes and Management Plans

In order to support the services for corrective and preventive maintenance described above, at least the following Processes and Management plans must be in place:

- Change Management as described in chapter 4.1;
- Release Management & Planning as described in chapter 4.2;
- Incident Management as described in chapter 4.3;
- Problem Management as described in chapter 4.4;
- Service Level Management as described in chapter 4.5.

4.1 Change Management

Change Management shall be applied to any change in the system. Such changes can be triggered by EMSA, or by other managerial activities including quality improvement activities, risk management activities, etc. Changes requests may be submitted to increase or decrease the functionality of the solution. Technical changes may be required to overcome challenges in design.

All the changes that have impact to the scope, schedule and/or budget of the project are approved by EMSA according to the change management process. No changes will be initiated until properly documented and approved by EMSA.

4.1.1. Request for Change

Each request for a change in the system is described in a Change Request Form. The form describes the objective and the requirements of the change, identify its impacts on the existing system, and gives orientations on its implementation. Each change request form must be approved by EMSA and the contractor.

4.1.2. Review Change Request

Every proposed change is to be formally documented and submitted for approval using a Change Request Form. The Contractor will review the Change, analyse the scope of the request, and agree with EMSA on the impact of performing the evaluation of the change request. If EMSA accepts the impact (cost and/or time slippage), the Contractor assigns the resources required to evaluate the impact and suggest possible solutions.

4.1.3. Evaluate Proposed Change

The contractor shall evaluate the Change Request to determine the potential impact, risk and complexity of the request.

Simple changes that do not affect the contractual obligations can be prioritised, assigned, and activated on the authority of the Contractor.

Complex changes, changes with significant risk potential or those that affect the contractual obligations between the Contractor and EMSA must be thoroughly evaluated and authorized before any action is taken.

The Contractor will ensure that the requests are dealt with in a timely and cost- effective manner.

4.1.4. Approval of Change

The Contractor will review and present recommendations for dealing with the Change Request to EMSA that is always responsible for making the decision of implementing the recommended changes.

4.1.5. Management

Once the necessary approval has been obtained, the Project Plan and contracts, if needed, are revised as required, and the change action is initiated.

4.2 Release Management & Planning

This chapter presents the Release Management as well as the rules, procedures and tools to be used and followed while executing release management related activities.

EMSA Release Management is a mandatory and documented internal procedure. Bidders shall comply with this procedure. A high level view of this procedure is presented in the following chapters.

4.2.1 Introduction

4.2.1.1 Scope

Release Management is the planning, designing, building, configuring, documenting and testing of hardware and software to create a set of components for a production environment. Release Management should be used for minor, major and emergency hardware and software changes and the bundling of multiple changes into a manageable release.

4.2.1.2 Goal of Release Management

The goal of Release Management is the protection of the production environment and its services through the user of formal procedures and checks working closely with the Change Management and Configuration Management processes.

The main objectives are:

- Plan releases in line with requirements resulting from approved changes;
- Build effective release packages for the deployment of one or more changes into production;
- Test release mechanisms to ensure minimum disruption to the production environment;
- Review preparation for the release to ensure maximum successful deployments;
- Deploy the release in line with structured implementation guidelines.

Because other projects/services may be involved in a new Release, or a heterogeneous or distributed environment could be affected, Release Management must ensure that all technical and non-technical aspects of a Release are covered.

Currently EMSA does not have a true Configuration Management Database (CMDB) tool, as such TeamForge will be used as a Project specific Definitive Software Library (DSL).

Release Management is heavily dependent on Change Management and Configuration Management. Both processes concur to accurately assess the impact of changes being made and to keep the DSL and CMDB accurate and up to date. Without these processes, Releases will not be controllable.

4.2.1.3 Release Management Benefits

Several benefits can be found when using a well-defined and clear Release Management methodology:

- The possibility to plan resource requirements in advance;
- A structured approach leads to an efficient and effective process;
- Changes are bundled together in a release, minimizing the impact on the user;
- Helps to verify correct usability and functionality before releasing it to the users;
- Provides version control and central storage, which ensures correct version use;
- Provides a set of documentation and benchmarks for each release in production;
- Provides clear communication of release status and release risks.

4.2.2 Release Policy

The release policy covers the following aspects of the release management process: release version numbering, release intervals, the use of emergency releases, the release-unit level for each application, and the deliverables for each type of release.

The policy presents the framework based on which major and / or service pack releases are composed and planned. All releases will be coordinated by project management.

This policy applies to all the software being developed in the context of EMSA's projects.

4.2.2.1 Release Levels

The Project Team shall follow a versioning schema, classified into Major, Service Pack and Emergency software fixes with the following characteristics:

- Major software release upgrades, normally containing large areas of new functionality, some of which may make intervening fixes to Problems redundant. A major upgrade or release usually supersedes all preceding Service Packs, Patch Releases or Hot Fixes;
- Service Pack release upgrades, normally containing small enhancements and fixes, some of which may have already been issued as emergency fixes. A Service Pack upgrade usually supersedes all preceding Patch Releases or Hot Fixes;
- Emergency software fixes, normally containing the corrections to a small number of known Problems.

Patches and emergency software fixes should only be issued for blocking problems, while non-blocking issues shall be planned and included in Major Releases and Service Packs that are scheduled in advance and are issued during agreed intervals.

Major releases and Service Packs shall be defined in the project planning. The frequency can be revised at the end of each defined period for the following defined period. Every change that does not

fall into the frequency defined/planned should be treated as an emergency software fix and be handled accordingly.

4.2.2.2 Release Lifecycle

When planning new releases, the following guidelines should be taken into consideration:

- Major release upgrades: the interval should be of, at least, 6 months between releases;
- Service Pack upgrades: the interval should be of, at least, 6 weeks between service packs;
- Emergency software fixes: will be addressed and analysed on a case by case basis, taking into consideration the severity of the problems corrected in the fix.

Emergency fixes, due to their critical nature, do not follow the standard times defined hereafter and are treated on a case-by-case scenario.

Depending on the environment, the following intervals should be respected as well:

- Testing environment:
 - no restrictions will be applied, but any changes to this environment must be discussed and agreed between the Business Unit and the ICT.
- Pre-production environment:
 - a maximum of 1 release per week;
 - Maximum 1-2 updates of App's Pre-Prod Environment;
- Production environment:
 - a minimum of 6 weeks between deployments¹ of new releases;
 - 1 scheduled downtime for 1 update of App's Prod Environment;
 - Minimum 2 week stability period¹ of Pre-Prod before changes can be put into Prod Environment;
 - All releases must be scheduled to be applied from Tuesday to Thursday, trying to avoid dates immediately before or after an holiday period.

¹ Since EMSA closes every year for one and a half weeks during the Christmas period, the preceding days of this period shall be avoided, because the technical support needed for the solving of an eventual problem might not be available. Also the summer vacation period should be taken into consideration when planning for new releases.

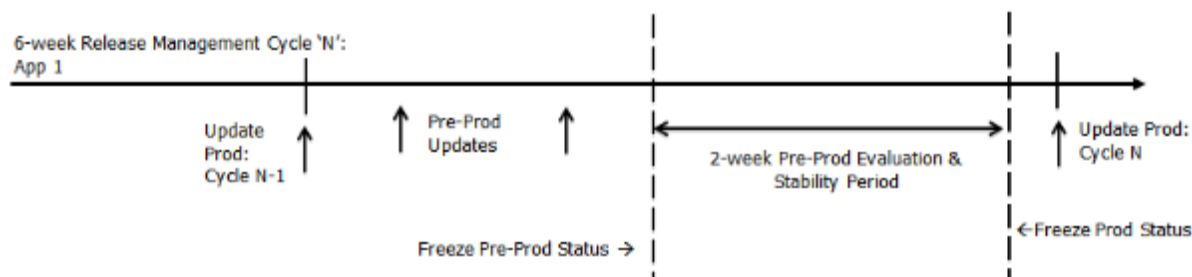


Figure 1 - 6 Weeks Lifecycle

4.2.2.3 Release Version Numbering

According to the release identification mentioned in the previous section, each version should be named in the following format: V.xx.yy.zz, where:

- xx - numeric sequential index representing a major release;
- yy - numeric sequential index representing a service pack;
- zz - numeric sequential index representing an emergency fix.

4.2.2.4 Release Build Environment & Management

The New EMCIP system and all its components shall be built at EMSA using EMSA building environment before entering any EMSA environment.

Tools used in the build environment:

Licence Name	Version
Red Hat Enterprise Linux Server	6.4
Apache Maven	2.2.1 and 3.0.4
Apache Ant version	1.8.1
Apache Archiva	2.1.1
Hudson	3.2.1
SonarQube	4.5.1
Subversion	1.6
TeamForge	7.2

Requirements:

- Contractors must stick to and use these tools and provide deliverables using them. EMSA is open to discuss version upgrades if deemed necessary and justified;
- Build procedure and scripts must be fully integrated with the these tools;
- The New EMCIP system (including all related tools/components) must be built without human intervention;
- The release building process is documented and is a part of the release documentation;
- EMSA considers a new version delivered when:
 - Source Code is successfully submitted to Subversion;
 - All Maven external repositories are configured in Archive;
 - All needed components and libraries are downloaded from the external repositories, stored in and served by EMSA Archive;
 - Build procedures are configured in Hudson;
 - Hudson build procedure is able to successfully build New EMCIP and all related tools/components;
 - Results of the Quality Gate as defined in its Annex are evaluated and decision to accept or reject the release will be taken based on the conditions;
- The release building process is documented and is a part of the release documentation.

4.2.2.5 Required Documentation and deliverables

The following documentation shall be delivered with the new release package:

- Deployment plan (mandatory)
 - Action plan
 - Work breakdown;
 - Contingency plans.
- Roll-back plan (mandatory)
 - Identify the "points of no return"
 - Detailed steps required to roll-back to the previous Release
- Configuration scripts (if any)
- For **a full delivery** (typically in the end of the development phase), Contractor to send a zip file containing:
 - source code in a versioning structure for the specific components developed for EMSA
 - binaries for all the COTS and libraries used in the system
 - update/configure archive with the relevant repositories and if needed, manually upload libraries and COTS o scripts/artifacts/instructions on how to build it o software configuration item list document, specifying:
 - software configuration items version being delivered
 - COTS and libraries versions
 - release note describing changes
 - reference to the tests made (successful ones of course) and corresponding SPRs (software problem report) solved with the included fixes or new implementations

- installation manual/instructions
- For **every updated delivery** (patch/new release), Contractor to send a zip file containing:
 - Source code in a versioning structure for the changed and new components
 - Binaries for the changed or new COTS and libraries
 - update/configure archive with the relevant repositories and if needed, manually upload libraries and COTS
 - scripts/artefacts/instructions on how to build it o software configuration item list document, specifying:
 - software configuration items version being delivered with instructions specifying what are the differences for this delivery:
 - New components;
 - Changed components;
 - Deleted components.
 - COTS and libraries versions
 - release note describing changes
 - reference to the tests made (successful ones of course) and corresponding SPRs (software problem report) solved with the included fixes or new implementations
 - patch script to update the source code from the current version to the next one
 - installation manual/instructions.

Bidders shall comply with this procedure. Any deviation or change to the above policy or procedure shall be described in the bids.

4.2.3 Incident Management

Incident Management should include the resolution of incidents and the handling of service requests (e.g. requests for information/support, requests for sending specific notifications to end users) issued to staff offering technical help desk services. The key objective is to guarantee that incidents and requests are handled accurately, completely, and in a timely manner ensuring therefore adherence to the agreed service levels.

4.2.3.1 Approach

The bidder shall provide a clear approach of the incident management process that includes as a minimum the following activities:

- Incident detection and recording,
- Classification and initial support,
- Investigation and diagnosis,
- Resolution and recovery,
- Incident closure,
- Incident ownership, monitoring, tracking and communication.

4.3 Problem Management

Problem management should include the resolution of problems in response to one or more reported incidents with unknown cause. An appropriate solution needs to be provided for that allows for rapidly and effectively detection and resolving the underlying causes of incidents.

4.3.1 Approach

The bidder shall provide a clear approach to the problem management process that includes as a minimum the following activities:

- Problem Analysis, Categorisation, and Prioritisation;
- Problem Investigation and Diagnosis;
- Provision of the Solution.

The contractor must propose a Categorisation and Prioritisation and indication of the Service Level Agreement (at least time to respond and time to correct) proposed for each level.

4.4 Service Level Management

Service Level Management (SLM) should be foreseen in order to define and manage the levels of offered services. The contractor must describe all Service Level Agreements for the Maintenance.

The SLM should deliver a cost effective service that is of quality, meeting or exceeding EMSA's expectations. To this effect, a number of activities are to be performed focusing on:

- Monitoring and analysing the service delivery procedures, performance and quality targets, in terms of compliance to the SLA, effectively and timely reacting to incidents of non-compliance;
- Producing service level reports on regular or on-demand basis (in special cases), which provide a detailed and representative view of the service quality and performance;
- Continuously assessing the procedures and service levels against the nature of events occurred, in order to identify potential problems, deficiencies, trends, etc.;
- Suggest and implement improvements.

The Contractor shall propose an approach on the preparation, and execution & monitoring, and a control (improvement) task related to SLM that includes the following details.

4.4.1 SLM Preparation

- The definition of services to be provided to EMSA;
- The definition of service level requirements, criteria, and metrics (Contract, SLA);
- The definition of the on-going activities that support the appropriate service delivery for at least monitoring of metrics, evaluation of service;
- The definition of roles, responsibilities and activities for the services to be offered;
- The identification of potential risks and problems that may be encountered, and the means to handle them.

4.4.2 SLM Execution & Monitoring

- Monitoring and analysing the service delivery procedures, performance and quality targets, in terms of compliance to the SLA, effectively and timely reacting to incidents of non-compliance;
- Producing service level reports on a periodic and on-demand basis, which provide a detailed and representative view of the service quality and performance;
- Continuously assessing the procedures and service levels against the nature of events occurred, in order to identify potential problems, deficiencies, trends, etc..

Mechanisms that will be used for the Service level monitoring and the verification of the compliance to the SLA should be described in detail.

4.4.3 Service Level Reporting

The deliverables of the Service Level reporting should be consistently used for the planning and the implementation of service improvements, for the estimation of the impact of introduction of changes and generally for all the activities related to the management and control of the service.

Formal reporting shall be performed including at least:

- Activities performed during the reporting period;
- Analytical presentation of the service evaluation metrics, along with the corresponding analysis results;
- Comparison between the achieved and the agreed service levels, presented in a way that is both detailed and representative of the service performance and quality;
- Statistics on the number of requests made, the number of open and closed calls, the needed average time taken to initiate an action, and the average time taken to resolve incidents;
- The key issues identified through the service delivery during the reference period. With the term "key issues" we refer among others to:
 - Encountered problems related to either the performance of the Contractor, or the performance of other parties affect the service delivery;
 - Identified trends and changes on the service environment that could be introduced by various factors;
 - Points of improvement and directions for future evolution of the service;
 - Handling of special cases (for example an unusual fluctuation on the experienced workload).
- A summary of the planned actions to be performed by the service personnel during the next reporting period;
- Suggestions proposed concerning the resolution of identified problems and/or the improvement of the service in terms of quality and/or cost- effectiveness;
- Planning for the next reference period.

4.4.4 SLM Control (Improvement)

The Contractor should foresee a process that manages its quality control of the service, and specifically to the extent in which the Contractor has succeeded in designing services and achieving targets according to EMSA's requirements. This process does not refer to the achievement of the service levels, which is part of the SLM monitoring processes described in the previous sections. The SLM control process is to record the effectiveness, performance, and quality of the procedures and mechanisms applied, to identify the cause(s) of poor performance, and propose appropriate changes and improvements. The results of the control process are to be used as an input for performing necessary changes to the Project Management and Quality Control Manual under the agreed review procedures.

5. Deliverables

5.1 Corrective and Preventive Maintenance

The deliverables that are to be produced in the context of Maintenance activities are:

- Monthly Maintenance Reports and Statistics on maintenance activities described in the context of Service Level Management;
- Change Management Documents for each change submitted to the Change Management Process. It must include at least, Change Request Form, Evaluation of the Change, Planning and Acceptance;
- Updated versions of the system deliverables (design documentation, test documentation, user documentation, system documentation, software releases and release notes) for each change implemented and submitted to the Release Management Process.

Reports shall be delivered to EMSA on a monthly base and presented in a meeting held in EMSA premises every 2 months. The meetings in which these reports and statistics are discussed may coincide with others regular project progress meetings unless the need for ad-hoc meetings are identified and arranged for.

5.2 Corrective Maintenance and Operational Support Specifications

The requirements included in this Appendix and those described in the Appendices “Project Delivery” and “Working Procedures and service requirements” have to be considered for the Module 3 of the EMSA/OP/15/2016 procurement.

5.2.1. Requirements structure

A requirement comprises a list of functionalities to be implemented, or services to be provided, by the contractor.

Each requirement has an identification based on the structure: REQ-{progressive number}.

5.2.2. Corrective Maintenance

REQ-1	New EMCIP Code Maintenance
The contractor shall maintain the source code of the software developed for EMSA within the context of the New EMCIP FWC.	
REQ-2	New EMCIP Code Maintenance
<p>The contractor is in charge to edit, maintain and update the following documents:</p> <ul style="list-style-type: none"> - Technical Design Document; - External Interface Control Document; - Operational and Maintenance Manual; - Incident Handling Procedures; - Installation Manual. 	
REQ-3	New EMCIP Releases and Deployment Management
<p>Requests For Change (see REQ-7) will be grouped in releases.</p> <p>EMSA can request at maximum 4 standard releases per year, usually one every 3 or 4 months, and an unlimited number of emergency releases to fix urgent issues (see REQ-8).</p> <p>If requested by EMSA, within the scope of releasing a new version of the system, the contractor shall update the documents listed in the requirement REQ-2.</p> <p>The installation of a new release is an incremental installation, either standard or emergency release.</p> <p>The contractor is in charge to draft the “Release Note” for installing a new release. EMSA is in charge to deploy release in all the New EMCIP environments (see REQ-5). If requested by EMSA the contractor can also be in charge to deploy releases in New EMCIP test environment and the price shall be included in this contract’s module.</p>	
REQ-4	New EMCIP Full Installation
The contractor shall be able to deploy a full installation of the New EMCIP in any platform compliant with EMSA Technical Landscape. EMSA is in charge to set-up the infrastructure as specified in the Technical Landscape, the contractor shall be able to perform a full installation and configuration of the New EMCIP in order to have the service operationally ready in less than 5 working days.	

REQ-5	New EMCIP Environments
The contractor shall support the delivery of the New EMCIP in 5 different environments: Training, Test, Pre-Production, Production and Business Continuity Facilities (BCF).	

5.2.3. Operational Support

REQ-6	Issues management
<p>EMSA is in charge to provide a system for managing issues (the ticketing system currently in use in EMSA is TeamForge).</p> <p>The contractor shall be in charge to address the issues opened by EMSA through the ticketing system according the Service Level Agreement (SLA) as defined within requirement REQ-8.</p> <p>The compliance with the SLA will be measured based on the timestamp recorded by the ticketing system.</p>	

REQ-7	Type of Issues
<p>The issues to be addressed are classified as following. If on the course of the contract other classifications are necessary the contractor will be informed.</p> <p><u>Change Management</u></p> <p>A Request For Change (RFC) shall be applied to any change in the system.</p> <p>A RFC can be: (i) a new functionality, (ii) a defect to be fixed or (iii) a change of the system's configuration.</p> <p>Each RFC in the system is described in a Change Request Form. The Change Request Form can be a document (i.e. a Technical Specification), or a ticket in the ticketing system.</p> <p>A defect (ii) and change of the configuration (iii) shall be addressed by the contractor within the context of the information provided of the Corrective Maintenance. A new functionality shall be addressed by the contractor on the grounds of a new release.</p> <p><u>Incident Management</u></p> <p>Incident Management shall include the resolution of incidents and the handling of service requests (e.g. requests for information/support, requests for sending specific notifications to end users). The key objective is to guarantee that incidents and requests are handled accurately, completely, and in a timely manner ensuring therefore adherence to the agreed service levels.</p> <p>The contractor shall provide the following, but not limited, services:</p> <ul style="list-style-type: none"> • Incident detection and recording; • Classification and initial support; • Investigation and diagnosis; • Resolution and recovery; • Incident closure; • Incident ownership, monitoring, tracking and communication. • 	

Problem Management

Problem management shall include the resolution of problems in response to one or more reported incidents with unknown cause.

The contractor shall provide the following, but not limited, services:

- **Problem Analysis, Categorisation, and Prioritisation,**
- **Problem Investigation and Diagnosis,**
- **Provision of the Solution.**

REQ-8	Service Level Agreement												
<p>The following definitions are to be taken into consideration:</p> <ul style="list-style-type: none">Time to acknowledge - the time the contractor is informed of the problem until the contractor provides an initial investigation and analysis of the issue;Time to solve - the time the contractor is informed of the issue until the moment the issue is solved and the service is available again to the end user.Type of incident priorities:<ul style="list-style-type: none">Urgent - Business stopped. Essential services are unavailable;Critical - Critical Business Impact. The service can be provided with limited, but not essential, functionalities;Standard - Business Impact. A non-essential functionalities or service are not available. <p>For the execution of the issues defined in this contract (see REQ-7), the contractor should meet the service level as defined in Table 1 - SLA.</p> <p>Table 1 – SLA</p> <table><tr><th>Priority of the issues</th><th>Time to acknowledge and provide a preliminary analysis</th><th>Time to Solve</th></tr><tr><td>Urgent</td><td>3 working hours</td><td>1 working day</td></tr><tr><td>Critical</td><td>2 working days</td><td>7 working days</td></tr><tr><td>Standard</td><td>5 working days</td><td>20 working days</td></tr></table> <p>EMSA is responsible to classify the issues (priority, issues type, effort, etc.).</p> <p>In case the contractor disagrees with the EMSA’s classification, the contractor can propose a different classification within the acknowledge time. In case of conflict EMSA has the rights to take the final decision.</p> <p>This SLA is applicable to all the New EMCIP environments.</p> <p>For all the types of issues REQ-7 the Service Level Agreement reported in this requirement is applicable.</p>		Priority of the issues	Time to acknowledge and provide a preliminary analysis	Time to Solve	Urgent	3 working hours	1 working day	Critical	2 working days	7 working days	Standard	5 working days	20 working days
Priority of the issues	Time to acknowledge and provide a preliminary analysis	Time to Solve											
Urgent	3 working hours	1 working day											
Critical	2 working days	7 working days											
Standard	5 working days	20 working days											

REQ-9	Number of issues to be solved
<p>The contractor shall provide operational support according the SLA specified in the requirements REQ-8 for an unlimited number of issues. However in case of defect at maximum the following effort is taken into account:</p> <ul style="list-style-type: none"> - High = 2 days of work; - Medium = 1 day of work; - Low = half hours of work. 	
REQ-10	Configuration Management
<p>EMSA is responsible to configure all the New EMCIP's environments. If requested by EMSA the contractor is in charge to perform the changes in any of the New EMCIP's environments. In principle the contractor could be tasked to configure only test environment.</p>	
REQ-11	Pro-active analysis
<p>Fortnightly, the contractor shall issue a report to the EMSA New EMCIP's Project Manager summarizing possible problem and propose solutions. This task shall be performed, but not limited, on the grounds of an analysis of the New EMCIP's application logs files, system features status (as for example CPU consumption, hard disk consumption, etc.) and a test that the contract shall perform against the system. The tests shall be authorized by the New EMCIP's Project Manager.</p>	
REQ-12	Monthly report
<p>Each month, within the first 7 days, the contractor shall provide a report to EMSA assessing the status of issues open. The report shall at least contain the following information:</p> <ul style="list-style-type: none"> - Total number of open tickets per issue types; - Number of tickets open in the last month per issue types; - Number of tickets closed in the last month per issue types; - Number of tickets that are not compliant with the requirement REQ-8; - Status of the issues identified within the context of requirement REQ-11. 	

REQ-13	Bi-annual report and meeting
<p>The contractor shall draft the bi-annual report containing :</p> <ul style="list-style-type: none"> - Monthly progress reports; - Summary of the major incidents/problems occurred. <p>The report shall be submitted within 14 calendar days from the end of the six-months.</p> <p>Bi-annual (twice a year) meetings shall take place either face-to-face or via teleconferencing.</p> <p>Maintenance will be invoiced following the acceptance by EMSA of the report provided by the contractor at the end of each six-months indicating all maintenance performed during the six-months and a supporting invoice.</p> <p>The contractor shall provide 2 weeks before the bi-annual progress meeting updated versions of the documents described within REQ-2.</p>	

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European Maritime Safety Agency

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