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| **Pre-Migration Azure Cloud Assessment Report**  **Application: SOTI** | **Revision:** | 0.1 |
| **Author:** | HCL America Inc. |
| **Effective Date:** | July 20, 2020 |
| **Page:** | 1 of 8 |
| **Assessment Period** | **July 2020** | |

# Application Introduction

SOTI is a COTS application which acts as a hub for RF Guns across various warehouses to connect to. It uses RF Gun Management Console and configuration tool for Manufacturing devices.

# Migration Strategy

**SOTI**

**Target Platform**

**Current Platform**

Applications

Treatment

**Final**

Rehost Windows Server 2012 R2 Standard AS IS to Azure Cloud with extended security updates

**Final**

**OS:** Windows Server 2012 R2

**DB**: MS SQL Server 2014

**App**: MobiControl v12.4.0.30777

**Dev Tech:** .NET FW

**Web Server:** NA

**OS:**

Windows Server 2012 R2

**DB**: MS SQL Server 2014

**App**: MobiControl v12.4.0.30777

**Dev Tech:** .NET FW

**Web Server:** NA

**COTS**

Azure Cloud

On-Premise

**Treatment**

**REHOST**

# Application Assessment Final Ratings

SOTI application is classified as ‘**Medium** on the below highlighted complexity parameters, and also Based on the [SDM responses](#_Appendix:_Questionnaires_Responses), and [Cloudscape data input](#_Appendix:_CloudScape_Data).



# Application Current & Target Landscape

|  |  |
| --- | --- |
| Current Technology Landscape **OS**: Windows 2012 R2 Standard  **DB**: MS SQL Server 2014  **Dev Tech**: SOTI MobiControl v12.4.0.30777  .NET FW  **Web Server**: NA | Target Technology Landscape **OS:** Windows 2012 R2 Standard  **DB:** MS SQL Server 2014  **Dev Tech:** SOTI MobiControl v12.4.0.30777  .NET FW  **Web Server**: NA |

# Application Characteristics

1. Is a COTS application
2. High Impact on application outage
3. More RF Guns expected to increase in the future
4. Uses Browser based method to connect SOTI App. Admin and few other users connects using RDP as well.
5. Has 1 PROD Server Environment only.
6. The application would only be used by IT Administrators in charge of the RF Guns across SN. Around 10 Admin Users.
7. Latency Sensitive.
8. SOTI provides its own cloud with the same permissions, usernames and passwords used on the on-premise server. Their Cloud service is AWS.
9. Nightly Downtime is acceptable for Azure Migration.
10. There are 200+ RF Guns (Active + Inactive), that are connected to SOTI, SOTI manages them. RF Guns passes information (data) to SAP from Warehouse. (NO SOTI dependencies). All this communication happens through 'SNRF' Wi-Fi at warehouse.
11. Config files, profiles from SOTI can be deployed to RF Guns. All these files are stored within OS Platform.
12. Application based. (access granted based on request) locally.
13. SOTI application uses fully qualified Domain names connect to devices (via Wifi SNRF network).
14. SOTI possesses the option to generate custom reports

# Application Assumption

1. HTTPS certificate, either from a CA or from internal CA.
2. There is a possibility that new RF Guns that will be connected to new warehouses or installed in the already existing warehouses will be connected to SOTI.
3. Active-Passive Fail-Over. No DR environment though.
4. Assuming MS SQL Database Server 2014 version is used for SOTI and this is also hosted on the same Production Server VM - USMEM-SMAPPVW35.

# Application Challenges/Risk

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| --- | --- |
| Risk | Mitigation |
| SOTI MobiControl is currently in AWS Cloud. | RF Guns connecting from different devices to SOTI in cloud can have latency issues. Challenge to mitigate connectivity with RF gun with SOTI (latency) if on Cloud. |
| RF Guns connects to SOTI and passes data to SAP from warehouse. | There is no direct dependency to SOTI. But this will be a Hybrid cloud migration approach, since SAP is on-prem. |
| RF handheld devices will not receive the correct ITE information. RF handheld devices will not receive a profile or updates. | This is to be validated during Azure migration |

# Critical Factors Considered

|  |  |
| --- | --- |
| Application Name | SOTI |
| Application Type | COTS |
| Critically | Medium |
| SDM Opinion | Rehost AS IS |
| Authentication | Application Based Access Locally |
| Authorization | Role-Based |
| OS | Windows Server 2012 R2 |
| DB | MS SQL 2014 |
| Servers | 1, 1 for PROD (APP + DB) |
| DR | Not applicable |
| DR Details | DR Capability: No DR Last date: DR RPO: 48 hours DR RTO: 1: None - Best Effort |
| Dependency | Connectivity to SAP System & RF Guns |
| SLA | % Availability > 99.5 % - 24X7 hrs |
| User Access Method | Accessed by only Admins in-charge of RF Guns across SNI |
| Vendor | ADC |
| Customization | Hybrid |
| Architecture | No |
| License Model | Application Based |
| Batch | None |
| SOX+GxP | No |
| Multi Lingual | No |
| Certificates | HTTPS Certificates managed by Vendor |
| Technology | SOTI MobiControl v12.4.0.30777 .NET FW |
| Region | USA |

# High Level Treatment

| # | Treatment Steps |
| --- | --- |
| 1 | Update PROD IP to dependent vendor/technical team (if any) |
| 2 | PROD: Azure Container/VM/Server provisioning |
| 3 | PROD Application Downtime communication |
| 4 | SOTI Application Data Export / Backup |
| 5 | PROD Server Image / Replication / Backup |
| 6 | Full Server backup |
| 7 | PROD: Server/Application image copy/replication |
| 8 | Application User Creation (if any) – Application Based access Locally |
| 9 | Sanity test: Connection, RDP login, Application Launch |
| 10 | Application Data Import |
| 11 | Application Testing from Vertical Delivery Team (SDM) |
| 12 | PROD Infra Signoff |
| 13 | Application Team Signoff |
| 14 | Post Migration Warrantee Support (2 weeks) |
| 15 | Warrantee Completion Signoff |

# Appendix: Cloudscape Data Inputs

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| --- | --- | --- | --- |
| USMEM-SMAPPVW35 | 10.131.151.79 | Production | Windows 2012 R2 Standard |



# Appendix: Questionnaires Responses

