

Independent service auditor's assurance report on the
description of controls, their design and operating
effectiveness regarding development and
operations of the service Hero Flows
for the period 01-09-2018 to 31-08-2019

ISAE 3402-II

HeroBase A/S

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Section 1: HeroBase A/S' statement

This description has been prepared for customers who have made use of HeroBase A/S' service Hero Flows, and for their auditors who have a sufficient understanding to consider the description along with other information, including information about controls operated by customers themselves, when assessing the risks of material misstatements of customers' financial statements.

HeroBase A/S confirms that:

- (a) The accompanying description in Section 2 fairly presents HeroBase A/S' service Hero Flows and related to customer transactions processed throughout the period 01-09-2018 to 31-08-2019. The criteria for this statement were that the included description:
- (i) Presents how the system was designed and implemented, including:
 - The type of services provided, when relevant
 - The procedures, within both information technology and manual systems, by which transactions are initiated, recorded, processed, corrected as necessary, and transferred to the reports presented to the customers
 - Relevant control objectives and controls designed to achieve these objectives
 - Controls that we assumed, in the design of the system, would be implemented by user entities, and which, if necessary to achieve control objectives stated in the accompanying description, are identified in the description along with the specific control objectives that cannot be achieved by ourselves alone
 - Other aspects of our control environment, risk assessment process, information system and communication, control activities and monitoring controls that were considered relevant to processing and reporting customer transactions.
 - (ii) Provides relevant details of changes in the service organisation's system throughout the period 01-09-2018 to 31-08-2019
 - (iii) Does not omit or distort information relevant to the scope of the described system, while acknowledging that the description is prepared to meet the common needs of a broad range of customers and their auditors and may not, therefore, include every aspect of the system that each individual customer may consider important to their particular environment
- (b) The controls related to the control objectives stated in the accompanying description were suitably designed and operated effectively throughout the period 01-09-2018 to 31-08-2019. The criteria used in making this statement were that:
- (i) The risks that threatened achievement of the control objectives stated in the description were identified
 - (ii) The identified controls would, if operated as described, provide reasonable assurance that those risks did not prevent the stated control objectives from being achieved
 - (iii) The controls were consistently applied as designed, including that manual controls were applied by persons who have the appropriate competence and authority, throughout the period 01-09-2018 to 31-08-2019

Søborg, 8 November 2019

HeroBase A/S

Casper Langhoff
CEO


Kenny Andreassen
CTO & CIO

Section 2: HeroBase A/S' description of development and operations of the software Hero Flows as well as internal controls

Introduction

The purpose of this description is to supply information to HeroBase's customers and their stakeholders (including auditors) regarding the requirements in the International Standard for Assurance Engagements on controls at a service organisation, ISAE 3402.

Additionally, the purpose of this description is to provide information on our information security code of practice which is applicable for our delivery of the product and service Hero Flows to our customers.

The description comprises the control areas and controls regarding Hero Flows, which cover the majority of our customers and are based on our standard delivery. Individual customer relations are not included in this description.

HeroBase and our software Hero Flows

HeroBase is a Danish IT company based in Søborg. We develop, host, and supply software in the form of a SaaS solution to contact centres. One of our core products is supplying the software Hero Flows, which is supplied as a SaaS-solution, which means it is hosted in our own data centres and is based on a flexible and scalable subscription-based model.

Hero Flows, which this assurance report concerns, is one of the largest products in our palette of solutions collected under the Hero brand. Other solutions include e.g. the in- and outbound calling platform Hero Outbound. Hero is chosen as the umbrella term, as we with our solutions want to appeal directly to the end users of our software; when it comes to Hero Flows, this for the most part means users and employees in contact centres and internal backoffice departments. By supplying a fast, intuitive, efficient, and personal platform, we strive to be the preferred choice for the "everyday heroes", which the users and employees in the contact centres are dubbed internally in HeroBase.

We create the foundation for the most efficient contact centre

The name Hero Flows has been chosen for our platform which can be characterized as a broad and multi-functional marketing automation solution. By defining "segments" – see them as dynamic search lists – the platform enables selecting parts of your database consisting of customers and/or potential customers, and using these data groups in digital and automated communication flows or workflows. These flows or workflows are called "automations", and effectively allows you to define step by step data journeys, where persons or businesses are targeted with communication according to the permissions you own; while being able to respond individually to the cross channel communication, and the platform acting on their responses and updates. Automations can combine individual activities altogether consisting of cross channel communication (e-mails, SMS, calls, direct mails etc.), system integrations, webhooks, website tracking, SoMe integrations, macros and much more.

While especially strong when used together with Hero Outbound, Hero Flows can - even without products from the remaining palette of Hero solutions – facilitate manual workflows transformed into automated digital processes, while updating, processing and transferring data in real time, while storing data for as long as needed – effectively for as long as you need it (according to your legal needs and relevant data protection legislation, e.g. GDPR) or practically only during runtime.

A central system among other business systems

Specifically regarding integrations, Hero Flows offers a number of possibilities for integration with other solutions when it comes to data in and out of the platform; activity creation; documentation of activities etc. Hero Flows has a well-developed API, which customers can make use of at no additional cost. This SOAP and REST-API allows access to the customer's Hero Flows data, and allows retrieving, updating, and deleting logical entities. If the customer to a wider extent wants data pushed from Hero Flows to external systems, instead of pulling data from our API, the platform has built-in "triggers" – a kind of webhooks – where rules can be setup to perform certain actions when certain things occur in the system. Actions include, among other things, calls to external SOAP- or REST-APIs, whereby you can integrate Hero Flows with all other systems without writing a single line of code – as long as you have an API that can be called from Hero's web servers (a limited IP range) with either XML or JSON-objects.

The above is a general description of Hero Flows and a short description of some of the tools that the platform makes available. Regarding the customers on Hero Flows, HeroBase wants to create a long-term customer relation, where the customer over time along with its customer experience manager starts using more and more parts of the platform, and where Hero Flows is integrated to other key systems in the customer's business. We believe that this is possible through a technically strong and stable platform, where security and performance are given pride of place, with an engaged technical and customer-focused team behind this.

Technical setup and placement

Hero Flows is a web application based on .NET (the primary language is C#) and with a front end based on e.g. JavaScript and MVC. The database technology is MSSQL, and hosting is via the Danish data centres GlobalConnect (Taastrup) and InterXion (Ballerup) as well as AWS' (Amazon Web Services) Frankfurt and Dublin locations. The only AWS locations we have chosen services in, and where data thereby is located in, are AWS' Dublin site in Ireland and AWS' site in Frankfurt, and thereby no data in Hero Flows leaves the EU. Our infrastructure and architecture are designed in such a way that there is redundant failover equipment for everything from firewalls and switches to database and web servers. Most of the equipment is also placed in both data centres, which means that one location can resume operations, if another location is impacted by reduced access or other problematic circumstances, internal as well as external.

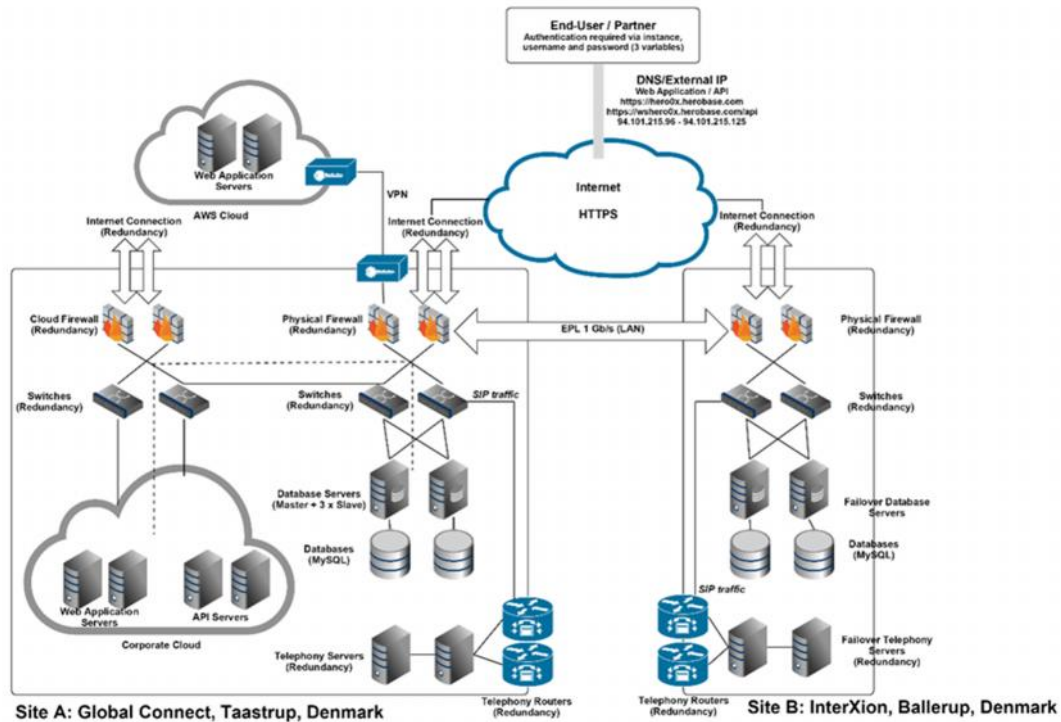


Fig. 1: The Hero Flows platform, general infrastructure as at mid-2019.

We believe that by appealing to the everyday heroes by designing complete solutions for their workplaces, and by supplying solutions which turns contact centres into competitive and efficient companies by optimising working time and the profitability of the centres' tasks, simultaneously with our adjustment of the platform to new, external requirements such as new requirements for payment solutions, contract documentation, GDPR etc. We believe that we have Northern Europe's best software for the industry, and we have international growth objectives based on a healthy and solid home market, where the close daily contact and long-term customer relation are in focus!

Organisation and responsibility

HeroBase employs 40 persons in Denmark, Sweden, Ukraine, Spain, and Lithuania. About half the employees are placed in Denmark and have their daily workplace at the office in Søborg.

The management consists of an ultimately responsible CEO, and below him a CTO with all technical responsibility; a CXO responsible for customer contact, customer relations, and support; and a CSO responsible for sales. In addition, a staff function with CFO as well as administration and HR.

The IT department, led by HeroBase's CTO, consists primarily of developers in a "devops" constellation, where two persons are dedicated to operations, optimising servers and infrastructure, monitoring and handling operational issues, but where all have operations as their first priority in case of technical issues on the platform. It is an objective that actual development, understood as improving existing features and developing new ones, constitutes 70 % of the department's time. The developers are organised in frontend and backend expertise, with a chief architect who makes the general decisions on language, technology, and new frameworks on the basis of a thorough analysis and in cooperation with HeroBase's CTO. In addition, a network administrator is responsible for network and telephony, whereas a project manager and tester has a close cooperation with HeroBase's other departments.

Management has the overall responsibility for IT security and that the company's general IT security policy is observed.

Next to the daily organisation based on function, a security organisation has been organised with an information security committee comprising key employees from various parts of HeroBase, including management, and an information security coordinator who has the daily, operational responsibility for a number of tasks defined in HeroBase's information security code of practise. The information security coordinator is additionally responsible for all employees being aware of the information security manual, including rules and procedures, helps them to access and understand it, and acting on and observing the rules. In conclusion, the responsibility for a variety of matters related to the business systems that support the daily work with supplying the product and service Hero Flows is delegated to the system owners.

Risk management in HeroBase A/S

Risk management in HeroBase A/S is done for all areas connected with delivering the product and service Hero Flows, and which thereby may have financial consequences for our customers. Risk analysis, assessment, and management are based on ISO 27005, and are based on impact analyses and vulnerability analyses at service level. Service is understood as business systems supporting the delivery of Hero Flows as well as Hero Flows in itself as a customer system.

The business in HeroBase answers the questions in the impact analysis, while the IT department in HeroBase performs the vulnerability analyses. Vulnerability analyses are reported at service level, but are based on assets, which are the physical and virtual sub-elements that altogether constitute the platforms or business systems. For instance, the service Hero Flows has a number of dependent assets such as firewalls, switches, web application servers, database servers etc. When reporting takes place at service level, it is also obvious that it is the "lowest common denominator" that defines e.g. maximum possible downtime. If a database server always can be taken over by a failover partner after boot and DNS change on five minutes, but if it in the utmost theory may take 15 minutes before a physical firewall will have been replaced by a booted and configuration loaded redundant partner, it is obvious that it is these 15 minutes that will define the possible downtime.

Risk analyses are conducted as consequence and vulnerability analyses at least annually, after which the collected security overview is brought up for the information security committee and finally HeroBase's management, for the definition of further actions.

Generally on our control objectives, including rules and procedures as well as implemented controls

The most important thing in the supply of the product and service Hero Flows is a stable and secure platform. It is a declared and management embedded promise that we would rather spend twice the time on solving a development task or another technical task than what was strictly necessary to solve the task, in order to ensure security and stability when we release updates to our customers.

To ensure that the supply chain can function, and that HeroBase at the same time can function as a competitive business, including achieving scalability over time, working procedures and processes connected with the supply of the product and service Hero Flows are based on our information security code of practice, on top of which are defined procedures and controls with associated contingency plans etc.

Above all is our top-level information security policy, which is signed by HeroBase's CEO and which sets the framework for the information security work. This is valid for all employees and close cooperative partners (such as consultants).

The framework for the information security code of practice is ISO 27001, and the code of practice is classified according to the following control areas:

-) Information security management and security policy
-) Organisation of information security
-) Human resource security
-) Asset management
-) Access control
-) Cryptography
-) Physical and environmental security
-) Operations security
-) Communications security
-) System acquisition, development and maintenance
-) Supplier relationships
-) Information security incident management
-) Information security aspects of business continuity management
-) Compliance

In addition, we have selected a number of procedures and policies within the framework of data security and GDPR, and we take our responsibility as data processor for a number of the country's largest companies extremely seriously. Up to the implementation of GDPR we have expanded our platform with a number of features that make it easier for our customers as data controllers to comply with the requirements imposed by e.g. GDPR. We would like to be considered co-data controllers to a higher extent than solely as data processors, and we gladly express this in various connections. As a data processor we have furthermore ensured that we have processor agreements with all our customers on Hero Flows who in this constellation are data controllers.

Information security management and security policy

HeroBase's general information security policy is prepared for the purpose of ensuring a continuous embedding of working methods, principles, and routines that comply with the determined security level.

The management approves the policy, which is signed by our CEO, and management is responsible for the policy being observed.

The information security policy must be observed in all regards and aims to ensure a secure and stable delivery of the product and service Hero Flows, including compliance with relevant legislation, such that all significant risks of breakdowns, data theft, and data breaches are reduced.

The policy is reviewed and approved annually. The information security coordinator is the management's and information security committee's "auxiliary arm" in the daily embedding of the policy, and this ensures communication on an ongoing basis to all relevant parties. Additionally, all employees annually sign that they have read and comply with the policy and the associated information security code of practise.

Organisation of information security

Segregation of duties

We have a clear and well-defined organisation with segregation of duties, which entails that dependency on key persons is reduced as much as possible. In addition, segregation of duties has been introduced to areas where there is a risk of the occurrence of misuse of the company's data and information.

Contact with authorities

We have defined responsibility for contact with public authorities regarding topics pertaining to the area of information security.

Project management

We have defined the responsibility for HeroBase's project management model managing information security in all phases in an adequate manner, such that projects do not impact HeroBase's overall risk exposure to a negative degree. Information security is considered in all projects, regardless of their size.

Equipment and teleworking

We have a procedure for the use of mobile devices and home workplaces/remote workplaces. Minimum requirements have been defined for the protection of all devices, as well as access to business systems and data. All devices must be protected by antivirus and firewall. A number of system accesses to HeroBase's business systems require VPN access. These are issued and installed by HeroBase's IT department (approval by HeroBase's CTO, issuing and configuration of an employer in the IT department). VPN can be installed on PCs supplied and owned by HeroBase, but never on privately owned PCs.

Human resource security

We have defined a number of procedures that ensure security before, during and, if applicable, after employment.

Procedures concerning processes before a potential employment ensure that potential employees are screened and that relevant matters are checked within the framework of current legislation.

All employees must adhere to a number of conditions regarding confidentiality regarding their own, HeroBase's, and customers' matters. This is described in each employee's employment contract.

During employment it is ensured in cooperation between the employee, day-to-day leader, and the information security coordinator that the employee is kept up-to-date with, and complies with aspects regarding, information security.

We have procedures that ensure that employees at termination of employment cannot cause damage to HeroBase or the system Hero Flows, by means of instantly removing rights to business systems and checking this.

In addition, a number of sanctions have been defined, in case information security is breached or disregarded.

Asset management

All assets are defined with ownership, criticality, and technical dependencies such as services that are dependent on certain assets. Servers, systems, network etc. are documented and available for relevant technical personnel. At the introduction of new equipment and new systems, or at changes to architecture and infrastructure, relevant documentation is updated to ensure that this is always up-to-date.

The acceptable use of systems for employees has been defined, which i.a. includes guidelines for accessing, using, and exporting data. Data is considered categorised according to GDPR's categories for this purpose, and special procedures are applicable for certain types of data.

We have procedures concerning the management of portable devices, disposal of devices, as well as transport of portable, data-carrying devices, as well as for the classification and labelling of data. This

means, for one thing, but is not limited to, that data solely must be stored in systems and on physical and virtual servers labelled and specified for the purpose. Customer data must not in principle be present anywhere else, including locally, on USB sticks, on other disks (flash drives), and similar. An exception to this is if a customer has requested in writing to be handed over data, or if it is necessary to transport data between two servers, and the transmission cannot occur via network.

If data is stored temporarily on such USB sticks, drives and similar, data must to the widest extent possible be anonymised or pseudonymised, and the physical device (including folders on it) must be password protected. As a rule, these devices must never be sent by regular mail to customers but must be transported by HeroBase's employees or picked up by the customer.

When physical servers are decommissioned, and data on hard disks no longer needs to be present on the drives in question, these disks must either a) be formatted in such a way that restore of data no longer is possible, b) be physically destroyed and the disks disposed of by employees in HeroBase's IT department, or c) both.

Access management

We have a string of procedures that ensure that access control and the allocation of rights occur in compliance with the established security level.

Only employees with a work-related need for having access to systems and data are granted access to the concerned business systems and associated data.

The heads of department are responsible for access rights being granted on the basis of a work-related need and in consideration of regulatory and contractual obligations.

We have a number of controls that ensure that this occurs on an ongoing basis, and that all access corresponds to the work-related needs in each function and for each employee.

We have defined a string of requirements for the protection of all devices (PCs, mobile phones, tablets) as well as passwords in all business systems. Employees are trained and checked continually within these areas.

We have a number of procedures that ensure that only a group of privileged personnel has access to system administrator tools, central servers (e.g. domain controller), source code etc.

Production servers and other servers containing production data and customer data are only present in HeroBase's data centres and not at any office locations. Only specially trusted employees with a work-related need have access to the data centres. These accesses are assessed and inspected regularly.

Cryptography

We have procedures for the use of cryptography, including the generation and management of encryption keys and certificates.

This means, i.a., that Hero Flows must have a valid SSL certificate, which HeroBase verifies, such that data exchange only occurs in a secure and encrypted manner (through HTTPS). SSL-certificates are managed solely by the IT department, where the application architect and network administrator are responsible for SSL certificates. No certificates may be acquired or issued by bypassing these.

This requirement concerns access to Hero Flows through the user interface and through API alike.

Physical and environmental security

Servers are only placed in data centres provided by suppliers who have been issued, and annually can show, assurance reports at the level of ISAE 3402.

HeroBase's office premises are subject to a number of procedures that secure the office as well as material and units stored at the office, regardless of servers only being placed in data centres.

This entails, i.a., procedures aimed at employees describing security measures for offices, common areas, and similar areas.

Operations security

Operating procedures and monitoring

We have operating procedures for the IT department's most significant duties, and these procedures are subject to versioning and change management.

We have defined the responsibility for ensuring that an assessment of the capacity requirements for critical IT systems is performed regularly.

Due to our size we cannot have a complete overlap on all functions, but cf. previous description we aim, by virtue of segregation of duties and thorough as well as continuous documentation and knowledge sharing, to avoid dependence on individuals. The IT department, led by HeroBase's CTO, consists primarily of developers in a "devops" constellation, where two persons are dedicated to operations, optimising servers and infrastructure, monitoring and handling operational issues, but where all have operations as the first priority in case of technical issues on the platform or information security issues.

All instances of Hero Flows are monitored by means of monitoring tools. Thereby we monitor, among other things, access to servers, CPU/memory/disk I&O usage, similar for database servers, lag (in milliseconds) between master and slave databases, heavy SQL queries made by applications or directly by a client, and much more.

Critical levels and values are defined for all these monitoring areas. Alarms must trigger when these values are reached and must be sent to key employees either via email (for less critical alerts) or SMS (critical alerts).

Historical logs and events are regularly reviewed in a structured manner to perform improvements and optimisation.

We have procedures for backup besides continuous data replication, and the usability of backups for restore is regularly checked.

Development of Hero Flows, management, and quality assurance

The development of Hero Flows, including release of changes, occurs according to HeroBase's formalised and embedded development model.

The development process is HeroBase's own method derived from an agile approach to development, SCRUM, and RUP. The development takes place in sprints, but not of an eternal, specified duration, as sprints are defined according to prioritised tasks in backlog.

On the basis of the classic project triangle consisting of time, scope, and resources, time is the factor that defines the objective for master releases with a release at least every 4 weeks, but we aim to make a master release every 3 weeks. Quality and marking tests as complete, however, are always to be considered

more important than the desire of making more frequent releases, as a zero-bug tolerance when new code is deployed for production overrides the desire of having new functions/features released quickly to customers.

Next to master releases, hot fix releases are performed with corrections of distinct errors and significant inexpediencies. Significant errors and disclosed security weaknesses with the priority of 1 or 2 (cf. HeroBase’s operations procedure) must always be handled as quickly as possible, and no later than within 3 working days.

Development occurs in development environments where code is branched from the main branch/“default”. These development branches are connected with the staging database, where test data is found. Test data and production data are thus completely segregated, and customers’ data must not be copied from master to staging without approval from HeroBase’s CTO. If this permission is granted, it can and will only comprise configuration data in order to test and develop up against true, complex data in order to ensure the quality of the development, but it must and can never comprise data on the customer’s prospects, employees or similar which are personally identifiable and can be categorised in accordance with GDPR’s articles 6, 9, and 10.

Beneath please find in detail and chronological order how all cases are processed from creation, prioritisation, and approval, up through HeroBase’s development flow.

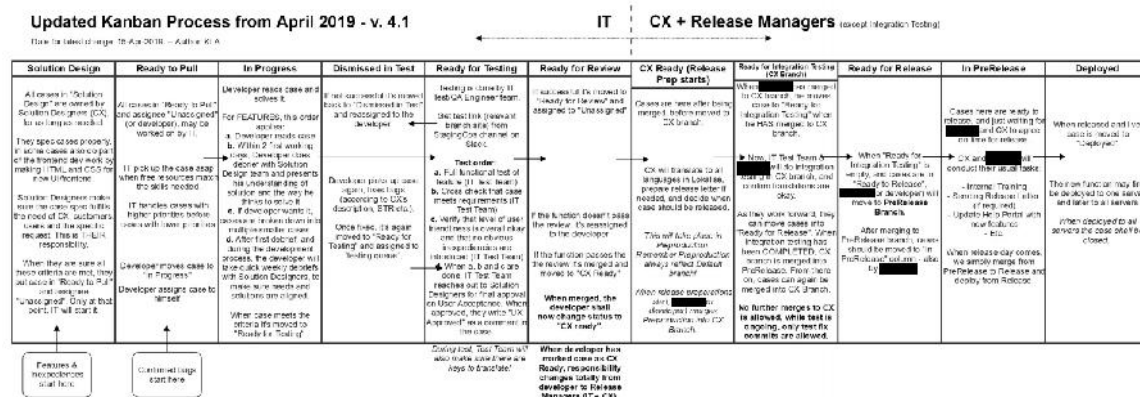


Fig. 2: Process and development model for HeroBase

HeroBase’s release manager is the day-to-day responsible person for the process, and the process is evaluated every other week on a meeting between the release manager and HeroBase’s CTO.

Logging

We have procedures concerning the scope, processing, protection, and check of logging on various system types.

All logins and significant user actions in Hero Flows are monitored and logged. The logging of significant user actions concerns i.a. data export.

All changes to data are registered.

These registrations are also available for customer administrators through visible logs in the user interface.

The logging level also comprises employees at HeroBase, whereby it is checked that these do not access customer data without a work-related need for this. This is checked and tested in a detailed manner on the basis of spot checks.

Communications security

We have procedures for network management and monitoring, including maintenance of network and network equipment.

Traffic on all connections and interfaces are monitored in relation to data volume over periods of time. Alarms have been set up that are triggered and sent to technical personnel in case of abnormalities (traffic spikes, significant delays between master databases and slave databases, and much else).

This ensures ongoing, correct capacity management as well as a precaution against misuse.

Exchange of information solely occurs by means of secure connections. If this occurs via the public Internet, data is encrypted (in principle by means of HTTPS). Systems that can communicate on internal connections (on internal IP address behind firewall – and between data centres via fibre connection, through which servers on various locations also can reach each other on internal IP address) use this method for data exchange via LAN.

Systems acquisition, development and maintenance

We have procedures that ensure secure change management in business supporting systems. The procedures prescribe i.a. that change logs are obtained and evaluated, and that changes are tested before they are released.

As all significant internal work processes are documented, the process documentation is updated where necessary, in connection with changes.

Please note that this section and the procedures referred to herein concern maintenance and changes in business supporting systems, not the solution Hero Flows itself. Procedures and principles for changes in Hero Flows are described in a previous, separate section.

Supplier relationships

In all cooperation agreements with suppliers we have defined security requirements and minimum requirements for the services provided to us by the supplier.

We have ensured that the matters we base our agreement on regarding the use of the product and service Hero Flows in relation to customers are in accordance with our requirements to our suppliers.

We regularly, and at least annually, review the cooperation agreements, just as we obtain assurance reports for the entered agreements.

We have defined a responsibility for quarterly reviewing reports from the external service providers for operational equipment regarding events, issues, errors, crashes, and logging.

Information security incident and event management

The information security committee has defined procedures for information security incidents and events, which are embedded in HeroBase and which the management is responsible for being observed.

We define information security incidents as:

-) The detection of successful external and unwanted intrusion in systems
-) Finding customer data (hosted in the master database for Hero Flows) online, where there is an obvious or strong suspicion that the publication of data has not occurred with the customer's approval and intent

-) Finding data on current or former employees in HeroBase online, where publication of data has occurred without HeroBase's involvement or intent
-) Finding other confidential business data online (according to the same directions) defined as customer contracts, revenue, or information which is classified as secret according to further definition by the information security committee

We define information security events as:

-) Events that, if they had not been discovered, could have led to security incidents
-) Situations where unintended data or information by accident (due to human error) has been sent to other recipients than the intended, and that it is assessed that this may entail damage or serious consequences for HeroBase

Procedures have been defined for both, which describe for employees and managers how they should act in case of incidents and events, including (but not limited to) gathering evidence and contact with authorities, if necessary.

All employees are aware of the instructions and have trained them.

Information security aspects of business continuity management

We have defined the responsibility for preparing emergency plans, contingency plans, and restore plans.

We have established adequate redundancy to meet the requirements for availability and the guarantees for uptime that we have agreed in contracts with our customers.

All technical employees have trained the plans.

Plans and procedures are regularly reviewed and after each operational issue where human action has been necessary to re-establish operations on parts of the platform.

Compliance

We regularly check that rules and procedures are observed, followed, and documented.

We ensure that we act in accordance with applicable legislation and furthermore that we adhere to the requirements posed to documentation by national legislation.

We ensure that personal data is protected and processed in accordance with the Data Protection Act and GDPR.

For years, we have used ISO 27001 as the framework of reference for information security in HeroBase and regarding the development and operations of Hero Flows. This is our first ISAE 3402 assurance report for the delivery of the product and service Hero Flows. It has been embedded in the management that compliance with rules and procedures in our information security code of practice, including controls connected with rules and procedures, must be formalised, documented, and subject to annual audit by an independent external IT auditor, which is why we also in future will prepare ISAE 3402 (type II) assurance reports.

Complementary controls

Regarding our customers, HeroBase is responsible for delivering the services and the operations described in the contract concerning Hero Flows between the customer and HeroBase.

Matters not comprised by the contract are the customer's own responsibility.

Creation of users, protection of user information, and secure login procedures are the responsibility of the customer. The customer can enable MFA login on users in Hero Flows. HeroBase recommends our customers to do this to the extent it is possible for the customer, in order to protect the customer's data and activities in Hero Flows.

Regarding data uploaded to Hero Flows by the customer, it is a significant division of responsibility that the customer is the data controller, and HeroBase is the data processor. Thus, HeroBase only acts according to instructions from the customer. In the contract or in the processor agreement that the customer provides HeroBase, the customer gives an indication to HeroBase of what types/categories of data that the customer intends to upload to and process in Hero Flows. A processor agreement must be established between HeroBase and the customer.

Regarding GDPR, HeroBase provides a string of functions on the platform Hero Flows that enable the customer to comply with GDPR's requirements of data controllers. These functions include (but are not limited to) the possibility of exporting full data logs, the possibility of correcting data, the possibility of deleting data and much more.

It is the customer's responsibility to have defined and embedded a procedure at the customer that ensures compliance with GDPR by i.a. complying with the requirements of response time regarding inquiries from private individuals/data subjects. HeroBase provides functions through the tool Hero Flows, but cannot be held responsible for the customer's definition, embedding, and observation of procedures that are to ensure the customer's compliance.

Section 3: Independent service auditor's assurance report on the description of controls, their design and functionality

To the management of HeroBase A/S, their customers and their auditors.

Scope

We have been engaged to report on HeroBase A/S' description, presented in Section 2. The description, as confirmed by the management of HeroBase A/S in section 1, covers HeroBase A/S' service Hero Flows in the period 01-09-2018 to 31-08-2019 as well as the design and operation of the controls related to the control objectives stated in the description.

Our opinion is issued with reasonable assurance.

HeroBase A/S' responsibility

HeroBase A/S is responsible for preparing the description (section 2) and the related statement (section 1) including the completeness, accuracy and method of presentation of the description and statement. Additionally, HeroBase A/S is responsible for providing the services covered by the description, and for the design, implementation and effectiveness of operating controls for achieving the stated control objectives.

REVI-IT A/S' independence and quality control

We have complied with the independence and other ethical requirements of the Code of Ethics for Professional Accountants issued by the International Ethics Standards Board for Accountants, which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behaviour.

The firm applies International Standard on Quality Control 1 and accordingly maintains a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

REVI-IT A/S' responsibility

Based on our procedures, our responsibility is to express an opinion on HeroBase A/S' description (section 2) as well as on the design and functionality of the controls related to the controls objectives stated in this description. We conducted our engagement in accordance with ISAE 3402, "Assurance Reports on Controls at a Service Organisation", issued by IAASB. This standard requires that we plan and perform our procedures to obtain reasonable assurance about whether, in all material respects, the description is fairly presented and the controls are suitably designed and operating effectively.

An assurance engagement to report on the description, design and operating effectiveness of controls at a service organisation involves performing procedures to obtain evidence about the disclosures in the service organisation's description of its system, and the design and operating effectiveness of controls. The procedures selected depend on the service auditor's judgment, including the assessment of the risks that the description is not fairly presented, and that controls are not suitably designed or operating effectively. Our procedures included testing the operating effectiveness of those controls that we consider necessary to provide reasonable assurance that the control objectives stated in the description were achieved. An assurance engagement of this type also includes evaluating the overall presentation of the description, the suita-

bility of the objectives stated therein and the suitability of the criteria specified by the service organisation, described in section 2.

We believe that the evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Limitations of controls at a service organisation

HeroBase A/S' description in section 2 is prepared to meet the common needs of a broad range of customers and their auditors and may not, therefore, include every aspect of the systems that each individual customer may consider important in its own particular environment. Also, because of their nature, controls at a service organisation may not prevent or detect all errors or omissions in processing or reporting transactions. Also, the projection of any evaluation of effectiveness to future periods is subject to the risk that controls at a service organisation may become inadequate or fail.

Opinion

Our opinion has been formed on the basis of the matters outlined in this report. The criteria we used in forming our opinion were those described in HeroBase A/S' description in Section 2 and on the basis of this, it is our opinion that:

- (a) the description of the controls, as they were designed and implemented throughout the period 01-09-2018 to 31-08-2019, is fair in all material respects
- (b) the controls related to the control objectives stated in the description were suitably designed throughout the period 01-09-2018 to 31-08-2019 in all material respects
- (c) the controls tested, which were the controls necessary for providing reasonable assurance that the control objectives in the description were achieved in all material respects, have operated effectively throughout the period 01-09-2018 to 31-08-2019.

Description of tests of controls

The specific controls tested, and the nature, timing and results of these tests are listed in the subsequent main section (Section 4).

Intended users and purpose

This assurance report is intended only for customers who have used HeroBase A/S' service Hero Flows and the auditors of these customers, who have a sufficient understanding to consider the description along with other information, including information about controls operated by customers themselves. This information serves to obtain an understanding of the customers' information systems, which are relevant for the financial statements.

Copenhagen, 8 November 2019

REVI-IT A/S
State authorised public accounting firm



Henrik Paaske
State Authorised Public Accountant



Martin Brogaard Nielsen
IT Auditor, CISA, CIPP/E, CRISC, CEO

Section 4: Control objectives, controls, tests, and related test controls

The following overview is provided to facilitate an understanding of the effectiveness of the controls implemented by HeroBase A/S. Our testing of functionality comprised the controls that we considered necessary to provide reasonable assurance that the control objectives stated in the description were achieved during the period 01-09-2018 to 31-08-2019.

Thus, we have not necessarily tested all the controls mentioned by HeroBase A/S in the description in Section 2.

Moreover, our statement does not apply to any controls performed at HeroBase A/S' customers, as the customers' own auditors should perform this review and assessment.

We performed our tests of controls at HeroBase A/S by taking the following actions:

Method	General description
Inquiry	Interview, i.e. inquiry with selected personnel at the company regarding controls
Observation	Observing how controls are performed
Inspection	Review and evaluation of policies, procedures, and documentation concerning the performance of controls
Re-performing control procedures	We have re-performed – or have observed the re-performance of – controls in order to verify that the control is working as assumed

A description and the results of our tests based on the tested controls appear from the tables on the following pages. To the extent that we have identified significant weaknesses in the control environment or deviations therefrom, we have specified this.

Risk assessment and management

Risk assessment

Control objective: To ensure that the company periodically performs an analysis and assessment of the IT risk profile.

No.	HeroBase A/S' control	REVI-IT's test	Test results
4.1	<p>Risk management in HeroBase A/S is done for all areas connected with delivering the product and service Hero Flows, and which thereby may have financial consequences for our customers. Risk analysis, assessment, and management are based on ISO 27005, and are based on impact analyses and vulnerability analyses at service level.</p> <p>Risk analyses are conducted as consequence and vulnerability analyses at least annually, after which the collected security overview is brought up for the information security committee and finally HeroBase's management, for the definition of further actions.</p>	<p>We have inquired about the preparation of a risk analysis, and we have inspected the prepared risk analysis.</p> <p>We have inquired about periodic evaluation of the IT risk analysis, and we have inspected documentation for the IT risk analysis having been reviewed and approved by the management during the audit period.</p>	No significant deviations noted.

Information security policies

Management direction for information security

Control objective: To provide management direction and support for information security in accordance with business requirements and relevant laws and regulations.

No.	HeroBase A/S' control	REVI-IT's test	Test results
5.1	<p>Above all is our top-level information security policy, which is signed by HeroBase's CEO and which sets the framework for the information security work.</p> <p>HeroBase's general information security policy is prepared for the purpose of ensuring a continuous embedding of working methods, principles, and routines that comply with the determined security level.</p> <p>The management approves the policy, which is signed by our CEO, and management is responsible for the policy being observed.</p> <p>The policy is reviewed and approved annually.</p>	<p>We have inquired about the preparation of an information security policy and we have inspected the document.</p> <p>We have inquired about periodic review of the information security policy and we have inspected that the document has been reviewed during the audit period.</p> <p>We have inquired about documentation for the management's approval of the information security policy, and we have inspected the documentation for management approval.</p>	No significant deviations noted.

Organisation of information security

Internal organisation

Control objective: To establish a management framework to initiate and control the implementation and operation of information security within the organisation.

No.	HeroBase A/S' control	REVI-IT's test	Test results
6.1	<p>We have a clear and well-defined organisation with segregation of duties, which entails that dependency on key persons is reduced as much as possible. In addition, segregation of duties has been introduced to areas where there is a risk of the occurrence of misuse of the company's data and information.</p> <p>We have defined responsibility for contact with public authorities regarding topics pertaining to the area of information security.</p> <p>We have defined the responsibility for HeroBase's project management model managing information security in all phases in an adequate manner, such that projects do not impact HeroBase's overall risk exposure to a negative degree. Information security is considered in all projects, regardless of their size.</p>	<p>We have inquired about documentation for the allocation of responsibility for information security.</p> <p>We have inquired about documentation for the segregation of duties.</p> <p>We have inquired about guidelines for contact with authorities.</p> <p>We have inquired about documentation for contact with interest groups.</p> <p>We have inquired about documentation that supports that information security is taken into account when managing projects.</p>	No significant deviations noted.

Mobile devices and teleworking

Control objective: To ensure the security of teleworking and use of mobile devices.

No.	HeroBase A/S' control	REVI-IT's test	Test results
6.2	<p>We have a procedure for the use of mobile devices and home workplaces/remote workplaces. Minimum requirements have been defined for the protection of all devices, as well as access to business systems and data. All devices must be protected by antivirus and firewall. A number of system accesses to HeroBase's business systems require VPN access.</p> <p>VPN can be installed on PCs supplied and owned by HeroBase, but never on privately owned PCs.</p>	<p>We have inquired about documentation for mobile device management.</p> <p>We have inquired about the security when using remote workplaces, and we have inspected the guidelines.</p>	No significant deviations noted.

Human resource security

Prior to employment

Control objective: To ensure that employees and contractors understand their responsibilities and are suitable for the roles for which they are considered.

No.	HeroBase A/S' control	REVI-IT's test	Test results
7.1	We have defined a number of procedures that ensure security before, during and, if applicable, after employment. Procedures concerning processes before a potential employment ensure that potential employees are screened and that relevant matters are checked within the framework of current legislation.	<p>We have inquired about a procedure for hiring new employees and we have inspected the procedure.</p> <p>Additionally, we have in spot checks inquired about documentation for the procedure having been followed.</p> <p>We have inquired about the formalisation of terms and conditions of employment, and we have inspected the contents of standard employment contracts.</p>	No significant deviations noted.

During employment

Control objective: To ensure that employees and contractors are aware of and fulfil their information security responsibilities.

No.	HeroBase A/S' control	REVI-IT's test	Test results
7.2	All employees must adhere to a number of conditions regarding confidentiality regarding their own, HeroBase's, and customers' matters. This is described in each employee's employment contract. During employment it is ensured in cooperation between the employee, day-to-day leader, and the information security coordinator that the employee is kept up-to-date with, and complies with aspects regarding, information security.	<p>We have inquired about management's responsibility for the dissemination of policies and procedures, and we have inspected documentation for the allocation of responsibilities.</p> <p>We have inquired about further training of staff regarding information security.</p> <p>We have inquired about guidelines for sanctioning.</p>	No significant deviations noted.

Termination and change of employment

Control objective: To protect the organisation's interests as part of the process of changing or terminating employment.

No.	HeroBase A/S' control	REVI-IT's test	Test results
7.3	We have procedures that ensure that employees at termination of employment cannot cause damage to HeroBase or the system Hero Flows, by means of instantly removing rights to business systems and checking this. In addition, a number of sanctions have been defined, in case information security is breached or disregarded.	We have inquired about employees' obligations to maintain information security in connection with termination of employment, and we have inspected documentation for the employees' obligations.	No significant deviations noted.

Asset management

Responsibility for assets

Control objective: To identify organisational assets and define appropriate protection responsibilities.

No.	HeroBase A/S' control	REVI-IT's test	Test results
8.1	All assets are defined with ownership, criticality, and technical dependencies such as services that are dependent on certain assets. Servers, systems, network etc. are documented and available for relevant technical personnel. At the introduction of new equipment and new systems, or at changes to architecture and infrastructure, relevant documentation is updated to ensure that this is always up-to-date. The acceptable use of systems for employees has been defined, which i.a. includes guidelines for accessing, using, and exporting data. Data is considered categorised according to GDPR's categories for this purpose, and special procedures are applicable for certain types of data.	<p>We have inquired about asset listings.</p> <p>We have inquired about an inventory of ownership for assets and we have inspected the inventory.</p> <p>We have inquired about guidelines for the use of assets and we have inspected the guidelines.</p> <p>We have inquired about a procedure for securing the return of handed-out assets and we have inspected the procedure.</p>	No significant deviations noted.

Information classification

Control objective: To ensure that the information receives an appropriate level of protection in accordance with its importance to the organisation.

No.	HeroBase A/S' control	REVI-IT's test	Test results
8.2	The acceptable use of systems for employees has been defined, which i.a. includes guidelines for accessing, using, and exporting data. Data is considered categorised according to GDPR's categories for this purpose, and special procedures are applicable for certain types of data.	<p>We have inquired about a policy for data classification and we have inspected the policy.</p> <p>We have inquired about data labelling and we have inspected the guidelines for data labelling.</p> <p>We have inquired about asset management guidelines and we have reviewed the guidelines.</p>	No significant deviations noted.

Media handling

Control objective: To prevent unauthorised disclosure, modification, removal or destruction of information stored on media.

No.	HeroBase A/S' control	REVI-IT's test	Test results
8.3	We have procedures concerning the management of portable devices, disposal of devices, as well as transport of portable, data-carrying devices, as well as for the classification and labelling of data. This means, for one thing, but is not limited to, that data solely must be stored in systems and on physical and virtual servers labelled and specified for the purpose. Customer data must not in principle be present anywhere else, including locally, on USB sticks, on other disks (flash drives), and similar. An exception to this is if a customer has requested in writing to be handed over data, or if it is necessary to transport data between two servers, and the transmission cannot occur via network.	<p>We have inquired about portable media management, and we have inspected documentation for the solution.</p> <p>We have inquired about guidelines for the disposal of media.</p> <p>We have inquired about transport of portable media.</p>	No significant deviations noted.

Access control

Business requirements of access control

Control objective: To limit access to information and information processing facilities.

No.	HeroBase A/S' control	REVI-IT's test	Test results
9.1	We have a string of procedures that ensure that access control and the allocation of rights occur in compliance with the established security level. Only employees with a work-related need for having access to systems and data are granted access to the concerned business systems and associated data.	<p>We have inquired about a procedure for managing access to systems and buildings, and we have inspected the procedure.</p> <p>We have inquired about access to network and network services and we have inspected the solution.</p>	No significant deviations noted.

User access management

Control objective: To ensure authorised user access and to prevent unauthorised access to systems and services.

No.	HeroBase A/S' control	REVI-IT's test	Test results
9.2	The heads of department are responsible for access rights being granted on the basis of a work-related need and in consideration of regulatory and contractual obligations. We have a number of controls that ensure that this occurs on an ongoing basis, and that all access corresponds to the work-related needs in each function and for each employee. We have defined a string of requirements for the protection of all devices (PCs, mobile phones, tablets) as well as passwords in all business systems. Employees are trained and checked continually within these areas. We have a number of procedures that ensure that only a group of privileged personnel has access to system administrator tools, central servers (e.g. domain controller), source code etc.	<p>We have inquired about procedures for creating and de-registrating users and we have inspected the procedures.</p> <p>We have in spot checks inspected documentation for the creation and de-registration of users.</p> <p>We have inquired about the process for rights allocation.</p> <p>We have inquired about monitoring the use of privileged access rights.</p> <p>We have inquired about documents for monitoring the use of confidential passwords.</p> <p>We have inquired about the process for periodic review of users, and we have inspected documentation for recent review.</p> <p>We have inquired about procedures for the revoking of rights.</p>	No significant deviations noted.

User responsibilities

Control objective: To make users accountable for safeguarding their authentication information.

No.	HeroBase A/S' control	REVI-IT's test	Test results
9.3	The heads of department are responsible for access rights being granted on the basis of a work-related need and in consideration of regulatory and contractual obligations. We have a number of controls that ensure that this occurs on an ongoing basis, and that all access corresponds to the work-related needs in each function and for each employee.	We have inquired about guidelines for the use of confidential passwords, and we have inspected the guidelines.	No significant deviations noted.

System and application access control

Control objective: To prevent unauthorised access to systems and applications.

No.	HeroBase A/S' control	REVI-IT's test	Test results
9.4	<p>We have defined a string of requirements for the protection of all devices (PCs, mobile phones, tablets) as well as passwords in all business systems. Employees are trained and checked continually within these areas. We have a number of procedures that ensure that only a group of privileged personnel has access to system administrator tools, central servers (e.g. domain controller), source code etc. Production servers and other servers containing production data and customer data are only present in HeroBase's data centres and not at any office locations. Only specially trusted employees with a work-related need have access to the data centres. These accesses are assessed and inspected regularly.</p>	<p>We have inquired about limitation of access to data, and we have inspected documentation for limitation.</p> <p>We have inquired about procedures for secure login and we have inspected the procedure.</p> <p>We have inquired about password management systems and we have inspected the solution.</p> <p>We have inspected the solution for selected configurations.</p> <p>We have inquired about password policies.</p>	No significant deviations noted.

Cryptography

Cryptographic controls

Control objective: To ensure proper and effective use of cryptography to protect the confidentiality, authenticity and/or integrity of information.

No.	HeroBase A/S' control	REVI-IT's test	Test results
10.1	<p>We have procedures for the use of cryptography, including the generation and management of encryption keys and certificates.</p> <p>This means, i.a., that Hero Flows must have a valid SSL certificate, which HeroBase verifies, such that data exchange only occurs in a secure and encrypted manner (through HTTPS).</p> <p>This requirement concerns access to Hero Flows through the user interface and through API alike.</p>	<p>We have inquired about the use of encryption and we have in spot checks inspected the use of cryptography.</p>	No significant deviations noted.

Physical and environmental security

Secure areas

Control objective: To prevent unauthorised physical access, damage and interference to the organisation's information and information processing facilities.

No.	HeroBase A/S' control	REVI-IT's test	Test results
11.1	<p>Servers are only placed in data centres provided by suppliers who have been issued, and annually can show, assurance reports at the level of ISAE 3402.</p> <p>HeroBase's office premises are subject to a number of procedures that secure the office as well as material and units stored at the office, regardless of servers only being placed in data centres.</p> <p>Production servers and other servers containing production data and customer data are only present in HeroBase's data centres and not at any office locations. Only specially trusted employees with a work-related need have access to the data centres. These accesses are assessed and inspected regularly.</p>	<p>We have inquired about assurance reports from subcontractors regarding physical conditions, and we have inspected the assurance reports for satisfactory physical security.</p> <p>We have inspected the physical conditions of the company's offices in order to check the physical security.</p> <p>We have inquired about documentation showing that appropriate security has been established wherever work is done, and we have in spot checks inspected the allocation of access.</p>	No significant deviations noted.

Equipment

Control objective: To prevent loss, damage, theft or compromise of assets and interruption to the organisation's operations.

No.	HeroBase A/S' control	REVI-IT's test	Test results
11.2	<p>We have procedures concerning the management of portable devices, disposal of devices, as well as transport of portable, data-carrying devices, as well as for the classification and labelling of data. This means, for one thing, but is not limited to, that data solely must be stored in systems and on physical and virtual servers labelled and specified for the purpose.</p> <p>We have defined a string of requirements for the protection of all devices (PCs, mobile phones, tablets). Employees are trained and checked continually within these areas.</p>	<p>We have inquired about the assurance reports from subcontractors regarding physical conditions, and we have inspected the assurance report for satisfactory physical security.</p> <p>We have inspected the subcontractor's assurance report to verify regular maintenance of the equipment.</p> <p>We have inquired about how cables are secured.</p> <p>We have inquired about a policy for equipment disposal.</p> <p>We have inquired about the security of equipment outside the company's premises.</p> <p>We have inspected subcontractor's assurance report.</p> <p>We have inquired about policies for the disposal of data-bearing media.</p> <p>We have inquired about documentation for the security of user equipment left unattended.</p> <p>We have inquired about a clean desk policy.</p>	<p>No significant deviations noted.</p>

Operations security

Operational procedures and responsibilities

Control objective: To ensure correct and secure operation of information processing facilities.

No.	HeroBase A/S' control	REVI-IT's test	Test results
12.1	<p>We have operating procedures for the IT department's most significant duties, and these procedures are subject to versioning and change management.</p> <p>All changes to data are registered.</p> <p>We have defined the responsibility for ensuring that an assessment of the capacity requirements for critical IT systems is performed regularly.</p> <p>Due to our size we cannot have a complete overlap on all functions, but cf. previous description we aim, by virtue of segregation of duties and thorough as well as continuous documentation and knowledge sharing, to avoid dependence on individuals.</p> <p>All instances of Hero Flows are monitored by means of monitoring tools.</p> <p>Thereby we monitor, among other things, access to servers, CPU/memory/disk I&I usage and much more.</p> <p>Critical levels and values are defined for all these monitoring areas.</p>	<p>We have inquired about operational procedures and we have in spot checks inspected the procedures.</p> <p>We have inquired about change management, and we have in spot checks inspected documentation regarding how changes were handled during the period.</p> <p>We have inquired about documentation regarding capacity monitoring, and we have in spot checks inspected documentation for capacity monitoring.</p> <p>We have inquired about the use of a test environment, and we have inspected documentation showing the existence of a test environment.</p>	No significant deviations noted.

Protection from malware

Control objective: To ensure that information and information processing facilities are protected against malware.

No.	HeroBase A/S' control	REVI-IT's test	Test results
12.2	All devices must be protected by antivirus and firewall.	<p>We have inquired about measures against malware.</p> <p>We have inquired about the use of antivirus programs and we have inspected documentation for the application.</p>	No significant deviations noted.

Backup**Control objective: To protect against loss of data.**

No.	HeroBase A/S' control	REVI-IT's test	Test results
12.3	We have procedures for backup besides continuous data replication, and the usability of backups for restore is regularly checked.	<p>We have inquired about logging of user activity and we have in spot checks inspected logging configurations.</p> <p>We have inquired about documentation for the security of log information, and we have inspected the solution.</p> <p>We have inquired about synchronisation up against an adequate time server.</p>	<p>We have observed that the backup retention period is significantly shorter than the interval with which the backup is validated.</p> <p>No further significant deviations noted.</p>

Logging and monitoring**Control objective: To record events and generate evidence.**

No.	HeroBase A/S' control	REVI-IT's test	Test results
12.4	<p>Historical logs and events are regularly reviewed in a structured manner to perform improvements and optimisation.</p> <p>We have procedures concerning the scope, processing, protection, and check of logging on various system types.</p> <p>All logins and significant user actions in Hero Flows are monitored and logged. The logging of significant user actions concerns i.a. data export.</p> <p>The logging level also comprises employees at HeroBase, whereby it is checked that these do not access customer data without a work-related need for this. This is checked and tested in a detailed manner on the basis of spot checks.</p>	<p>We have inquired about logging of user activity and we have in spot checks inspected logging configurations.</p> <p>We have inquired about documentation for the security of log information, and we have inspected the solution.</p> <p>We have inquired about synchronisation up against an adequate time server.</p>	<p>We have observed that there are no policies for logging events or user activity on the OS-Level on the servers where applications are running.</p> <p>Furthermore, we have observed that there are no procedures for monitoring, storing, tamper prevention for logs on OS-level, for the servers where the applications are running.</p> <p>No further significant deviations noted.</p>

Control of operational software
Control objective: To ensure the integrity of operational systems.

No.	HeroBase A/S' control	REVI-IT's test	Test results
12.5	<p>We have procedures that ensure secure change management in business supporting systems. The procedures prescribe i.a. that change logs are obtained and evaluated, and that changes are tested before they are released.</p> <p>As all significant internal work processes are documented, the process documentation is updated where necessary, in connection with changes.</p>	<p>We have inquired about guidelines for installing software on operating systems and we have inspected the guidelines.</p> <p>We have inquired about documentation for timely updating of the operating systems.</p>	<p>We have observed that there is no formal policies or procedures to ensure that patches that are to be installed manually, are installed correctly or in a timely manner.</p> <p>However, we have observed that the company has established controls to ensure that software and security updates are installed and checked periodically, and that the controls have been performed.</p> <p>No further significant deviations noted.</p>

Technical vulnerability management
Control objective: To prevent exploitation of technical vulnerabilities.

No.	HeroBase A/S' control	REVI-IT's test	Test results
12.6	<p>There shall be acquired information about technical vulnerabilities concerning operational systems and technology.</p> <p>The vulnerabilities that the organisation is exposed to shall be evaluated, and appropriate measures shall be implemented to ensure that the related risk is mitigated.</p>	<p>We have inquired about the management of technical vulnerabilities, and we have inspected documentation for the management.</p> <p>We have inquired about the guidelines for access control regarding application installation, and we have inspected documentation for the limitation of users with rights to installing applications.</p>	<p>No significant deviations noted.</p>

Communications security

Network security management

Control objective: To ensure the protection of information in networks and its supporting information processing facilities.

No.	HeroBase A/S' control	REVI-IT's test	Test results
13.1	<p>We have procedures for network management and monitoring, including maintenance of network and network equipment.</p> <p>Traffic on all connections and interfaces are monitored in relation to data volume over periods of time. Alarms have been set up that are triggered and sent to technical personnel in case of abnormalities (traffic spikes, significant delays between master databases and slave databases, and much else).</p> <p>Exchange of information solely occurs by means of secure connections. If this occurs via the public Internet, data is encrypted (in principle by means of HTTPS).</p>	<p>We have inquired about protection measures for the network and network services.</p> <p>We have inquired about subcontractor's assurance report for network security management, and we have inspected the assurance report for adequate network security.</p> <p>We have inquired about secure network services and we have inspected documentation for satisfactory security.</p>	No significant deviations noted.

Information transfer

Control objective: To maintain the security of information transferred within an organisation and with any external entity.

No.	HeroBase A/S' control	REVI-IT's test	Test results
13.2	<p>All employees must adhere to a number of conditions regarding confidentiality regarding their own, HeroBase's, and customers' matters. This is described in each employee's employment contract.</p> <p>In all cooperation agreements with suppliers we have defined security requirements and minimum requirements for the services provided to us by the supplier.</p> <p>Exchange of information solely occurs by means of secure connections. If this occurs via the public Internet, data is encrypted (in principle by means of HTTPS).</p>	<p>We have inquired about data transfer policies and procedures.</p> <p>We have inquired about data transfer agreements.</p> <p>We have inquired about guidelines for sending confidential information.</p> <p>We have inquired about the establishment of confidentiality agreements, and we have inspected documentation for establishment.</p>	No significant deviations noted.

System acquisition, development and maintenance

Security requirements of information systems

Control objective: To ensure that information security is an integral part of information systems across the entire lifecycle. This also includes the requirements for information systems, which provide services over public networks.

No.	HeroBase A/S' control	REVI-IT's test	Test results
14.1	<p>The development of Hero Flows, including release of changes, occurs according to HeroBase's formalised and embedded development model.</p> <p>Exchange of information solely occurs by means of secure connections. If this occurs via the public Internet, data is encrypted (in principle by means of HTTPS).</p>	<p>We have inquired about information security related requirements for the company's solution, and we have inspected the requirements set.</p> <p>We have inquired about the solution chosen to secure data on public networks, and we have inspected the solution.</p> <p>We have inquired about documentation for secure transmission and we have inspected documentation for the protection of transmissions.</p>	No significant deviations noted.

Security in development and support processes

Control objective: To ensure that information security is designed and implemented within the development lifecycle of information systems.

No.	HeroBase A/S' control	REVI-IT's test	Test results
14.2	<p>The development of Hero Flows, including release of changes, occurs according to HeroBase's formalised and embedded development model.</p> <p>The development takes place in sprints, but not of an eternal, specified duration, as sprints are defined according to prioritised tasks in backlog.</p> <p>Next to master releases, hot fix releases are performed with corrections of distinct errors and significant inexpediencies. Significant errors and disclosed security weaknesses with the priority of 1 or 2 (cf. HeroBase's operations procedure) must always be handled as quickly as possible, and no later than within 3 working days.</p> <p>Integration testing with associated regression tests and happy flow testing takes place from CX branch, pre-release branch and/or release branch, where testing occurs in the master database, but on our own test data. Customers' personally identifiable data are thus not part of tests and are not accessed or viewed by HeroBase's employees in any of these test phases.</p> <p>HeroBase's release manager is the day-to-day responsible person for the process, and the process is evaluated every other week on a meeting between the release manager and HeroBase's CTO.</p>	<p>We have inquired about policies for management of software development and we have inspected the policy.</p> <p>We have inquired about procedures for management of changes to applications and we have inspected the procedure.</p> <p>We have inspected the development change tickets, by sample, to ensure that the process has been followed.</p> <p>We have inquired about testing of applications prior to release to production and we have inspected documentation for adequate testing.</p> <p>We have inquired about procedures for secure development and we have inspected the procedures.</p> <p>We have inquired about secure development and testing environments and we have inspected the solution.</p> <p>We have inquired about acceptance testing and we have inspected the documentation for adequate testing being performed.</p>	No significant deviations noted.

Test data

Control objective: To ensure the protection of data used for testing.

No.	HeroBase A/S' control	REVI-IT's test	Test results
14.3	<p>Test data and production data are thus completely segregated, and customers' data must not be copied from master to staging without approval from HeroBase's CTO.</p>	<p>We have inquired about the use of test data and we have inspected the procedures for use of data in development, test, and production environments.</p>	No significant deviations noted.

Supplier relationships

Information security in supplier relationships

Control objective: To ensure protection of the organisation's assets that are accessible by suppliers.

No.	HeroBase A/S' control	REVI-IT's test	Test results
15.1	<p>In all cooperation agreements with suppliers we have defined security requirements and minimum requirements for the services provided to us by the supplier.</p> <p>We have ensured that the matters we base our agreement on regarding the use of the product and service Hero Flows in relation to customers are in accordance with our requirements to our suppliers.</p> <p>We regularly, and at least annually, review the cooperation agreements, just as we obtain assurance reports for the entered agreements.</p> <p>We have defined a responsibility for quarterly reviewing reports from the external service providers for operational equipment regarding events, issues, errors, crashes, and logging.</p>	<p>We have inquired about formalisation of supplier agreements and we have inspected the agreement in order to check for information security.</p> <p>We have inspected a sub-supplier's assurance report in order to identify whether there are significant observations and whether it is adequate in relation to the company's agreement with the supplier.</p>	No significant deviations noted.

Supplier service delivery management

Control objective: To maintain an agreed level of information security and service delivery in line with supplier agreements.

No.	HeroBase A/S' control	REVI-IT's test	Test results
15.2	<p>In all cooperation agreements with suppliers we have defined security requirements and minimum requirements for the services provided to us by the supplier.</p> <p>We have ensured that the matters we base our agreement on regarding the use of the product and service Hero Flows in relation to customers are in accordance with our requirements to our suppliers.</p> <p>We regularly, and at least annually, review the cooperation agreements, just as we obtain assurance reports for the entered agreements.</p> <p>We have defined a responsibility for quarterly reviewing reports from the external service providers for operational equipment regarding events, issues, errors, crashes, and logging.</p>	<p>We have inquired about monitoring of sub-suppliers, and we have inspected documentation for monitoring.</p> <p>We have inquired about management of changes at sub-suppliers.</p>	No significant deviations noted.

Information security incident management

Management of information security incidents and improvements

Control objective: To ensure a consistent and effective approach to the management of information security incidents, including communication on security events and weaknesses.

No.	HeroBase A/S' control	REVI-IT's test	Test results
16.1	<p>The information security committee has defined procedures for information security incidents and events, which are embedded in HeroBase and which the management is responsible for being observed.</p> <p>We define information security incidents as:</p> <ul style="list-style-type: none"> • The detection of successful external and unwanted intrusion in systems • Finding customer data (hosted in the master database for Hero Flows) online, where there is an obvious or strong suspicion that the publication of data has not occurred with the customer's approval and intent • Finding data on current or former employees in HeroBase online, where publication of data has occurred without HeroBase's involvement or intent • Finding other confidential business data online (according to the same directions) defined as customer contracts, revenue, or information which is classified as secret according to further definition by the information security committee <p>We define information security events as:</p> <ul style="list-style-type: none"> • Events that, if they had not been discovered, could have led to security incidents • Situations where unintended data or information by accident (due to human error) has been sent to other recipients than the intended, and that it is assessed that this may entail damage or serious consequences for HeroBase <p>Procedures have been defined for both, which describe for employees and managers how they should act in case of incidents and events, including (but not limited to) gathering evidence and contact with authorities, if necessary.</p> <p>All employees are aware of the instructions and have trained them.</p>	<p>We have inquired about responsibilities and procedures for information security incidents, and we have inspected documentation for the allocation of responsibilities. Additionally, we have inspected the procedure for handling information security incidents.</p> <p>We have inquired about guidelines for reporting information security incidents and weaknesses, and we have reviewed the guidelines.</p> <p>We have inquired about information security incidents during the period.</p> <p>We have inquired about an information security breach assessment, response and evaluation procedure and we have inspected the procedure.</p>	<p>No significant deviations noted.</p>

Information security aspects of business continuity management

Information security continuity

Control objective: Information security continuity should be embedded in the organisation's business continuity management systems.

No.	HeroBase A/S' control	REVI-IT's test	Test results
17.1	<p>We have defined the responsibility for preparing emergency plans, contingency plans, and restore plans.</p> <p>We have established adequate redundancy to meet the requirements for availability and the guarantees for uptime that we have agreed in contracts with our customers.</p> <p>All technical employees have trained the plans.</p> <p>Plans and procedures are regularly reviewed and after each operational issue where human action has been necessary to re-establish operations on parts of the platform.</p>	<p>We have inquired about the preparation of a contingency plan to ensure continuation of operations in connection with breakdowns and the like, and we have inspected the plan.</p> <p>We have inquired about implementation of compensatory measures in connection with testing of emergency response plans, and we have inspected documentation for the implementation.</p> <p>We have inquired about the testing of the contingency plan, and we have inspected documentation for completed testing.</p> <p>We have also inquired about a reassessment of the contingency plan, and we have inspected documentation for reassessment.</p>	No significant deviations noted.

Redundancies

Control objective: To ensure availability of information processing facilities.

No.	HeroBase A/S' control	REVI-IT's test	Test results
17.2	Information processing facilities shall be established and implemented with adequate redundancy in order to adhere to the company's demand for availability.	We have inquired about the availability of operating systems and we have inspected the established measures.	No significant deviations noted.

Compliance

Information security reviews

Control objective: To ensure that information security is implemented and operated in accordance with the organisational policies and procedures.

No.	HeroBase A/S' control	REVI-IT's test	Test results
18.2	We regularly check that rules and procedures are observed, followed, and documented. We ensure that we act in accordance with applicable legislation and furthermore that we adhere to the requirements posed to documentation by national legislation. We ensure that personal data is protected and processed in accordance with the Data Protection Act and GDPR.	<p>We have inquired about independent evaluation of information security.</p> <p>We have inquired about an internal control to ensure compliance with security policies and procedures, and we have inspected selected controls.</p> <p>We have inquired about periodic verification of technical compliance and we have inspected documentation for monitoring.</p>	No significant deviations noted.