

Biztalk Integration Services

Environment

SANParks Azure Integration Services



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Introduction

Azure Integration Services is a suite of cloud-based services provided by Microsoft Azure that enables SANParks to integrate and connect different applications, data, and services across on-premises and cloud environments. It provides a comprehensive set of tools and services that facilitate the development, deployment, and management of integration solutions for SANParks of all sizes.

The organization entered into an Enterprise Agreement (EA) with Microsoft for activation and licensing of several services such as Azure Logic Apps, Azure Service Bus, Azure Event Grid, Azure API Management, and Azure Functions. products utilized in the SANParks environment.

SANParks currently has more than 25 services within the BizTalk environment, which are utilized by 7 different Applications and systems.

Purpose

This document provides an overview of all the Azure Integration Services offered to benefits SANParks to integrate their applications and services.

Definitions, Acronyms and Abbreviations

Service

A service is a network-enabled entity that provides a specific capability. A service is Defined in terms of the protocol one uses to interact with it and the behaviour expected in Response to various protocol message exchanges (i.e., service = protocol + behaviour) (From "Physiology of the Grid"). Within Grid Lab however the following service

Web Service

The term Web services describes an important emerging distributed Computing paradigm [with] focus on simple, Internet-based standards (e.g., extensible Mark-up Language: XML [...]) to address heterogeneous distributed computing. Web Services define a technique for describing software components to be accessed, methods for accessing these components, and discovery methods that enable the identification of relevant service providers.

SANParks

South African National Parks

Number of Systems.

Although the number of Active Applications utilising BizTalk Biztalk 2013R2 soon to be upgraded to Biztalk 2020 environment is 7 applications and the total number of information calls channelled through the environment is estimated to be **1 404 068** transactions combined from all the systems with a total of 45 webservices on the production environment. The applications are:

- **AppWorks:** This is a BPM tool used to manage processes in SANParks. Metastorm is the legacy system which is being replaced by AppWorks.
- **Room Seeker:** Is an online accommodation booking system.
- **SANParks FTP:** This is a file system used to store information SANParks.
- **Great Plains:** This is the ERP system used by SANParks.
- **FNB FTP:** This service provides a file store on which a bank places its statements.
- **Active Directory:** This service provides user information relating to authentication of pc users in the SANParks. domain\system.
- **SAGE VIP:** This is SANParks HR system. All employees HR information and Payroll information is on this system.

Production Solution details

The Following software details are in the SANParks environment.

Enterprise Service Bus Architecture

- Biztalk

Solution Architecture for Dev/QA and Production Environment

• Windows Server 2019
• NET Framework 4.7.2 (minimum)
• Microsoft Visual C++ 2015-2019 Redistributable Package • Microsoft OLE DB Driver for SQL Server • WinSCP • Biztalk Server 2020 installation files

Databases details for Dev/QA and Production Environment

- Windows Server 2019
- MS SQL Server 2019

Production Webservices

- Cost Centres Web Service
- Employee Roles Web Service
- Employees View
- Employees Web Service
- Leave Types
- Open Projects

• Aggregation Services
o CustomerProfileIntegration/CustomerProfileService.
o CustomerTypeIntegration/CustomerTypeService.
o CustomerTypeGroupsIntegration/CustomerTypeGroupsService.
o CustomerAggIntegration/CustomerAggService.
o ReservationsIntegration/ReservationsService.
o ReservationCostsIntegration/ReservationCostsService.
o ReservationDetailsIntegration/ReservationDetailsService.
o ClustersIntegration/ClustersService.
o InteractionsIntegration/InteractionsService.
o InteractionTypesIntegration/InteractionTypesService.
o OperatorsIntegration/OperatorsService.
o RefundsIntegration/RefundsService.
o ResortsIntegration/ResortsService.
o SubscriptionsIntegration/SubscriptionsService.?wsdl
o SubscriptionCategoriesIntegration/SubscriptionCategoriesService.
o TicketsIntegration/TicketsService.
o TicketTypesIntegration/TicketTypesService.
o TransactionsIntegration/TransactionsService.
o CustomerProfileReadFilter/CustomerProfileReadFilterService.
o BeneficiaryIntegration/BeneficiaryService.
• CRM Services
o C360Customer/C360CustomerService.
o C360CustomerProfile/C360CustomerProfileService.
o C360CustomerAgg/C360CustomerAggService.
o C360ReservationDetails/C360ReservationDetailsService.
o C360Beneficiary/C360BeneficiaryService.
o C360Interactions/C360InteractionsService.
o C360Reservations/C360ReservationsService.
o C360Refunds/C360RefundsService.
o C360Subscriptions/C360SubscriptionsService.
o C360Tickets/C360TicketsService.
o C360TicketTypes/C360TicketTypesService.
o C360TransactionsLP/C360TransactionsSrv.
o C360CustomersAggLP/C360CustomersSrv.
o C360CustomersLP/C360CustomersSrv.
o C360InteractionsLP/C360InteractionsSrv.
o C360SubscriptionCategoriesLP/C360SubscriptionCategoriesSrv.
o C360SubscriptionsLP/C360SubscriptionsSrv.