# Contents

1 Introduction .................................................................................................6
  1.1 Purpose ...............................................................................................6
  1.2 Applicability and Scope ........................................................................6
2 Baseline Security Policy .............................................................................7
3 Vulnerability Intelligence Process (VIP) ......................................................8
  3.1 Definition of “Product Security Vulnerability” ........................................8
  3.2 Scope of the VIP ..................................................................................8
  3.3 Active Monitoring ................................................................................10
  3.4 Assessment of Vulnerability Information ............................................10
  3.5 Prioritization of Vulnerabilities ............................................................11
  3.6 Security Advisories (Customer Notification) ..........................................12
4 Reporting and Feedback ............................................................................13
  4.1 Reporting of Product Security Vulnerabilities ........................................13
  4.2 Results of Security Audits .....................................................................13
  4.3 Feedback to Security Advisories ..........................................................14
  4.4 Contact Details ....................................................................................14
5 References ..................................................................................................15
List of changes

<table>
<thead>
<tr>
<th>version</th>
<th>Date</th>
<th>Description</th>
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<tr>
<td>1.0</td>
<td>27th June 2012</td>
<td>Initial draft.</td>
</tr>
<tr>
<td>1.1</td>
<td>11th Nov 2013</td>
<td>Update release (company rebrand, organisational changes)</td>
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</table>
| 1.2     | 1st Feb 2016  | Chapter 1.4: updated product list; added reference to Atos Unify’s Product Lifecycle Policy  
Chapter 2.3.2: update from CVSS version 2 to version 3  
Chapter 2.4: added public URL to access Atos Unify Security Advisories  
Chapter 3.4: updated PGP encryption key  
Various editorial changes |
| 1.2.1   | 23rd May 2018 | Update Logo, remove PGP                                                     |
| 1.2.2   | 3rd April 2019 | Replace obso@unify.com with obso@atos.net                                   |
| 1.2.3   | 3rd June 2019  | Add document number                                                          |
| 1.3     | 30th Sep 2019  | Chapter 1.3: Included hardening scripts  
Chapter 1.4: Updated product scope  
Chapter 3.1: Revision of reporting security vulnerabilities  
Deleted chapter 4 on Security Solutions and Services  
Minor text updates in several chapters |
| 1.4     | 3rd July 2020  | Chapter 1.2: Added OpenScape First Response  
Chapter 2: Baseline Security (added General Security Requirements, Vulnerability Scanning)  
Rebranding of document based on Atos policy template |
## Target readers, communication method

<table>
<thead>
<tr>
<th>Target group</th>
<th>Distribution / publication method</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Atos Unify employees</td>
<td>Published on AIMS</td>
</tr>
<tr>
<td>Customers and Partners</td>
<td>Published on Atos Unify Security Advisories website</td>
</tr>
</tbody>
</table>
## Terms and abbreviations

In general terms and definitions described in ASM-BIP-0001 Atos Management System Manual apply for this process. Additionally, specific for this subject are listed below.

<table>
<thead>
<tr>
<th>Terms / Abbreviations</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIMS</td>
<td>Atos Integrated Management System</td>
</tr>
<tr>
<td>EDMS</td>
<td>Electronic Data Management System</td>
</tr>
<tr>
<td>Policy</td>
<td>In a policy, an organization formally states a system of principles of behavior, conduct etc. thought to be desirable or necessary, to avoid some negative effect, or to seek some positive benefit.</td>
</tr>
<tr>
<td>Process</td>
<td>Processes describe the lower-level approach, including inputs &amp; outputs, workflow, roles and responsibilities, sequence and interaction, determine and apply the criteria and methods (including monitoring, measurements and related performance indicators) needed to ensure the effective operation and control of these processes, resources, assign the responsibilities and authorities, address the risks and opportunities, evaluate these processes and implement any changes needed to ensure that these processes achieve their intended results, improve the processes and the quality management system.</td>
</tr>
<tr>
<td>Procedure</td>
<td>Procedures are set of actions that is the official or accepted way of doing something.</td>
</tr>
<tr>
<td>(Work) Instruction</td>
<td>Work instructions provide detailed step by step guidelines related to a certain action/task.</td>
</tr>
<tr>
<td>BSI</td>
<td>Bundesamt für Sicherheit in der Informationstechnik (see: <a href="https://www.bsi.bund.de/EN/TheBSI/Functions/functions_node.html">https://www.bsi.bund.de/EN/TheBSI/Functions/functions_node.html</a>)</td>
</tr>
<tr>
<td>CERT</td>
<td>Computer Emergency Response Team</td>
</tr>
<tr>
<td>CIS</td>
<td>Center for Internet Security (see: <a href="https://cisecurity.org/">https://cisecurity.org/</a>)</td>
</tr>
<tr>
<td>CVSS</td>
<td>Common Vulnerability Scoring System (see: <a href="https://www.first.org/cvss">https://www.first.org/cvss</a>)</td>
</tr>
<tr>
<td>EMSS</td>
<td>Extended Manufacturer Software Support</td>
</tr>
<tr>
<td>ISO</td>
<td>International Organization for Standardization (see: <a href="https://www.iso.org">https://www.iso.org</a>)</td>
</tr>
<tr>
<td>IT</td>
<td>Information Technology</td>
</tr>
<tr>
<td>OBSO</td>
<td>OpenScape Baseline Security Office</td>
</tr>
<tr>
<td>PGP</td>
<td>Pretty Good Privacy</td>
</tr>
<tr>
<td>PKI</td>
<td>Public Key Infrastructure</td>
</tr>
<tr>
<td>SBC</td>
<td>Session Border Controller</td>
</tr>
<tr>
<td>SQL</td>
<td>Structured Query Language</td>
</tr>
<tr>
<td>SW</td>
<td>Software</td>
</tr>
<tr>
<td>UC</td>
<td>Unified Communications</td>
</tr>
<tr>
<td>URL</td>
<td>Uniform Resource Locator</td>
</tr>
<tr>
<td>VIP</td>
<td>Vulnerability Intelligence Process Security Policy - Vulnerability Intelligence Process</td>
</tr>
</tbody>
</table>
1 Introduction

1.1 Purpose

A key requirement for the products, services and solutions delivered by Unify Software and Solutions GmbH & Co. KG (Atos Unify) is security. It is best engineering practice for security measures to be built in, not bolted on.

Atos Unify supports this requirement by using a comprehensive security software development lifecycle that applies to all new Atos Unify products or product versions being developed. Although constant care is taken during the software development, security vulnerabilities may still emerge after an Atos Unify product was released.

This policy describes the Vulnerability Intelligence Process (VIP) at Atos Unify.

It regulates how to

- Identify, analyze and resolve security vulnerabilities in released Atos Unify products, and
- Deliver guidance to customers how to mitigate or close these vulnerabilities.

1.2 Applicability and Scope

In the current version, the process applies to the following product areas provided by Atos Unify:

- Voice platforms including gateways (such as OpenScape Voice/Branch/SBC, OpenScape 4000, OpenScape Business)
- OpenScape Enterprise Express
- OpenScape First Response
- Circuit Nodes, Circuit Telephony Connector, Circuit Integrations (e.g. Circuit for Outlook, Circuit for Gmail...)
- OpenScape applications (such as UC Applications, Xpressions, Web Collaboration)
- OpenScape Management applications (such as Common Management Platform, Deployment Service, Fault Management, Accounting Management, OpenScape 4000 Manager, Composer)
- End-user devices and applications (such as OpenStage and OpenScape Desk Phone CP phones, OpenScape UC desktop applications and mobile apps, Circuit apps, Circuit Meeting Room)
- OpenScape Contact Center
- OpenScape Xpert
- OpenScape Alarm Response
- OpenScape License Management

All products that belong to these areas are actively monitored for potential vulnerabilities, from the first day they have been released to GA (General Availability), until their End of Standard Support (M44). After M44, customers may negotiate an extension through Extended Manufacturer Software Support (EMSS – see References [1]).
## 2 Baseline Security Policy

The Security Policy - Vulnerability Intelligence Process (VIP) is an integral part of the Baseline Security Policy at Atos Unify. In addition to the software development process, the Baseline Security Policy contains the technical guidelines for the secure development, release and sustaining of the company's products. It defines the fundamental measures for software security that are taken throughout the whole lifecycle of a product:

### Product definition and design:
- Evaluation of products against **General Security Requirements**
- Threat and risk analysis (**Theoretical Security Assessment**) to determine the essential security requirements for the product

### Product development and testing:
- **Vulnerability Scanning** identifies known weaknesses in systems and applications.
- Penetration tests (**Practical Security Assessment**) to discover implementation vulnerabilities and to verify the hardening of the default system configuration

### Installation and start of operation:
- Hardening guides (**Security Checklists and Hardening Scripts**) to support the configuration and hardening of the systems according to the individual customer's security policy
- Operation and maintenance:
  - Proactive **Vulnerability Management** to identify, analyze and resolve security vulnerabilities that emerge after products have been released, and to deliver guidance to customers how to mitigate or close these vulnerabilities
3 Vulnerability Intelligence Process (VIP)

The VIP is within the responsibility of the OpenScape Baseline Security Office (OBSO) at Atos Unify. The OBSO is a global team that, among other tasks, defines and executes the process defined in this document. The scope of the VIP is explained in chapter 3.2. The following chapters describe the key elements of the VIP in detail:

- Permanent monitoring of new and updated security vulnerabilities
- Assessment of their impacts to Atos Unify products and evaluation of countermeasures
- Ensure that the current security checklist is part of the installation instructions of the product documentation
- Notification of customers and users about potential risks

3.1 Definition of “Product Security Vulnerability”

The VIP primarily deals with “product security vulnerabilities”. In the context of this document, “product security vulnerability” is defined as a flaw in a software product of Atos Unify that impairs the product’s designed and available capabilities with regard to confidentiality, integrity or availability. In most cases it therefore requires a new software release or a patch, to be delivered by Atos Unify, to finally solve a “product security vulnerability”.

The remaining part of this chapter lists some examples of what is not considered as “product security vulnerability”:

- The vulnerability can be solved by user-individual or administrative hardening steps. A very common example is the use of default passwords instead of choosing individual, complex ones. It is still the case that a significant percentage of all successful attacks are based on unauthorized access to systems by using the factory default settings.
- Intentional use of a feature or configuration setting that is weaker than current security best-practice. In many situations, a trade-off between security and other interests (such as ease of use, performance, operational costs) may be made. For example, communication in clear text may be configured between two systems residing in the same network segment to speed up the data transfer.
- The (designed or intentional) lack of a product security capability. For example, if a product has implemented only one administrative role or level. The risk is that every user of the product may exceed their privileges by being able to modify data, although not authorized. This is not a vulnerability of the existing product but requires a feature enhancement in a follow-up version of the product.

3.2 Scope of the VIP

The key deliverable of the VIP is to provide customers with reasonable and useful vulnerability information (called Security Advisories, see chapter 0) which they are able to consider in their own vulnerability assessment and patch processes.
A security vulnerability is usually assigned to one of the following three categories:

Cat. 1 - The vulnerability is part of software developed by Atos Unify and included in one or more Atos Unify products

Cat. 2 - The vulnerability is caused by a 3rd-party software component that is embedded in one or more Atos Unify products

Cat. 3 - The vulnerability is caused by the environment, where Atos Unify products operate (such as Operating Systems, where an application has been installed, or products of other vendors, which Atos Unify products are connected with)

Clearly, the VIP applies to Cat. 1 vulnerabilities. Customers should consider the VIP in their individual vulnerability and patch management processes.

The VIP does not apply to Cat. 3 vulnerabilities. To consider Cat. 3 vulnerabilities in vulnerability and patch management processes refer to the corresponding vendor’s security advisories and software release cycles, as well as compatibility matrices that are relevant to the customer’s individual solution setup.

Cat. 2 vulnerabilities belong to the VIP. It depends on the individual 3rd-party software component whether the component can be updated or patched by customers without having to wait for a new fix release of the whole product. This is usually described in an individual product’s documentation or release note. If there is uncertainty for a specific product, ask your service or sales representative at Atos for clarification.

The following figure marks the typical border, where the closure of a security vulnerability requires a new fix release or a patch delivered by Atos Unify.

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**Figure 1 – Product types and applicability of security updates**

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3.3 Active Monitoring

The following sources are monitored for security vulnerabilities that are potentially affecting Atos Unify products:

- Vulnerabilities that become known to the public through various sources, especially through software vendor advisories, CERT (Computer Emergency Response Team) and governmental organizations, and professional vulnerability information service providers\(^1\). Vulnerability information is consolidated among different sources, pre-analyzed in detail, kept up-to-date and delivered quickly to the relevant product teams. The potential relevance and impact of a public vulnerability is determined immediately after, based on the products’ lists of incorporated 3\(^{rd}\) party software components.

- Results of internal security assessments (according to the Baseline Security Policy described in chapter 2). If new vulnerabilities are detected in new Atos Unify products or new versions of products which are still under development, the OBSO determines if the vulnerabilities may also impact already released products or versions and if customers using the released products or versions are at risk.

- Vulnerabilities reported by external security researchers and customers who conduct their own security audits. See chapter 4 for details.

3.4 Assessment of Vulnerability Information

Reported vulnerabilities are assessed by the OBSO for their relevance for Atos Unify products. There is usually one of three possible results for each potentially affected product:

- "False positive": Although the vulnerability was initially assigned to a product, the assessment concludes that the product is not affected. Note that this is a very common case and covers the majority of reported vulnerabilities. It especially applies to vulnerabilities in Cat. 2 software components: Atos Unify products usually only make use of a subset of the functions in a 3\(^{rd}\) party component they have incorporated. The vulnerability often affects a part of that software that is not used, or the vulnerability is not exploitable in the context of the product.

  By default, the OBSO does not proactively inform customers about false positives.

- “Configurative solution”: The vulnerability can be solved without a correction in the affected product. This is usually done by applying configuration changes on customer’s systems or environment, in accordance with the relevant documentation (especially the product’s Security Checklists and/or administration manuals). The OBSO decides on a case-by-case basis, if customers have to be informed through a Security Advisory. In most cases, this only applies, if the proposed configuration settings are not already documented in the above-mentioned manuals or if significant risk is seen for customer installations.

- “Confirmed product security vulnerability”: The vulnerability is confirmed as a flaw in the product and needs a correction. The follow-

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\(^1\) These sources include for example:

- Advisories from vendors (or open source SW providers) for components included in Atos Unify products, such as suse.com, oracle.com, ibm.com opensuse.org, apache.org, kernel.org, openssl.org
- Advisories from governmental institutions and CERT organizations, such as us-cert.gov, cve.mitre.org, nvd.nist.gov
- Commercial vulnerability information provider
up activities are aligned with the process as it applies to any software correction for the product in sustaining mode. Corrections for security vulnerabilities are prioritized according to the criteria described in the following chapter. Security Advisories are provided when significant risk is seen for customer installations.

### 3.5 Prioritization of Vulnerabilities

The following factors contribute to determining the urgency and prioritization of a correction for the vulnerability:

- **"Original priority"**: what is the initial risk level or score given by the vendor of the affected software component or the reporter of the vulnerability?
- Is the vulnerability known to the general public (disclosed) or it is still undisclosed?
- What is the effort required to exploit the vulnerability – and are there already known exploits that impact Atos Unify’s products?
- Are there effective countermeasures available that mitigate the risk?
- Is there more than one Atos Unify product affected? If yes, is there a different risk level for each product?

The vulnerabilities are usually classified according to version 3.0 of the Common Vulnerability Scoring System (CVSS, see [3]). Three different metrics are defined: Base, Temporal and Environmental and each metric calculates a score ranging from 0 to 10. Based on past and current experience, vulnerabilities are classified inconsistently by different vendors. Therefore, CVSS is not used as the final score. Instead, the following simplifications are applied:

- Four risk levels are defined as priorities, ranging from 1 ("high") to 4 ("information only").
- In most cases, only the CVSS Base metric is used to determine the priority.
- In exceptional cases, the CVSS Temporal metric influences the priority (for example, if an existing vulnerability becomes known to be exploited “in the wild”).
- As a rough guidance, the CVSS Base metric value of most vulnerabilities can be mapped as follows:

<table>
<thead>
<tr>
<th>Priority</th>
<th>Risk level</th>
<th>CVSSv3 Base metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>High</td>
<td>7.0-10.0 (High or Critical)</td>
</tr>
<tr>
<td>2</td>
<td>Medium</td>
<td>4.0-6.9 (Medium)</td>
</tr>
<tr>
<td>3</td>
<td>Low</td>
<td>0.1-3.9 (Low)</td>
</tr>
<tr>
<td>4</td>
<td>Information only</td>
<td>0.0 (None)</td>
</tr>
</tbody>
</table>

Figure 2 – Priorities and Risk Level of Vulnerabilities

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2 Prior to July 2015, CVSS version 2.0 was used
3.6 Security Advisories (Customer Notification)

Security Advisories are issued by the OBSO and can be received by any interested customer or partner of Atos Unify.

Customers and partners subscribed to the e-mail distribution list will receive an e-mail whenever a new Security Advisory has been released or an existing Security Advisory has been updated. You can request to be added to (or removed from) the e-mail distribution list by using the contact address in chapter 4.4. (obso@atos.net).

Additionally, all Security Advisories that were released so far can be retrieved from the following public link [2]:

https://www.unify.com/security/advisories

The main purpose of the Security Advisory is for customers to determine if their assets need to be protected, to assess both the probability and impact of a threat and to decide on the appropriate countermeasures.

A Security Advisory contains the following information:

- **Description of the vulnerability:**
  Ideally, the description contains sufficient information (for customers to decide on the countermeasures), but not too detailed information (to prevent malicious attackers from creating and/or executing effective exploits). The description also contains the results of the risk assessment (see chapter 3.4).

- **List of affected products:**
  The Atos Unify products (incl. version numbers, if applicable) that are affected by the vulnerability are listed. This allows for immediate determination whether your individual solution might be at risk or not.

- **Recommended actions:**
  According to the definition in chapter 3.1, in most cases the OBSO recommends applying the associated product update release or patch provided by Atos Unify. Since more than one product or version may be affected by a single vulnerability, the advisory may also contain information about yet unpatched products or versions.

  If applicable, instructions for mitigation or configuration measures are given, how to mitigate or solve the vulnerability without having to apply the described software updates. The described configuration measures may address affected products as well as the customer’s environment.

  In certain circumstances (for example if a particular vulnerability or security incident attracts high attention in the public, or if customers are explicitly asking for a statement), the OBSO may decide to release an advisory, even if no Atos Unify product is affected. Usually, in those cases the recommendation will be: “nothing to do but remain vigilant”.

- **References:**
  A list of publicly accessible external links (URL) may be contained in the advisory. References are provided if the additional information helps customers to assess their risk and plan the countermeasures more accurately.4

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3 The amount and details of information is beyond the OBSO’s influence for vulnerabilities of 3rd party components that are already publicly known.

4 Although the OBSO makes every effort to ensure these links are accurate, up to date and relevant, we cannot take responsibility for external content.
4 Reporting and Feedback

Various forms of feedback and input regarding product security vulnerabilities can be sent to the OBSO, which is described in the next chapters. Contact details are given in chapter 4.4.

4.1 Reporting of Product Security Vulnerabilities

Atos Unify encourages customers, as well as independent security researchers or teams, to report potential vulnerabilities in Atos Unify products. Customers shall report single product specific vulnerabilities via their established support channel in the same way as any other Atos Unify product-related flaw. The OBSO may also be contacted directly for comprehensive product security assessments or major issues.

Before contacting the Atos Unify Support or the OBSO, please
- Consider whether the software version that you run is up to date. Testing for security vulnerabilities should always target the latest software versions provided
- Evaluate whether the issue is considered a “product security vulnerability” according to the definition in chapter 3.1.
- Use the available product-related information – especially their Security Checklists and additional hardening information – to determine if the issue might be a “false positive” or can be solved without a correction in the affected product (see chapter 3.4 for more details)
- Information provided shall be provided in English

When reporting a potential vulnerability in an Atos Unify product, include as many details as possible, such as:
- The name and version of the product that may have the vulnerability, including the installed fix/hot fix releases and patches
- The type of the vulnerability (for example an SQL injection, cross-site scripting vulnerability, privilege escalation, buffer or integer overflow)
- Scanning results/assessment reports with a description of the vulnerability identified
- Configuration settings that do (or may) impact the vulnerability and/or are relevant to reproduce the flaw
- Instructions how to reproduce the flaw (including what tools you have used)
- If available, your exploit code; alternatively, your estimation how the vulnerability could be exploited

In case the vulnerability is confirmed, a disclosure timeline will be agreed between the reporter and the OBSO. The agreement requires a case-by-case decision that depends on the severity of the vulnerability and the potential risk in typical customer installations, as well as the required effort to close the vulnerability and provide an update release or patch of the product. If applicable and welcomed by the reporter, in Atos Unify’s sole discretion, credits are given in the associated Security Advisories.

4.2 Results of Security Audits

Customers who use our products as part of their solutions may perform IT Security Audits, Security Assessments or Penetration Tests. Security Audits should be performed only after having applied all security configuration measures that are relevant according to the individual customer’s security policy. Default recommendations are given in the hardening guidelines of every product, called Security Checklists. For other products involved in the audit, contact the vendor to retrieve similar information.
Typical recommendations contained in hardening guidelines are for example:

- All software is up-to-date and the latest security patches were applied
- Environmental systems, platforms or components (see Cat. 3 in chapter 3.2) are hardened according to the customer’s guides. If there are no such guides, Atos Unify recommends the use of the CIS Security Benchmarks (see [4])
- Unused services/ports are closed or disabled
- Individual strong passwords are set (according to the customer’s password policy), and customer-specific digital certificates are installed (according to the customer’s PKI policy)
- A virus/malware protection solution is installed and running on all systems where it is considered relevant and supported by the systems

Provided that these preconditions are met, the OBSO encourages customers to share the results of such security assessments with OBSO.

Although similar assessments are already conducted during the development and test phases of all new products or product versions, no assessment can be exhaustive enough to serve as a single source to determine the security status of a system.

Instead of implementing customer-specific mitigations, any vulnerability reported by any customer helps to solve the issue in the affected Atos Unify product(s) in a sustainable way. Therefore, every customer will benefit from the solution of the findings.

Customers are advised to provide security assessment reports via their established support channel. The report should only include findings that are suspect of being a “product security vulnerability” according to the definition in chapter 3.1.

Before reports submitted by a customer are processed further in the OBSO, they are anonymized appropriately to ensure that any existing non-disclosure agreements are not violated.

### 4.3 Feedback to Security Advisories

Any feedback regarding ambiguous description or errors contained in Security Advisories is welcome. Please contact your Service or Sales representative at Atos for clarification, consolidation and appropriate forwarding.

Note: The OBSO cannot answer questions regarding the retrieval and the installation of associated product patches or fix releases mentioned in Security Advisories. Please follow the standard maintenance processes according to your individual service contract.

### 4.4 Contact Details

The OBSO can be contacted by sending an e-mail to: [obso@atos.net](mailto:obso@atos.net)

In case of confidential or sensitive information, please use S/MIME by requesting a signed unencrypted mail first, so you have our public key.
5 References

[1] Atos Unify Product Lifecycle Policy

   https://www.unify.com/security/advisories

[3] CVSS (Common Vulnerability Scoring System) V3.0
   https://www.first.org/cvss

   https://benchmarks.cisecurity.org