

## Cloud Technical Specifications

# Gimmel Physical

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### Version History

Version	Approved By	Effective Date	Description of Change
3.11	Will Irwin	10/11/2021	Created for Gimmel Physical v3.11

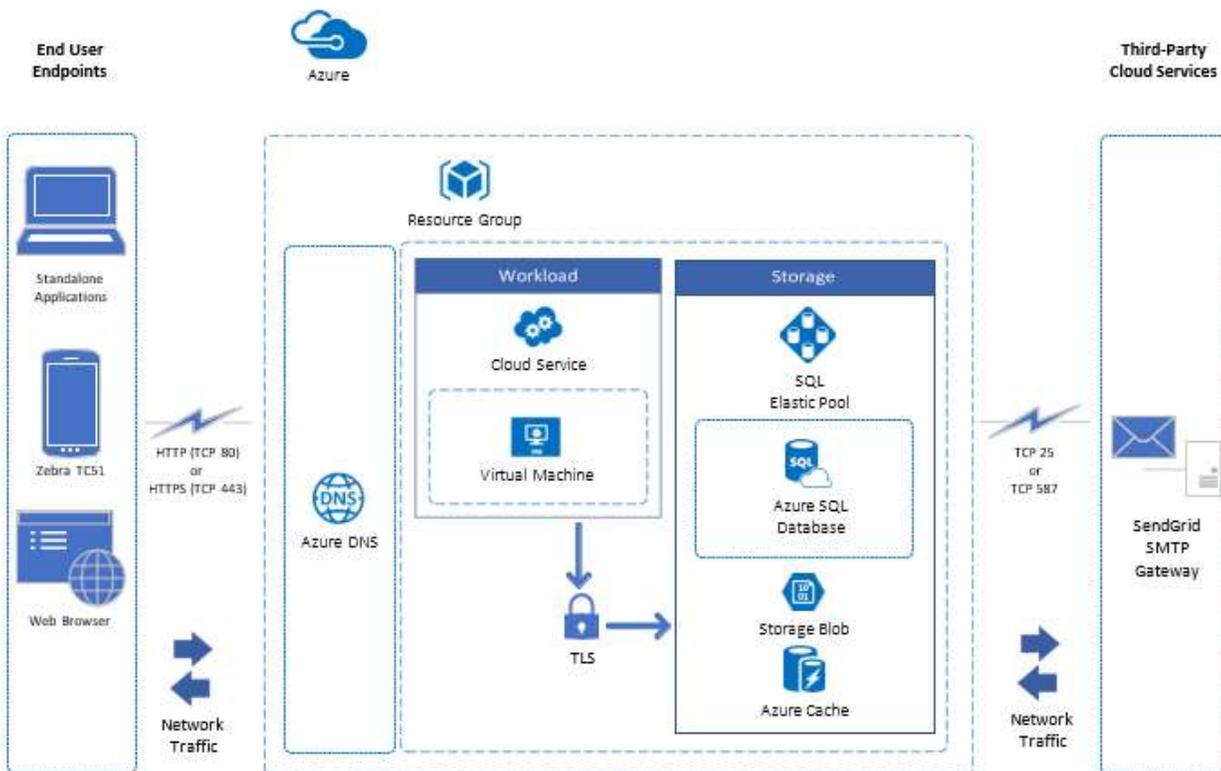
3.11	Terry Butler	03/02/2022	Updated screen shots and format
3.11	Terry Butler	08/23/2022	Added data center information, removed information covered by our SOC documentation

## Introduction

Gimmel Physical is a web-based application that is offered as either a cloud-based or on-premises solution. The technical specifications in this document for the following sections are **specific to cloud installations**. The Gimmel Physical web application and data will be stored on the Microsoft cloud computing platform known as Azure. Azure is a top-rated cloud provider and is responsible for cloud security, data backup and cloud uptime and availability. This arrangement gives you all the features provided in Gimmel combined with the security resources provided by Microsoft Azure.

## Application Architecture

By architecture design, the Gimmel Physical web application and database run fully on Azure where each solution is isolated by the customer, no multitenancy, no shared resources other than the Azure platform.



## Application Architecture Components

Gimmel Physical application architecture includes the following components.



1. Azure DNS to resolve CNAME mapping to dedicated Azure Cloud Service URL.
2. Azure Resource Group groups the following components per client.
  - a. Azure Cloud Service which runs a dedicated virtual machine hosting the Gimmel Physical web application. Cloud Service connections to all other components within Azure leverage TLS for secure encrypted connection.
  - b. Azure SQL Elastic Pool or Azure SQL Database, depending on client data load, client database will be hosted either on a dedicated SQL Elastic Pool or SQL Database.
  - c. Azure Storage Blob stores all electronic files created by the Gimmel Physical web application. Digital Content module relies on Storage Blob to store electronic records.
  - d. Azure Cache (Redis Cache) is used for session management and cache scenarios to improve performance within the Gimmel Physical web application.
3. SendGrid SMTP Gateway is used to send transactional email from the Gimmel Physical web application. Connection to SMTP gateway can be either thru port TCP 25 (unencrypted) or port TCP 587 (encrypted via TLS).

## Data Centers

Gimmel Physical utilizes the following Azure data centers: East US, Canada Central, US Gov Virginia and Northern Europe.

## Security

### Service Organization Controls Standards

Microsoft covered cloud services are audited at least annually against the SOC reporting framework by independent third-party auditors. The audit for Microsoft cloud services covers controls for data security, availability, processing integrity, and confidentiality as applicable to in-scope trust principles for each service. Microsoft has achieved SOC 1 Type 2, SOC 2 Type 2, and SOC 3 reports.

### Certificates

Secure Sockets Layer (SSL) and Code Signing certificates are provided and managed by the client with assistance provided by the Gimmel System Engineer Team.

### Information Protection and Encryption

#### Transport Layer Security TLS (Encryption-in-transit)

SQL Database secures customer data by encrypting data in motion with Transport Layer Security. SQL Server enforces encryption (SSL/TLS) at all times for all connections. This ensures all data is encrypted "in transit" between the client and the server.

#### Transparent Data Encryption (Encryption-at-rest)

Transparent Data Encryption (TDE) for Azure SQL Database adds a layer of security to help protect data at rest from unauthorized or offline access to raw files or backups. Common scenarios include datacenter theft or unsecured disposal of hardware or media such as disk drives and backup tapes. TDE encrypts the entire database using an AES encryption algorithm, which doesn't require application developers to make

any changes to existing applications.

In Azure, all newly created SQL databases are encrypted by default and the database encryption key is protected by a built-in server certificate. Certificate maintenance and rotation are managed by the service and requires no input from the user.

### Identity Management Integration and Single Sign On (SSO)

Gimmel Physical can integrate with the following Identity Management/Single Sign On (SSO) technologies:

- Okta
- Azure Active Directory (AD)
- Microsoft Active Directory Federation Services (ADFS)
- SAML2-based Identity Providers (IdP)

## Installation Components

Component	Description	Deployment Unit
Gimmel Physical Web Access	Software to access Gimmel Physical application.	Modern Web Browser
ScannerConnect (optional)	A standalone application that provides an interface for the Zebra DS4608/4278 barcode scanners.	Client Workstation
Email Notifications	Software to send email messages from Gimmel Physical application.	SendGrid
PortableConnect (optional)	A standalone application that provides an interface for the Zebra TC52 barcode scanner.	Client Workstation
RFIDConnect (optional)	A standalone application that provides an interface for the Zebra TC52 with RFID Sled.	Client Workstation

## Additional Supporting Applications

### Optional Software:

- **FileConnect:** a Windows service that interfaces with Gimmel Physical web services to push data from network file shares or local folders to Gimmel Physical for storage. A UI is provided to configure the service.
- **ScannerConnect:** a standalone application that allows users to transfer items in Gimmel Physical. Used fortethered scanner devices to avoid issues with ActiveX which is specific to the Internet Explorer web browser and nearing end-of-life.
- **RFIDConnect:** a standalone application that will listen to an RFID reader and relay the scans to Gimmel Physical via Gimmel Physical web services. Can also be used to program/reprogram RFID tags.



- **PortableConnect:** An Android application that allows the Zebra TC52 mobile computer device to collect scans and perform transfers in Gimmel Physical.

### Gimmel Physical REST API

An extensive library of REST-based web services is available for consumption.

## Device Hardware

### Supported Devices:

Device	Description	Specifications
<b>Zebra DS4608</b> (Tethered Scanner)	A quick way to check in and out items within the ScannerConnect application, normally used at a file room checkpoint.	<ul style="list-style-type: none"> <li>• USB port</li> <li>• Direct-to-Serial cable for the scanner, with a COM-to-USB adapter</li> <li>• Driver for the adapter; PC recognize the scanner as a COM port connection</li> <li>• 6ft range tethered scanner</li> <li>• ScannerConnect application</li> </ul>
<b>Zebra LI4278</b> (Wireless Scanner)	A quick way to check in and out items within the ScannerConnect application, normally used at a file room checkpoint. The base is connected to the computer and the scanner has a limited range.	<ul style="list-style-type: none"> <li>• USB port</li> <li>• Direct-to-Serial cable for the scanner, with a COM-to-USB adapter</li> <li>• Driver for the adapter; PC to recognize the scanner as a COM port connection</li> <li>• 80-foot range</li> <li>• ScannerConnect application</li> </ul>
<b>Zebra TC52</b> (Mobile Scanner)	This scanner is often used in a warehouse, office building, or campus environment to both check in and out items, as well as reconcile the Gimmel Physical database with where items are located.	<ul style="list-style-type: none"> <li>• USB port for the dock</li> <li>• PortableConnect application</li> <li>• Optional: RFID Sled and RFIDConnect application</li> </ul>
<b>Zebra FX7500 RFID Fixed Reader</b>	Uses RFIDConnect to read RFID tags that get swiped across an antenna to check items in and out in Gimmel Physical.	<ul style="list-style-type: none"> <li>• Ethernet cable for the reader</li> <li>• RFIDConnect installed either on an individual PC or server that has internet access</li> </ul>