# ViewDS Identity Bridge

Synchronize across all your on-premises and cloud resources irrespective of platform, interface or data format.

As organizations grow and expand their software infrastructure, the need to synchronize data between disparate systems, and to track and audit change, becomes increasingly complex.

Identity Bridge is a highly flexible synchronization tool that allows you to extract, transform and load data across all your enterprise and cloud systems. It allows you to deliver, for example, automated provisioning, seamless migration, and a 'single source of truth'.
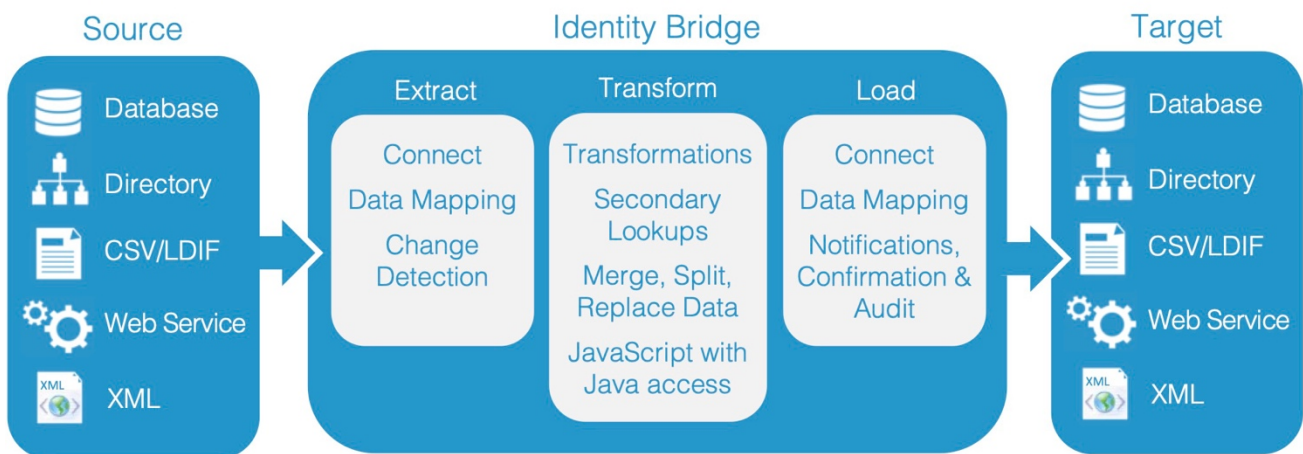
Features include the ability to connect to any data source, apply bespoke transformations, trigger notifications, and collect auditing data.

Key benefits include the efficiency and cost savings of a stand-alone, light-weight utility that seamlessly integrates with every component of your infrastructure.

Connectivity to cloud and on-prem resources with pre-built connectors, plus API to build custom connectors

Pre-built connectors include Active Directory, LDAP, SQL, XML, CSV/LDIF, Web Services

Intuitive User Interface to define synchronization tasks, with JavaScript and Java capabilities

Lightweight and platform-independent with high-speed processing

Low-cost, rapid deployment and implementation, with high scalability

Automated synchronization with data-change detection and scheduling options

Highly flexible and efficient synchronization delivers automated provisioning, seamless migration, dissemination of self-service updates, and a 'single source of truth', for example

Use case: Employee provisioning

When a new employee joins an organization, there's an imperative to get them up and running as quickly as possible. This, however, can be a lengthy and complex process.
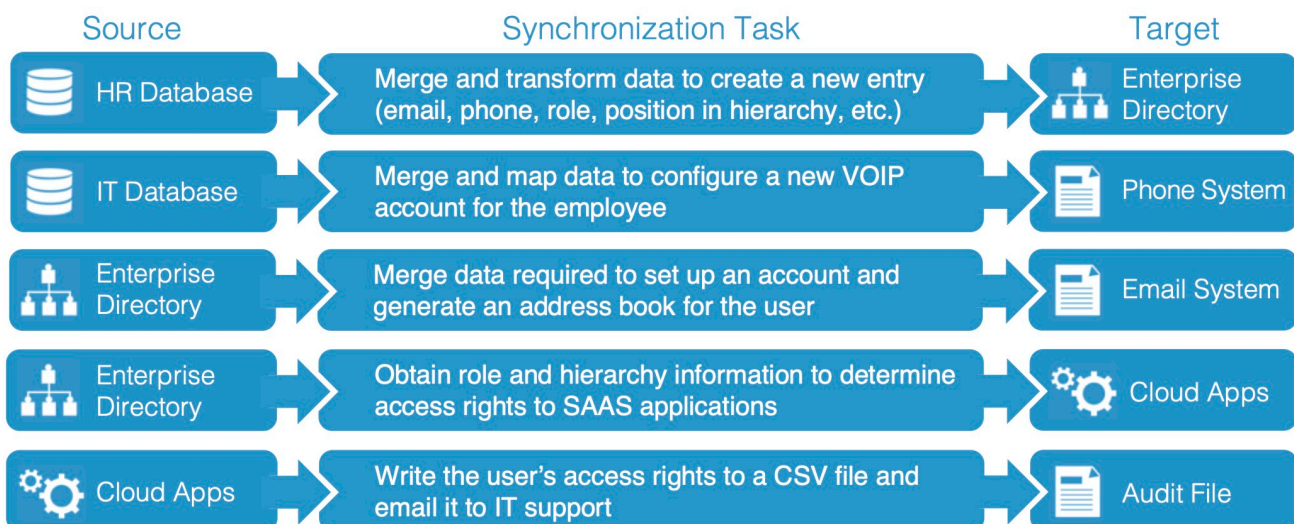
It may take mere minutes to add an employee to a central HR database, for example, but setting them up on every other system can be a time-consuming affair. Then later, when the employee eventually leaves, the entire process must be reversed.

While provisioning may be provided within a full *Identity and Access Management* (IAM) solution, these systems are highly complex and come with additional functionality that may not be required. And, more importantly, at a cost that cannot be justified.

Identity Bridge solution

Identity Bridge delivers provisioning and de-provisioning without the major investment in a complex IAM system or dependence on a single vendor.

The following illustrates an example workflow in Identity Bridge comprising a series of synchronization tasks. Collectively, the tasks provision a new employee.

| Source	Synchronization Task	Target
HR Database	Merge and transform data to create a new entry (email, phone, role, position in hierarchy, etc.)	Enterprise Directory
IT Database	Merge and map data to configure a new VOIP account for the employee	Phone System
Enterprise Directory	Merge data required to set up an account and generate an address book for the user	Email System
Enterprise Directory	Obtain role and hierarchy information to determine access rights to SAAS applications	Cloud Apps
Cloud Apps	Write the user's access rights to a CSV file and email it to IT support	Audit File

The workflow starts automatically when a new employee is added to the HR database. The consequent tasks extract, transform and load data into each business system required to provision the employee. Similarly, a workflow to deprovision could be triggered when someone is flagged as an 'ex-employee'.

Workflows are maintained through **Identity Bridge Studio**, a highly intuitive user interface that allows you to select resource connectors and define synchronization tasks graphically.

You can define simple 'no-code' tasks, or more complex transformations with JavaScript. If, however, greater extensibility is still required you can also script in Java.

Workflows are then executed by the **Identity Bridge Engine**, a lightweight, cross-platform process.
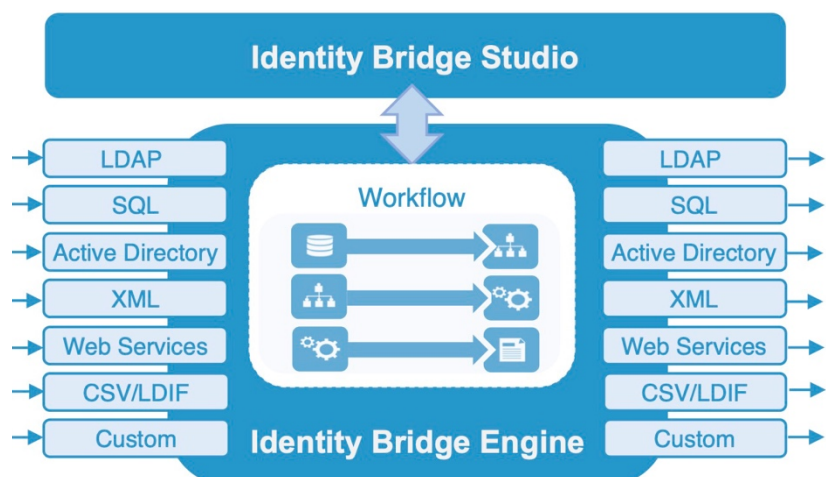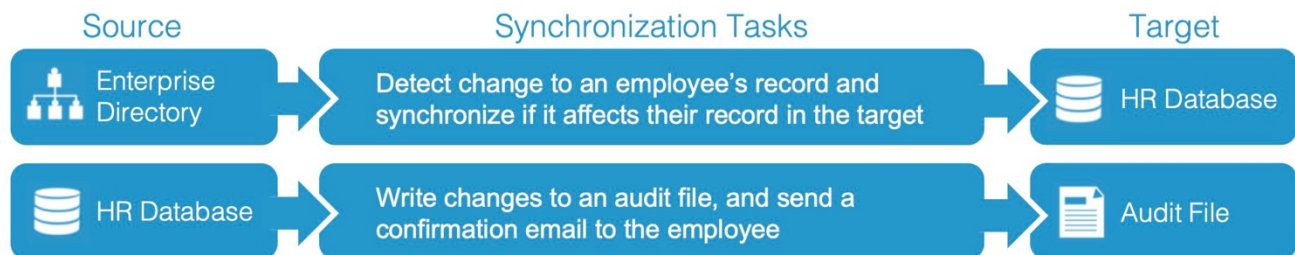
Synchronize self-service updates

As an extension of the above, consider the scenario where a provisioned employee wants to update their personal details in an Enterprise Directory, such as *ViewDS Directory Server*.

The user can make an update through the directory's self-service portal, which ensures that the task of maintaining personal data is in the hands of the person most qualified to do so. However, a major consideration is that these updates will usually need to be distributed to other business systems.

An Identity Bridge workflow to overcome this issue would automatically detect a change to an employee's record and then perform synchronization tasks with all relevant systems.

Source	Synchronization Tasks	Target
Enterprise Directory	Detect change to an employee's record and synchronize if it affects their record in the target	HR Database
HR Database	Write changes to an audit file, and send a confirmation email to the employee	Audit File

Summary

In summary, Identity Bridge delivers greater efficiency and flexibility while reducing risk and costs.

Efficiency…

- ➢ Rapid deployment, scalable and secure, platform-independent
- ➢ Intuitive UI to define and manage synchronization workflows
- ➢ Automated synchronization with change detection and scheduling

Flexibility…

- ➢ Highly adaptable to fulfil an organization's specific requirements
- ➢ Library of JavaScript functions relating to synchronization; and the option to script in Java provides full extensibility of synchronization tasks
- ➢ Range of pre-built resource connectors, plus option to extend connectivity through JavaScript or Java API

Risk mitigation…

- ➢ Highly accessible support and usable documentation
- ➢ Designed and developed by a proven software innovator
- ➢ Responsive ongoing development to fulfil new requirements