The **IBSS**web is a browser based security management system software that is truly scalable, from any access control only application and expanding to a comprehensive suite of fully integrated security systems solution.

A highly robust enterprise software, the **IBSS**web is built with more than 20 years of experience. It provides seamless integration of access control, intrusion and CCTV surveillance systems for effective and efficient security control center and command.

Optional modules include Single Sign-On (SSO), server failover, visitor management, biometric enrolment, HR Database synchronization and Web API, etc. allow optimized connectivity with many 3rd party systems for truly enterprise operations.

Key Features

Operation:

• Enterprise security management for enterprise deployment

• Comprehensive access management for doors/gates, elevators, pedestrian turnstiles and vehicle barriers

• Unlimited card IDs per cardholder, each card ID with unique validity and access rights

• Unlimited User Access Levels for system operators with drill down to each access level for viewing, adding, deleting, modifying and downloading

• Access rights management for operators by User Security Level and Security Area

• Built-in Card Designer with user definable card design template

• Report generator for quick access to audit, time clocking and roll call reports

Integration:

• Integrated biometric enrolment for fingerprint and Iris recognition

• Integrated IP CCTV surveillance with live video, automatic pop-up video and intelligent video search

• Fully integrated Visitor Management System allowing visitor rights assignment based on purpose of visit

• Built-in industry standard web service allows integration to 3rd party systems

• Integration to SKeyMa for enhanced security to counter card cloning and hacking

• Integration to 3rd party HR database for automatic enrolment of cardholders

System:

• HTML5 compliant web client

• SSO (single sign-on) with support for LDAP and Active Directory

• Highly scalable and secured MS SQL server database

• Built-in automatic failover **IBSS**web server redundancy capabilities

System Benefits

Enterprise Scale
The enterprise software is highly scalable and versatile. It can be used with only a small 2 door access control system through to any enterprise deployment comprising multiple sites, and with up to 2048 doors and 100 client stations.

Built on Microsoft .NET framework, the application is future-proof, upgrading with each new framework version. The SQL Server database engine is easily scaled to suit any requirement.
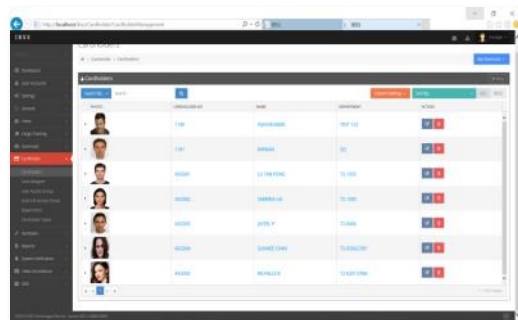
### Unlimited Credentials per Cardholder
This software supports unlimited credentials per cardholder. Each unique credential can be configured independently for settings such as card ID, PIN, start and expiry dates, User Access Group (UAG), card status, etc..
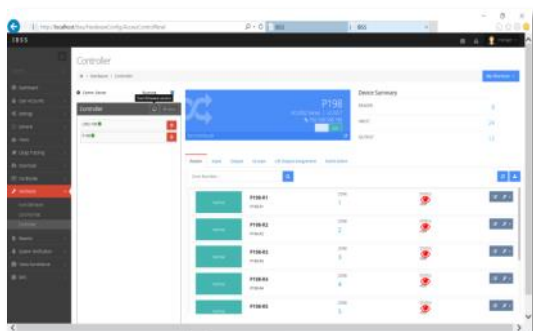
Unlimited User Access Levels
Different levels of user access is easily managed. Each user level or type can be configured for access to *View, Modify, Add, Delete* and/or *Download*. System users can be assigned login rights according to the User Access Level assigned. The **IBSS**web supports unlimited access levels.

Administrative staff, security managers, system administrators and others can be assigned unique User Access Levels to allow them to perform their jobs effectively.
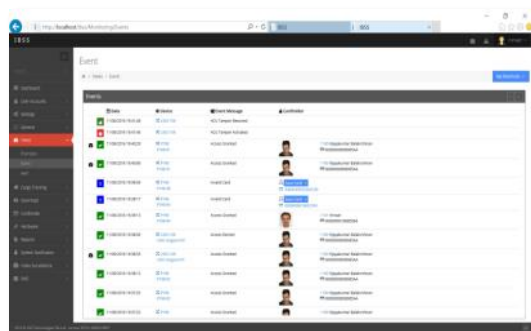
Comprehensive Access Management
Experienced security managers will appreciate the key features such as three configurable timers per access door, multiple credentials per access request and complex combinations of card, PIN and biometric recognition.

This software also has built-in capability for intrusion detection monitoring with configurable arm or disarm by schedule or by event. Each connected output relay may be activated by schedule or by event.

HTML5 Web Browser UI
It is important that the software is platform and browser independent, and HTML5 compliance allows easy access to the **IBSS**web from anywhere in the world without having to pre-install or setup software.

The user interface is available with Internet Explorer, Chrome, Firefox, Safari and mobile based browsers including iOS and Android.

Single Sign-On
Single sign-on (SSO) is a user authentication process that permits a user to use only one user name and password to access multiple applications. The SSO implementation supports LDAP or Windows Active Directory.
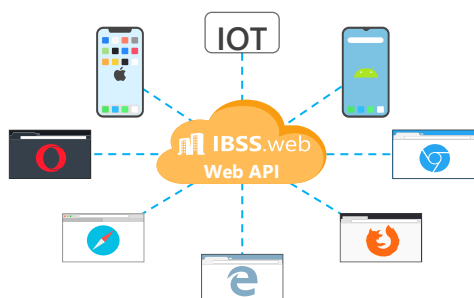
System Benefits

Time Clocking System

The **IBSS**web can use existing readers as clock-in and clock-out devices to generate time clocking reports. The 6 default reports available include:

- First In Last Out
- Absentees List
- 6 In/Out Pairs
- Overtime
- Cumulative Hours
- Attendance

Web Service

The industry standard web service based Web API allows third party systems to interface to the **IBSS**web to perform the following:

- On-line control of all connected devices
- Enable / Disable cardholder
- Add / Modify / Cancel facility booking
- Intrusion Arm / Disarm / Activate / Deactivate
- Alarm management
- Receive event logs
- Query the database
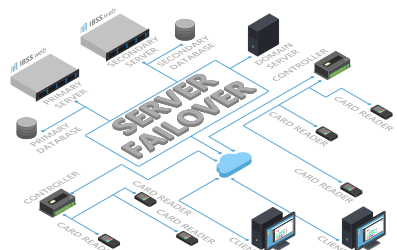
Automatic Failover Architecture

The **IBSS**web is built with a server redundancy feature that continuously performs data synchronization between 2 (or more) servers and monitors each operational status.

When the primary server is detected to have failed, the secondary server will kick in to take over command and control. All connected clients and controllers will reconnect to the secondary server seamlessly without disruption to system operations.

Integrated Biometric Enrolment

Integrated Biometric enrolment ensures correct assignment of a biometric identifier with its rightful owner, who is also the cardholder.

The **IBSS**web software seamlessly manages the enrolment of any biometric (fingerprint and iris) template from capture, to assignment to cardholder, database storage and propagation to all field biometric recognition devices.

Integrated Visitor Management System (VMS)

The Visitor Management System (VMS), an optional module of the **IBSS**web, provides a highly efficient process to register visitors, issue and manage access cards and the access rights of visitors, contractors and temporary employees.
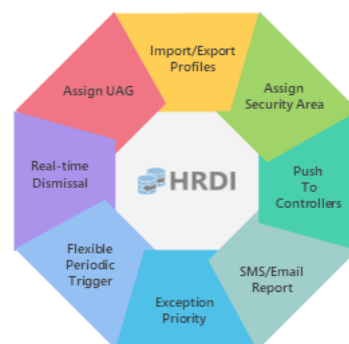
Integrated HR Database Integrator

Third party HR database systems can be easily integrated to the **IBSS**web to facilitate cardholder enrolment and termination automatically. Pre-determined User Access Group (UAG) assignment for every cardholder can be configured based on parameters from the HR database.

The cardholder and event database from **IBSS**web can also be automatically exported for various purposes, such as time attendance, etc.

System Benefits
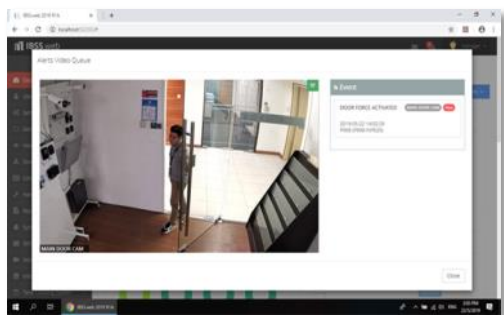
Integrated Video Surveillance

An installed CCTV camera can be represented on a floorplan in the **IBSS**web software with an icon. Clicking on the icon will display live video from the camera.

Any event of interest can be configured to display a popup window for live viewing. Unlimited popups are supported.

Video footage can be tagged to any access event in the **IBSS**web for convenient retrieval and investigation. There is also an intelligent search feature that makes stored video searchable. Stored video may be searchable by Event type, Cardholder, Card ID, Reader, etc. reduces investigation time significantly.

Integration to 3rd Party Attendance Systems

This integration allows the use of existing readers as clock-in and clock-out attendance reader without the additional cost to install new attendance terminals. Any reader can be set as attendance remotely from **IBSS**web.

The clock-in/out data from the **IBSS**web can be exported to 3rd party attendance systems for purposes such as payroll.

Integration to SKeyMa

The **IBSS**web is fully integrated with SKeyMa. The two softwares work in tandem to counter card cloning and hacking. Together, they deliver a highly secure system with end to end encryption from card authentication all the way to the server.

Table of Specifications

Specifications*	EXP	STD	S01	S02	PRO	P01	P02	ENT	E01	E02	✖
Description	Express	Standard			Professional			Enterprise			Ultimate
		Edition	Package 1	Package 2	Edition	Package 1	Package 2	Edition	Package 1	Package 2	Edition
Simultaneous Connections	1	2	2	2	5	5	5	Unlimited	Unlimited	Unlimited	Unlimited
Credentials	10	250	500	750	1000	2000	3000	2000	3000	5000	Unlimited
Readers (max)	2	20 (60)	30 (60)	40 (60)	60 (200)	80 (200)	100 (200)	100 (2000)	150 (2000)	200 (2000)	2000 (2000)
Floorplans	1	5	5	5	10	10	10	Unlimited	Unlimited	Unlimited	Unlimited
Multi Lift Group (max)	No	255	255	255	255	255	255	255	255	255	255
Event Logs	45 days	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Security Level	1	2	2	2	5	5	5	Unlimited	Unlimited	Unlimited	Unlimited
Security Area	No	No	No	No	2	2	2	Unlimited	Unlimited	Unlimited	Unlimited
Browser UI	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CardDesigner/ Card Printing	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Standard Report	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Basic Audit Report	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Add-on Modules

	EXP	STD	S01	S02	PRO	P01	P02	ENT	E01	E02	✖
Report Generator	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Advanced Audit Report	No	No	No	No	Optional	Optional	Optional	Yes	Yes	Yes	Yes
Time Clocking Report	No	No	No	No	Optional	Optional	Optional	Yes	Yes	Yes	Yes
Roll Call / Mustering	No	No	No	No	Optional	Optional	Optional	Yes	Yes	Yes	Yes
Messaging Gateway	No	No	No	No	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Web API	No	No	No	No	Optional	Optional	Optional	Optional	Optional	Optional	Optional
SSO / LDAP / AD	No	No	No	No	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Server Failover	No	No	No	No	Optional	Optional	Optional	Optional	Optional	Optional	Optional
HR Database Integrator	No	No	No	No	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Video Integration (ASIS NVR)	2	16 (32)	16 (32)	16 (32)	32 (128)	32 (128)	32 (128)	64 (512)	64 (512)	64 (512)	64 (512)
Video Integration (3rd Party)	No	No	No	No	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Visitor Management System	No	No	No	No	Optional	Optional	Optional	Optional	Optional	Optional	Optional

Prerequisite

	EXP / STD / S01 / S02	PRO / P01 / P02	ENT / E01 / E02	Ultimate
Server Hardware (CPU / RAM)	Intel i5 2GHz / 16GB	Intel Xeon 2C 2GHz / 24GB	Intel Xeon 4C 2GHz / 32GB	Intel Xeon 8C 2GHz / 48GB
VM (vCore / RAM)	N/A	2 vCore / 24GB	4 vCore / 32GB	8 vCore / 48GB
Operating System	Win 10 Pro	Win Server 2016		
SQL	SQL Server 2017 Express	SQL Server 2017 Standard		

Specifications are subject to change without prior notice

Ordering Information

Model No.	Description
IBSSweb-EXP	**IBSS**web Express
IBSSweb-STD	**IBSS**web Standard Edition
IBSSweb-S01	**IBSS**web Standard Package 1
IBSSweb-S02	**IBSS**web Standard Package 2
IBSSweb-S/CR	Credential Add-On to **IBSS**web-STD : Add-On Credential Pack (50s)
IBSSweb-S/RD	Reader Add-On to **IBSS**web-STD : Add-On Reader (ea)
IBSSweb-PRO	**IBSS**web Professional Edition
IBSSweb-P01	**IBSS**web Professional Package 1
IBSSweb-P02	**IBSS**web Professional Package 2
IBSSweb-P/CR	Credential Add-On to **IBSS**web-PRO : Add-On Credential Pack (50s)
IBSSweb-P/RD	Reader Add-On to **IBSS**web-PRO : Add-On Reader (ea)
IBSSweb-ENT	**IBSS**web Enterprise Edition
IBSSweb-E01	**IBSS**web Enterprise Package 1
IBSSweb-E02	**IBSS**web Enterprise Package 2
IBSSweb-E/CR	Credential Add-On to **IBSS**web-ENT : Add-On Credential Pack (50s)
IBSSweb-E/RD	Reader Add-On to **IBSS**web-ENT : Add-On Reader (ea)
IBSSwebX	**IBSS**web Ultimate Edition
Optional Modules	
IBSSweb-*RPG*	**IBSS**web Report Generator
IBSSweb-*AAR*	**IBSS**web Advanced Audit Report
IBSSweb-*TCR*	**IBSS**web Time Clocking Report
IBSSweb-*RCR*	**IBSS**web Roll Call Report
IBSSweb-*SMS*	**IBSS**web Messaging Gateway
IBSSweb-*API*	**IBSS**web Web API
IBSSweb-*ADS*	**IBSS**web Active Directory Service
IBSSweb-*SFO*	**IBSS**web Server Failover Service
IBSSweb-*HRD*	**IBSS**web HR Database Integrator
IBSSweb-*CAM*	**IBSS**web CCTV Integration - Add-On Camera Connection (8s)
IBSSweb-*VMS*	**IBSS**web Visitor Management System
IBSSweb-*VEC*	**IBSS**web VMS Additional Client License