



## TECHNICAL TIPS

**PRODUCT:** BioLock

**Subject:** Output/integration options with BioLocks

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**Revision:** 2

BioLock users may want to integrate the device into other systems to add biometric security to another physical or logical system.

Examples of such integration requirements include home automation, machinery and industrial control, environmental controls, critical PC event triggering etc.

There are 7 ways currently to integrate a BioLock output to another system. In order of increasing complexity they are:

1. **Relay contact(s).** This gives confirmation that there has been a successful verification but does not give any user identification. This is adequate for electro-mechanical integration with simple systems (eg alarms, doors, simple device controllers). This is the normal door-open interface to electric locking systems.
2. **Wiegand output.** Generally for security-related equipment (as the Wiegand standard is security-related), and can pass verified user identities to the receiving system (via the Wiegand user number). The receiving system would have to populate other data such as time stamps etc. Parameters set in the BioLock PC server software, or via the BioLock+ Standalone web page (if operating in standalone mode).
3. **URL request** (BioLock+ Standalone only). The BioLock Standalone can pass a URL request to any another Internet device (address) on successful (and unsuccessful) verification. Please contact BRS for more information on this option if you wish to implement. Operates in standalone mode.

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4. **File export.** The export function of the BioLock PC server software can generate a data record into a free-format text file when a finger verifies. Building a file format needs only be done once (the on-line help instructions are useful for this). The format can be in CSV format that can be read by Excel, Access or similar programs, and the file can be polled by an external application to check for new records. This interface is often used for integrating other software applications such as time & attendance packages, home automation packages etc.
5. **Database export.** Records can be exported in real-time directly to an SQL database via the BioLock PC server application export function, by specifying an SQL connection string. Database-driven applications can then process these records accordingly.
6. **Scripting.** Version 56 release or greater of the BioLock PC server software can fire a real-time Visual Basic script, or commence execution of any other Windows program, on successful finger verification. Many logical-access applications can use this feature to achieve their purpose without the development work and overhead of using an SDK. For details of implementing the scripting feature, please refer to Technical Tip 12 (Scripting).
7. **Software Development Kit.** BRS does offer an SDK, which can be used to embed BioLocks into other PC applications (perhaps home automation or industrial process control). As the SDK contains source code, a non-disclosure agreement must be executed first. There is also a nominal cost for providing the SDK. Development support for the SDK is provided, but generally not development of customer applications. To obtain a copy of the SDK, a mutual non-disclosure agreement must be signed first, and a one-off fee paid.

**FURTHER INFORMATION:**

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***Bio Recognition Systems Pty Ltd is a 100% Australian owned and operated hardware and software developer and manufacturer. Located in Lane Cove, Sydney, Bio Recognition Systems Pty Ltd began by offering its customers software and hardware solutions in 1999. Its leading edge BioMetric technology harnesses the power of the newest technology in fingerprint recognition.***

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