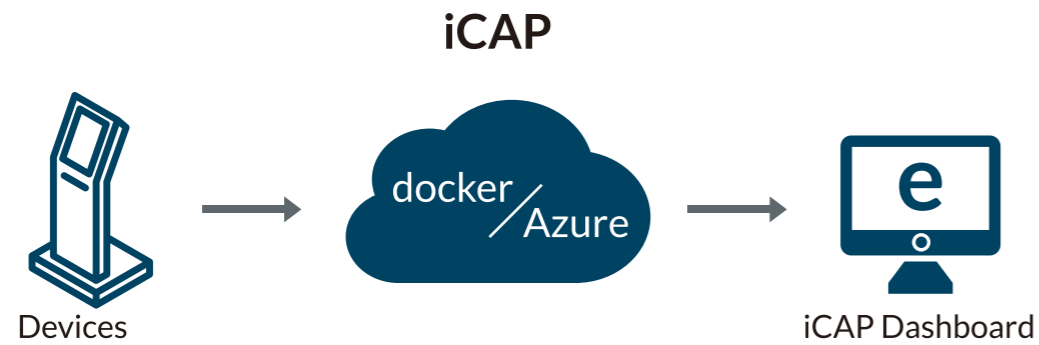## iCAP

With the advent of the Internet of Things every system integrator is faced with the task of how to successfully integrate a cloud computing system. Innodisk has developed a smart management system which enables the user to easily access the status every connected device. In addition, the combination with our in-house designed tools iSMART and iCover can successfully predict remaining SSD lifetime and trigger alerts when certain preset thresholds are met, as well as providing a remote system backup and recovery service. By integrating a digital I/O expansion card, the user can also store all data gathered from sensors and devices in a back-end database. By utilizing the business intelligence gathered from the raw data, the operator can successfully implement further measure to grow business.

iCAP

Devices → docker/Azure → iCAP Dashboard

iCAP key features

Device surveillance service
- System & storage SMART information
- External I/O & sensor information
- System failure notification

Data analysis service
- SSD life cycle estimation
- System life cycle estimation
- Storage data behavior analysis
- Recommended system failure solution
- Scenario data analysis

Device remote service
- System auto backup & recovery
- Scenario application

Advantages:

Quick deployment	Enabling the customer to easily implement their cloud management system through a client agent and system image.
System Integration	By also offering customized OS building services, implementation time is significantly reduced.
High customization	Ensures a smooth integration of I/O card and sensors into your cloud management system. Information is made clearer and more readily available.
Win-win model	By offering this service, we hope to be able to continue developing this model to grow business both for Innodisk and you, ensuring a win-win situation.

customization

iSMART

iCAP

cloud

iCover

OS Features

management

iService™

An Optimization of Your System

iService™ is a comprehensive service including customized software development and a close follow-up from inquiry to implementation. The service includes dedicated tools to handle remote control, monitoring, recovery and cloud management.

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innodisk

iService™

Cloud management System:
- Intelligent system strategy, design, integration and implementation

Software Solutions
- Storage monitoring tool
- Rapid recovery & backup

OS Building Service
- Reduced footprinte size
- Increased security
- Increased performance

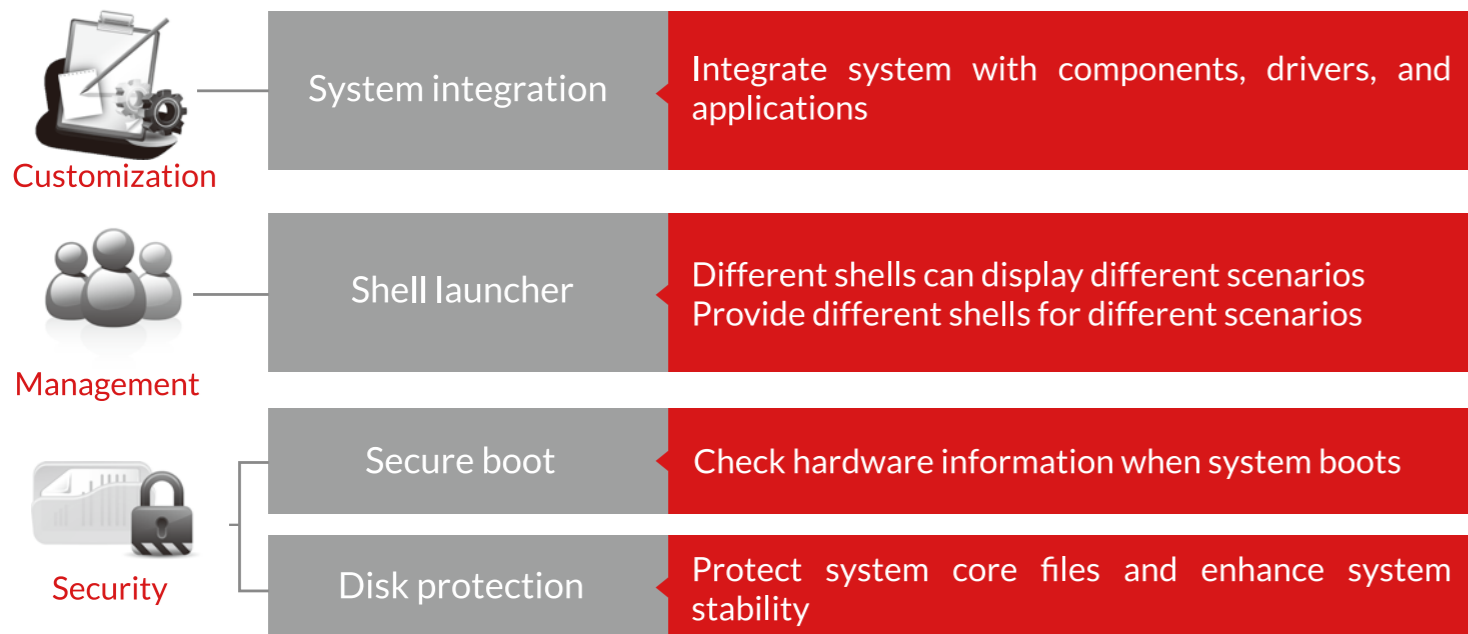### Component
- Flash
- DRAM
- CANBus、DIO、Serial、RAID

Operating System Building Service

Innodisk has the capability to customize an operating system exclusively for your hardware platform. Through our operating system building services, we can recommend programs suitable for an embedded system that optimizes the performance of your system.

1. Design
- Provides a request form for OS specifications

2. Development
- OS customization
- Integration of Innodisk or third party application

3. Testing
- Software function test
- Hardware I/O function test
- Provides test report to ensure OS integrity

4. Mass Production
- Prepares OS clone
- Pre-loads image

Key feature

Customization

| System integration | Integrate system with components, drivers, and applications |

Management

| Shell launcher | Different shells can display different scenarios. Provide different shells for different scenarios |

Security

| Secure boot | Check hardware information when system boots |
| Disk protection | Protect system core files and enhance system stability |

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iSMART

iSMART is a proprietary software developed to access the SMART attributes of Innodisk SATA devices. The software gives the user full access to all SMART related data as well as being able to monitor additional parameters through a simple and user-friendly interface. In addition, the SMART attributes can be exported and further analyzed to gain a comprehensive picture of SSD health and status.

Features

SMART
When activated, the iAnalyzer tab displays the read/write behaviors of the SSD in real time. This allows the user to understand their application usage of the SSD. Sequential and Random I/Os are easily broken down into smaller and more comprehensible units.
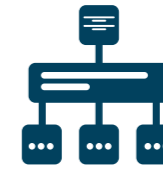
iAnalyer / iSecurity
The integrated iAnalyzer function enables the user to gain a full picture of SSD usage, while iSecurity allows the user to execute security erase functions.

Automatic monitoring
The Alert tab helps the user set trigger points with Temperature, Health percentage, Remaining Capacity or Life Remaining. If these trigger points exceed their boundaries, the iSMART utility can send a warning to the user notifying them of any issues.

Provides API and support for multiple OSs
Innodisk understand that customer applications are varied. Therefore, iSMART is able to support Windows and Linux OS and provide API to help customer integrate iSMART into their system.
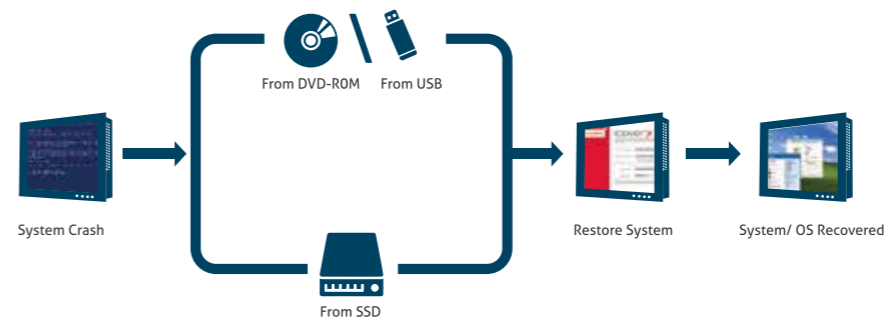
System requirement

Items	iSMART
Processor	1GHz or faster
RAM	2GB
OS Support	Windows : XP / 7 / 8.1 / 10 & Embedded Series Linux : Fedora, CentOS, Ubuntu, Debian

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iCover

Introduction
iCover is an easy-to-use, highly-customized backup and recovery software tool designed for industrial computers. iCover will not only recover the operation system, but also all of the applications, drivers and personal data by using the recovery image. It is fully compatible with Microsoft Windows and Linux operating systems.

Workflow

System Crash → From DVD-ROM / From USB / From SSD → Restore System → System/ OS Recovered

System requirement

Items	iCover series
Processor	1GHz or faster
RAM	2GB
Support Storage	SSD/CF/mSATA/M.2
OS Support	Windows : Windows XP/7/8.1/10 Windows Embedded Series Linux : Ubuntu、Yotco、CentOS
File System	Windows : NTFS/FAT32 Linux : Ext4/Ext3/Ext2

Key feature

Remote backup and recovery
Support SMB/CIFS protocol to backup and recover system image

Intelligent disk management
Create and manage the partitions of your system

Device lockdown
Lock down the Mac address ID to avoid unauthorized duplication

GPIO trigger
Switch between user mode and recovery mode with the touch of a button