Mobile Communications Services

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1 Executive Summary

1.1 Purpose
The Department of Management Services (Department) has gathered information needed for the Department and key stakeholders to make an informed decision related to the Department’s options for the procurement of the next generation of mobile communication services (MCS). The goal of the information gathering was to develop a business case providing a recommendation for the best and most appropriate business model and procurement options that provide long-term value to the state.

Inspired Technologies, Inc. was contracted to assist the Department’s development of this business case in accordance with Section 287.0571, Florida Statutes (F.S.). The statute requires a business case to evaluate feasibility, cost-effectiveness, and efficiency before the state agency proceeds with any outsourcing of services.

This business case focuses specifically on three key elements of MCS: (1) current technology options for mobile communication services in parallel with the State needs; (2) data analysis on industry business models which are optimal for next generation MCS; and (3) best practice recommendations for implementation of such technology and the appropriate business model. The current MCS contracts are with multiple service providers to provide wireless voice and data services and equipment, including data cards, tablets, telemetry devices, feature phones, smartphones, and Push to Talk (PTT) phones.

In summary, this document provides substantive information that can be utilized to make informed decisions about the future business model and procurement options of MCS.

1.2 Detailed Description of Services

Section 287.0571 (4)(a), F.S. - A detailed description of the service or activity for which the outsourcing is proposed.

The objective of MCS is to provide SUNCOM customers the ability to purchase wireless voice and data services and equipment, including options for Public Safety Customers. SUNCOM customers are a combination of State of Florida agencies, and Other Eligible Users (OEU), as defined in Chapter 282, F.S. SUNCOM customers are currently able to purchase from multiple service pricing plans which include voice per minute rates for in-state and out-of-state calls, fixed rate plans, unlimited call packages, data-only plans, voice-only plans, voice and data bundled plans, pooling and non-pooling plans, and group mobile-to-mobile rate plans. SUNCOM customers are able to purchase equipment which includes select free standard cell phones, data-cards, hotspot devices, and PTT phones with associated monthly service plans. Additionally, there are options for discounted phones, smartphones, and data-only devices when required. SUNCOM customers are able to purchase accessories including hands-free kits, belt clips and holsters, cases, face plates, batteries, chargers, vehicle power adapters, and car kits.
1.3 Current Service Performance

Section 287.0571 (4)(b), F.S. A description and analysis of the state agency’s current performance, based on existing performance metrics if the state agency is currently performing the service or activity.

In January 2012, the Department entered into contracts, through a competitive procurement, with AT&T Mobility, Sprint, and Verizon Wireless to establish MCS. The total spending under these contracts is approximately $82 million annually. Verizon Wireless accounts for $70 million, AT&T Mobility accounts for approximately $7 million, and Sprint accounts for approximately $5 million.

Having contracts with three services providers enables a SUNCOM customer to choose the service provider which offers the customer the best options. Wireless service geographic coverage varies by service provider, for example, and letting the customer decide which coverage is most beneficial is a great advantage of the multi-contract procurement model. Also, the service providers are incentivized to continue improving their service offerings and adjust pricing to attract and keep customers.

1.4 Goals for Proposed Outsourcing

Section 287.0571 (4)(c), F.S. The goals desired to be achieved through the proposed outsourcing and the rationale for such goals.

The Department’s goals to be achieved in future contracts are:

- Determine the best long-term value to the State;
- Maintain cost structures with improved service integration;
- Ensure adaptability for future technology, customer needs, and evolving industry standards; and
- Provide the highest levels of customer service.

The current MCS portfolio is utilized throughout the state. As a result, agencies have built processes and dependencies that rely on the portfolio offering that is in service today. Agencies use of these services vary widely depending on the specific mobile communications needs of each specific agency. This requires the MCS vendors to offer a broad array of products and services.

1.5 Outsourcing Authority

Section 287.0571 (4)(d), F.S.- A citation to the existing or proposed legal authority for outsourcing the service or activity.

Pursuant to Section 282.703, F.S., the Department is to design, engineer, implement, manage, and operate through state ownership, commercial leasing, contracted services, or some combination thereof, the facilities, equipment, and contracts providing SUNCOM Network services, and is to develop a system of equitable billings and charges for telecommunications services. The Department’s Division of State Technology (DST) is tasked with this mission of providing superior telecommunications services more cost effectively to state and local governments, educational institutions, libraries, and non-profit organizations by achieving economies of scale with enterprise planning and procurement.
1.6 Descriptions of Available Options

Section 287.0571 (4)(e), F.S. - A description of available options for achieving the goals. If State employees are currently performing the service or activity, at least one option involving maintaining state provision of the service or activity shall be included.

This business case examines options specifically for the scope of continued support, features, and offerings following the expiration of the current MCS contracts in January 2022. The options evaluated are insourcing, performing an outsourced competitive solicitation, and combinations of both outsource and insource. The options are:

- **Insource** - Is an organization’s performing a service internally. Insourcing is a business decision that is often made to maintain control of critical functions or competencies that are essential to the organization’s mission.

- **Outsource** - Is the contracting out of a service to a third party. Outsourcing can be a way to take advantage of third-party experience and efficiency.

- **Combinations of Insourse and Outsource** - Services provided by a combination of existing state employee full-time equivalent (FTE) positions, with vendors providing elements of operations that fall outside of the administrative, physical, or technical capabilities of the Department.

This business case examines a competitive procurement option, an Invitation to Negotiate. In Florida, competitive procurement is governed by Section 287.057, F.S., and Rule 60A-1, Florida Administrative Code. The three types of competitive procurement are:

- **Invitation to Bid (ITB)** – Used when a state agency provides all technical specifications and awards on lowest price.

- **Request for Proposal (RFP)** – Used when a state agency has determined it is not practicable to use an ITB. The state agency provides all technical specifications, and responses are evaluated on the vendor’s proposed services and price.

- **Invitation to Negotiate (ITN)** – Used when a state agency determines that negotiations with one or more vendors may be necessary to enable the state agency to receive the best value. The best value is based on factors such as price, quality, design and workmanship. This option works best when highly technical or complex services are being acquired. The price structure for services is often negotiated. The current MCS contracts were solicited as an ITN.

1.7 Recommendation Methodology

The Department has multiple contracts for MCS that are nearing expiration. This business case examines options and business models for the evolution of MCS, and the advantages and risks of each. The business case takes into consideration the statutory requirements and evaluates whether to insource these services, outsource these services, or to provide these services using a combination of existing Department resources and outsourcing.
Throughout the document, there are numerous recommendations and discussion points for consideration. The business case recommendations can be found in Section 7 Business Case Recommendations Summary.

2 Background

Mobile Communication Services Contracts and Portfolio of Products & Services (Prior to 2011):

Multiple contracts were made available to SUNCOM customers, separately offering wireless data and voice services:

1. Department of Management Services, State Purchasing, State Term Contract
   - Wireless Voice Services Contract with Verizon Wireless for cell phones voice only services.
2. Western State Contracting Alliance, Alternate Source Contract
   - Wireless Voice Services –Contract with AT&T and Sprint/Nextel for cell phones voice only services.
3. Department of Management Services, Division of State Technology, Enterprise Contract
   - Wireless Data Services– Contracts with AT&T Mobility, Sprint and Verizon Wireless for wireless data services (air cards)

Mobile Communication Services Contracts and Portfolio of Products & Services (2012 - Present):

Multiple contracts are made available through the Department’s SUNCOM offerings. The current MCS service providers are AT&T, Sprint, and Verizon. Each of these contracts provide for the purchase of wireless voice and data equipment, services, and accessories. Public safety options, discussed further in Section 3.9 below, are available to DMS Customers. MCS services are interoperable with other SUNCOM services, including network integration with MyFloridaNet. State agencies have the option to route MCS traffic through their security perimeter to perform additional screening and filtering. The contracts contain stringent Service Level Agreements (SLAs) to manage vendor’s service performance and to perform Key Performance Indicators measurements.

These contracts provide for the purchase of wireless voice and data equipment, services for data-cards, tablets, telemetry devices, feature phones, Smartphones, BlackBerrys, PTT phones and services, and accessories. Service pricing plans include voice per minute rates for in-state and out-of-state calls, as well as several fixed rate plans, unlimited call packages, data-only plans, voice-only plans, voice and data bundled plans, pooling and non-pooling plans, and group mobile to mobile rate plans. These contracts have been renewed to January 2022.
3 Revenue, Technology, and Business Model Analysis & Recommendation

3.1 Description of Current Contract Revenue

The financial analysis below is based on total customer revenue.

Top 20 Customers in Total Revenue:

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<td>$994,134</td>
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<tr>
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### Top 20 State Customers in Total Revenue:

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<td>State</td>
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<td>$569,949</td>
<td>$556,825</td>
<td>$325,349</td>
<td>1,737,677</td>
</tr>
</tbody>
</table>

*Figure 2 – Top 20 State Customers in Total Revenue*

*Top 20 Other Eligible Users (OEU) in Total Revenue:*

- FLORIDA DEPARTMENT OF CORRECTIONS - DISTRICT 4
  - State $ 24,085 $ 154,936 $ 512,859 $ 691,880
- FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES
  - State $ 81,873 $ 208,520 $ 226,449 $ 125,385 $ 642,227
- DEPARTMENT OF CHILDREN AND FAMILIES - SUNCOAST REGION
  - State $ 65,799 $ 152,824 $ 195,937 $ 93,625 $ 490,880
- DEPARTMENT OF CHILDREN AND FAMILIES - OFFICE OF FINANCIAL SUPPORT
  - State $ 77,026 $ 184,647 $ 208,562 $ 470,236
- DEPARTMENT OF CHILDREN AND FAMILIES - CHILDREN'S NETWORK SOUTHWEST
  - State $ 72,916 $ 128,726 $ 163,996 $ 442,280
- DEPARTMENT OF LEGAL AFFAIRS
  - State $ 62,409 $ 166,672 $ 168,173 $ 93,625 $ 490,880
- DEPARTMENT OF CHILDREN AND FAMILIES - OFFICE OF FINANCIAL SUPPORT
  - State $ 72,916 $ 128,726 $ 163,996 $ 442,280
- DEPARTMENT OF CHILDREN AND FAMILIES - NORTHWEST REGION
  - State $ 60,386 $ 139,973 $ 159,447 $ 73,741 $ 433,547

**GRAND TOTAL**

$3,958,342 $8,443,569 $11,172,809 $5,290,202 $28,864,922
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<th>Total Revenue</th>
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**Grand Total**  

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*Figure 3 – Top 20 OEU Customers in Total Revenue*
3.2 Mobile Communications Service Technology - Networks

The wireless industry consistently experiences increasing demand for network functionality. With increasingly versatile internet-enabled equipment such as smartphones, televisions, personal computers, and tablets, consumers have a growing need and demand for immediate access to voice, video, and data services.

This demand is driving the wireless industry to support new levels of enterprise productivity for enhanced mobile solutions. Platforms are increasingly open, supporting an explosion of new applications and services directly to the mobile user. Service provider options are multiplying each day as businesses find themselves in a race to capture market share and revenue from new services. Businesses are responding to demand by boosting capabilities and introducing new technology as quickly as possible. Capital investment in network development and infrastructure has risen to unprecedented levels. This includes upgrading core network transport capacity, growing high-capacity access in major metropolitan areas, extending fiber optic lines closer to consumers, adding high-speed residential broadband technology to legacy phone networks, and improving content serving and distribution technologies.

The wireless industry is currently using Fourth-generation, Long-Term Evolution (4G LTE), technology, as defined by the radio sector of the International Telecommunication Union (ITU-R). These standards were set in March 2008. For mobile use, including smartphones, and other internet-enabled equipment, connection speeds need to have a peak download speeds of at least 100 megabits per second, and for more stationary uses such as mobile hotspots, at least 1 gigabit per second. Global capital spending on fifth-generation (5G LTE) technology is increasing much like the marketplace experienced with the evolution of 4G LTE technology. Today, 4G LTE provides the framework for the fastest connection available for wireless networks, which varies based upon wireless carrier and service topology. As the next evolution comes to reality, increased connection speeds and capabilities will improve as well.

5G LTE technology will utilize unique radio frequencies not used currently in 4G. 4G networks use frequencies below 6 GHz, and 5G will likely use extremely high frequencies in the 30 GHz to 300 GHz range. These higher frequencies are less congested with existing cellular data and will support a larger capacity for data. At its peak, 5G can be up to 20 times faster than 4G. Limited 5G demonstrations have taken place, with carriers anticipating the 5G release in test markets in late 2018, increasing the release in 2019 through 2020.

Some projections forecast that demand for additional network capacity will increase 25-fold over the next 3 years. Each major improvement in network speed and capacity generates new services, devices, and applications that raise consumer expectations, using up the added capacity and creating the requirement to add even more capacity. For telecommunications, the standard will be continuous waves of increased demand and increased network capacity.

Improved coverage throughout the state remains a high priority for customers. Customers expect coverage not only in metropolitan areas with multiple carrier options, but also in rural and coastline areas. Currently service is provided by multiple carriers utilizing 3G and 4G LTE technology. Where coverage challenges exist in rural areas, coverage may be reduced to a
single carrier providing 3G technology, which does not provide the latest technical and is sometime limited in data service capabilities, meaning data applications on smartphones do not work as expected.

Coupled with the demand for improved rural coverage is the demand for improved coverage within buildings. A barrier to this is building penetration, which is continually hampered by thick concrete and steel structures. To address this issue, many buildings are being equipped at the time of new construction or retro fitted with Distributed Antenna Systems (DAS) to extend coverage inside a building. As the evolution from 4G to 5G takes place over the coming years, the state should see improvements in this particular area due to the increased density of towers and small cell deployments, which is a requirement for the implementation of 5G technology.

3.3 Mobile Communications Service Technology - Equipment

Equipment available under the current MCS contracts includes cellular phones, smartphones, data-cards, tablets, telemetry devices, feature phones, and push-to-talk phones. Associated accessories are also available, which includes hands-free kits, belt clips and holsters, cases, face plates, batteries, chargers, vehicle power adapters, and car kits.

During the duration of new MCS contracts, equipment must be compatible with the latest generation of wireless communication. The Department will need to ensure access to future releases of cellular phones and other internet-enabled equipment are compatible with 5G networks and other future generations of wireless networks. This should include devices that are band 14 enabled or otherwise appropriate for Public Safety Customers.

As the industry continues to see growth and development of new cellular phone features with other internet-enabled technology, emerging technologies may be incorporated into future cellular phone releases including facial recognition technology, augmented reality, improved durability, and longer battery life1.

3.4 Mobile Network Operator versus Mobile Virtual Network Operator

A mobile network operator (MNO) is a wireless telecommunications provider that owns, manages, and controls all elements necessary to implement, sell, and deliver mobile services to the customer. These elements include radio spectrum allocation, network infrastructure, billing support resources, customer service resources, handset management, provisioning of software, and distribution channels for product and service delivery. In addition to obtaining market share by offering its own services an MNO may also allow or sell access to network services at wholesale rates to mobile virtual network operators (MVNO).

MVNO platforms do not supply spectrum, network routing and interconnectivity, but they provide application services, customer care, billing, handset management, and distribution channels for products and services. Also, commonly handled within the MVNO framework are “second brands” of incumbent MNOs and “branded resellers” that resell an MNO’s products and services.

under their own brand and are essentially a specialized marketing and sales distribution channel.

The current DMS MCS model is essentially an MVNO hybrid of second brands and branded reseller. DMS acts as a branded reseller for all products in the MCS platform except for air card services. For the air card services platform DMS provides customer support, billing, handset management, and distribution and sales.

3.5 Leverage Existing State Infrastructure
Currently there is no state telecommunications infrastructure that is used for the mobile communication services platform.

3.6 Interoperability
Network interoperability has become increasingly important in the telecommunications industry. The basic idea behind interoperability is the ability for two or more networks, systems, devices, applications or components to communicate. With respect to the telecommunications industry, interoperability refers to the interworking of telecom services over multi-vendor, multi-carrier inter-connections. As networks continue to grow and diversify with the 5G and IoT era on the horizon, it is important they can interoperate to enable end-to-end communication.

Devices can interoperate with other devices either by adhering to a common protocol standard, abiding by a published interface standard or situating a gateway between them capable of translating each device’s protocols. These common protocol standards serve as a platform for manufacturers, which note all the necessary components for interoperability into various systems and products. Although interoperability has improved in the telecommunications industry, service providers are continuing to work towards interconnection of 5G and IoT devices through network infrastructure enhancement and uniformity of standards.

3.7 Security
Service Providers must provide device and network security, and responsiveness to ever changing security risk in today’s telecommunication environment. Threats to the government’s use of mobile devices are real and exist across all elements of provider networks and mobile devices. The stakes for government users are high. Government mobile devices — despite being a minor share of the overall market — present an avenue to attack back-end systems containing data on Floridians in addition to sensitive information relevant to government functions. Mobile devices hold significant amounts of sensitive information, whose compromise could adversely impact State and OEU operations. Additionally, databases controlled by the State and OEUs hold tremendous amounts of personally identifiable information that could be used to compromise financial wellbeing, privacy, or identity.

Threats range from advanced attacks, to organized crime using advanced fraud technologies, to simple theft of mobile phones. The threats to government users of mobile devices include the

same threats that target consumers, e.g., call interception and monitoring, user location tracking, attackers seeking financial gain through banking fraud, social engineering, ransomware, identity theft, or theft of the device, services, or any sensitive data. Government users may be subject to additional threats simply because they are government employees.

Areas of security vulnerability include:

- Mobile device technology stack, including mobile operating systems and lower level device components
- Mobile applications
- Networks (e.g., cellular, Wi-Fi, Bluetooth) and services provided by network operators
- Device physical access
- Enterprise mobile services and infrastructure, including mobile device management, enterprise mobile app stores and mobile application management

Guidance and best practice is identified for providers and customers through the U.S. Department of Commerce, National Institute of Standards and Technology, other government agencies, non-government organizations and private industry. Although security has improved, significant improvements still need to be made in this area as well as hardening on the new 5G network protocols, which are currently in development³.

3.8 Operational Support

Operational support has transformed to meet the consumer’s increasing needs related to increasing complex technology. Many service providers are now able to allow customers to self-manage account profiles and utilize self-service tools via online portals. This allows customers to self-manage inventory management, security management, policy management, and support management, which is not always appropriate for all customers depending on their technical staff and complexity of their needs. Customer care and operational support is provided in all service levels of the MNO and MVNO framework except for the branded reseller platform which focuses only on distribution.

The Department should require operational support for all operational needs including billing and technical support. The expectations of a service provider include trouble ticket systems, access to skilled technicians, access to skilled billing staff, policy enforcement, quality control and assurance, monitoring tools, and performance reporting. Service provider should allow customers the option to self-manage accounts. Service provider should function to a world class standard of customer focused service delivery, consistently striving for customer satisfaction that evolves with the technology over time.

3.9 Public Safety

Mobile technology continues to play a key role in today's public safety network. Service providers are working with the public safety community on enhanced emergency and first responder features.

FirstNet was established by the Middle Class Tax Relief and Job Creation Act of 2012 (“Act”). Under the Act, FirstNet is responsible for ensuring that all components of the Nationwide Public Safety Broadband Network (NPSBN), are built, deployed, operated, and maintained. The NPSBN provides services to public safety entities throughout the nation.

FirstNet is an independent federal authority with a statutory duty and responsibility to take all actions necessary to ensure the building, deployment, and operation of the NPSBN based on a single, national network architecture.

Mobile providers are now working to build out public safety networks, including FirstNet, dedicated to first responders. Key elements of the public safety networks are developed to enable first responders to communicate and coordinate during emergencies, large events, or other situations where commercial networks can become congested. Therefore, focus has been placed on priority and preemption, which allows providers to shift commercial traffic to other areas of their respective networks, allowing first responders seamless communication.

3.10 Compliance

The Federal Communications Commission (FCC) mandates all mobile network operators and all mobile virtual network operators comply with standards and requirements defined for all telecommunications service providers. Compliance with all Federal Americans with Disabilities Act (ADA), Health Insurance Portability and Accountability Act (HIPAA) and Communications Assistance for Law Enforcement Act (CALEA) must be maintained. In addition to Federal mandates, state and local regulatory requirements must also be met to provide services within a given geographic region as appropriate.

3.11 Recommended Communication Services Technology

The following recommendation is provided for the MCS platform:

1. The Department should embrace solutions that allow the MCS contracts to easily evolve with changing technology and industry offerings without delays in service offerings.

2. The Department should ensure providers are ready to offer mobile communication network capabilities to all users with minimal cost related to new mobile devices and demonstrate a commitment to offer the latest generation of technology throughout the life of the contract.
3. The Department should work with service providers to ensure network and mobile device security continues to develop in accordance with security related standards and best practices.

4. The Department should support customers in managing security practices within their control.

5. The Department should ensure providers are able to offer a wide variety of equipment and accessories, fulfilling the diverse needs of the MCS customers.

6. The Department should ensure providers are able to offer world class customer service.

7. The Department should ensure public safety spectrum networks are offered by service providers to appropriate eligible users.

4 Market Conditions and Trends

Section 287.0571 (4)(g), F.S. A description of the current market for the contractual services that are under consideration for outsourcing.

4.1 Introduction

This analysis is intended to meet the statutory requirement of Section 287.0571(4)(g), F.S., which requires “a description of the current market for the contractual services that are under consideration for outsourcing.” Information used for this analysis was gained through a number of methods and sources including:

- Discussions with the Department’s staff and management;
- Review of extensive data and information provided by the Department regarding SUNCOM operations and billing;
- Review of current MCS contracts including amendments;
- Research on evolving mobile communication service offerings of large providers;
- Review of industry research

4.2 Market Conditions and Trends - Networks

The mobile communications industry has evolved drastically over the past 10 years as data driven customers with numerous technical devices consume more bandwidth. During this time, mobile network operators (MNO) have expanded their service offerings and overhauled their price plans to meet explosive demand, while rising capital expenditures underline the ongoing need to upgrade network capabilities. The mobile communications industry will continue to evolve over the next few years and beyond. Boundaries will blur among product categories as a
range of industry actors shape customer demand. New partnerships will play an ever more important role in driving new technology and innovation.

The push for the next evolution of mobile technology is the consumers desire to seamlessly transition between voice and data capabilities ubiquitously as they move from location to location utilizing mobile and Wi-Fi services. As seen in the migration from 3G to 4G, the 5G technology is predicted to drastically increase data usage per user. Future networks will require fast rollouts, significant capacity, agile, flexible, on-demand and software-oriented telecommunication technologies.

4.3 Market Conditions and Trends - Equipment

Demand for internet-enabled equipment, including smartphone, tablets, laptops, and public safety equipment, continues to grow. Market penetration by cheaper imports is increasing. These imports are both manufactured and distributed by foreign companies, as opposed to domestic smartphones, which are still manufactured by foreign companies but marketed and distributed by domestic companies. Foreign manufacturers are actively producing lower-priced smartphone models to siphon off a share of the lucrative US smartphone market. Thus, buyers have a wider range of products and prices to choose from, which boosts competition and buyer power. In addition, the influx of imports has forced larger suppliers to develop their own cheaper alternatives to remain competitive at the low end of the market.

Buyers of internet-enabled equipment have also been benefiting from low price volatility during the past three years. Although smartphones are costly, low price volatility indicates that buyers need not worry about sudden price shifts. Furthermore, even though vendors release newer and costlier versions of smartphones annually, increasing market saturation will limit price growth in the coming years as consumers become less willing to pay more for cosmetic updates.

4.4 Market Conditions Recommendations

The following recommendations are based on market conditions:

1. The Department should consider established wireless carriers, and wireless carriers that are emerging in the market that could possibly provide lower cost options.

2. The Department should consider tiered volume-based options with wireless carriers, creating the opportunity for discounts.

3. The Department should consider a wide range of equipment to cover basic and high-end mobile capabilities.

5 Options & Cost Benefit Analysis

Section 287.0571 (4)(h), F.S. A cost-benefit analysis documenting the direct and indirect specific baseline costs, savings, and qualitative and quantitative benefits involved in or resulting from the
implementation of the recommended option or options. Such analysis must specify the schedule that, at a minimum, must be adhered to in order to achieve the estimated savings. All elements of cost must be clearly identified in the cost-benefit analysis, described in the business case, and supported by applicable records and reports. The State agency head shall attest that, based on the data and information underlying the business case, to the best of his or her knowledge, all projected costs, savings, and benefits are valid and achievable. As used in this section, the term “cost” means the reasonable, relevant, and verifiable cost, which may include, but is not limited to, elements such as personnel, materials and supplies, services, equipment, capital depreciation, rent, maintenance and repairs, utilities, insurance, personnel travel, overhead, and interim and final payments. The appropriate elements shall depend on the nature of the specific initiative. As used in this paragraph, the term “savings” means the difference between the direct and indirect actual annual baseline costs compared to the projected annual cost for the contracted functions or responsibilities in any succeeding State fiscal year during the term of the contract.

Consideration of options for procurement of MCS was performed after careful review of mobile telecommunications markets and trends, from both a State of Florida perspective and nationally. Based on this understanding of markets and trends; the following analysis reviews a variety of factors, such as: budgets, resources, stability, reliability, cost, risks, time to implement, and simplification opportunities.

5.1 Business Models for Mobile Communication Services

5.1.1 Insourcing Mobile Network Operator
The business case is required to consider as an option insourcing of MCS, examining whether feasibility, cost-effectiveness, and efficiency is not better obtained by the Department directly delivering services. Insourcing would require the assets, capabilities and staff to construct and operate a Mobile Network Operations (MNO) platform for the State of Florida. This would require DMS to become one of the largest mobile telecommunications operators in Florida, in direct competition with service providers such as AT&T, Sprint, T-Mobile, and Verizon.

The Department would be required to:

- Negotiate interoperability with other national providers to allow for roaming;
- Establish a radio access network and acquire license for the use of needed spectrum. Since 1994, the Federal Communications Commission (FCC) has conducted auctions of licenses for electromagnetic spectrum. The Department would need to become a qualified bidder. The electromagnetic spectrum the Department would require would not necessarily be available for purchase through auction. The recent FCC Auction 73: 700 MHz Band received bids for geographic areas including the State of Florida, with gross bids of $19.2 billion⁴;
- Establish of network-to-network interfaces with every local incumbent local exchange carrier in the State of Florida, as well as for other originating and terminating carriers such as long-distance service providers.
- Purchase and implement voice transport infrastructure services, including the design and buildout of cell phone towers across the State of Florida. The costs would include

⁴ https://www.fcc.gov/auction/73
an initial investment in obtaining land through purchase or lease, building new cell phone towers, and ongoing operation and maintenance costs associated with the towers;

- Purchase and install operational support systems which support all back-office systems associated with operating the MCS network, including administrative and other reports, facilities and maintenance, rating and billing functions;
- Purchase and install business support systems which support all front office systems associated with operating the MCS network, including customer service representatives;
- Provide professional staffing for management functions not present today at the Department including regulatory filings, FCC reporting, Public Service Commission reporting, carrier relations and the like;
- Purchase and install operational support systems which support all back-office systems associated with operating the MCS network, including administrative and other reports, facilities and maintenance, rating and billing functions;
- Provide professional staffing for management functions not present today at the Department including regulatory filings, FCC reporting, Public Service Commission reporting, carrier relations and the like;
- Purchase and install business support systems which support all front office systems associated with operating the MCS network, including customer service representatives;
- Provide professional staffing for management functions not present today at the Department including regulatory filings, FCC reporting, Public Service Commission reporting, carrier relations and the like;
- Provide operations staffing for a statewide network including billing, provisioning, maintenance and repair, and the Network Operations Center;
- Establish a NOC, which includes the staffing mention above, and also contact center voice equipment and services. A NOC required for these services would include highly skilled multi-lingual contact center agents, and escalation to technically skilled contact center agents. There would also be a cost for the office space required for the contact center agents and supervisors; and
- Negotiate contracts with device manufacturers for the purchase of devices.

Under this option, the costs to establish a large new statewide MNO are overwhelming and involve considerable risk. For these reasons this insource option is not recommended and is not considered further in this business case.

5.1.2 Insourcing Mobile Network Operator as MVNO
A second “insourcing” consideration is the development of a Mobile Virtual Network Operator (MVNO). An MVNO provides mobile services to end-users without owning its own frequency spectrum or network infrastructure, as it buys such capacity from a host MNO.

As an MVNO, the Department would not own and operate a network but would still be required to:

- Purchase and install operational support systems which support all back-office systems associated with operating the MCS network, including administrative and other reports, facilities and maintenance, rating and billing functions;
- Purchase and install business support systems which support all front office systems associated with operating the MCS network, including customer service representatives;
- Provide professional staffing for management functions not present today at the Department including regulatory filings, FCC reporting, Public Service Commission reporting, carrier relations and the like;
- Provide operations staffing for a statewide network including billing, provisioning, maintenance and repair, and the Network Operations Center;
- Establish a NOC, which includes the staffing mention above, and also contact center voice equipment and services. A NOC required for these services would include highly skilled multi-lingual contact center agents, and escalation to technically skilled contact center agents. There would also be a cost for the office space required for the contact center agents and supervisors; and
- Negotiate contracts with device manufacturers for the purchase of devices.
Under this option, the costs to establish an MNVO are lower than an MNO, but are substantial and involve considerable risk. For these reasons this insource option is not recommended and is not considered further in this business case.

5.1.3 Combination Insourcing/Outsourcing

The Department is acting as a “second brand MVNO” for air cards, and as a “branded reseller MVNO” for all other equipment and services. Today, the Department operates its air card platform as a second brand-MNVO by providing customer care including device activation. DMS originally selected this model to ensure security for air cards. These security techniques include IP address management and isolation of customer traffic via closed user groups. Closed user groups are the segregation of traffic into streams which are only visible to that specific customer. DMS also provides billing and device management for its air card platform. However, the remaining MCS platform is provider managed and the Department only provides a distribution channel for those products and services.

Second Brand-MVNO is a model that provides customer care, billing, handset management, and distribution. This platform allows for market participation without spectrum and technical value add including interconnectivity and application development.

Branded Reseller-MVNO is a model where the MVNO provides only the distribution channel for products and services. All other support functions are handled by another MVNO or MNO. This is the most flexible and risk adverse platform in the MVNO model.

5.2 Evaluation of the Options for Mobile Telecommunication Services

The following is the evaluation of options available to the state for services similar to MCS:

5.2.1 Descriptions of Available Options for Insource and Outsource

This business case examines three options specifically for the scope of continued support, integration, and installation of MCS and ancillary features/capabilities following the expiration of the current MCS contracts.

Insource, Outsource, Insource/Outsource Combination

Insource - Is an organization’s performing a service internally. Insourcing is a business decision that is often made to maintain control of critical functions or competencies that are essential to the organization’s mission.

Outsource - Is the contracting out of a service to a third party. Outsourcing can be a way to take advantage of third party experience and efficiency.

Combinations of Insource and Outsource - Services provided by a combination of existing state employee full-time equivalent (FTE) positions, with vendors providing
elements of operations that fall outside of the administrative, physical, or technical capabilities of the Department.

5.2.2 Description of Options for a Mobile Network Operator

The options for procurement of MCS capability that are evaluated in this business case are:

1. An option based on insourcing whereby the Department creates a Mobile Network Operator and manages all mobile communication functions, like the operations of a competitive mobile network carrier. For reasons described above, Sections 5.1.1 and 5.1.2, are not further considered in this business case. (MNO, MVNO) – Option 1

2. An option based on a combination of insource/outsource whereby the Department outsources the significant mobile communication functions and uses a second brand MVNO platform to manage customer care, billing, and equipment management for air card service only and provides only a distribution channel for the mobile network provider’s products and services. This is DMS’ current model (Second Brand-MNVO and Branded Reseller-MVNO). – Option 2; and,

3. An option based on a combination of insource/outsource whereby the Department outsources all the mobile communication functions and acts only as a brand reseller providing only a distribution channel for the mobile network provider’s products and services, including air cards. (Branded Reseller- MVNO) – Option 3

5.2.3 Description of Options for Forms of Procurement

Competitive Procurement - Section 287.057, F.S., and Department of Management Services (DMS) Rule 60A-1, Florida Administrative Code, provides:

Invitation to Negotiate (ITN) – Used when the agency knows the desired end result but is not sure how to get there; or, there are many ways to get to the end result; or, the qualifications of the provider and quality is more important than price. This option works best when highly technical or complex services are being acquired. The price structure for services is negotiated.

Invitation to Bid (ITB) – Used when the agency knows exactly what it wants. Price is the determining factor in the award.

Request for Proposal (RFP) – Used when the agency has a general idea of what it wants. Services and price are evaluated.

These procurement options are within the scope for outsourcing as required by Chapter 287.0571, F.S., and represent common procurement options utilized by the state for similar needs. This business case recommends an ITN as the best procurement option but leaves that determination to Executive Leadership. The services contemplated within this business case are highly technical which limits the Department’s ability to establish precise specifications or specifically define the services and identify necessary deliverables. Pricing will not be the sole determining factor in determining a contract award and the Department desires the ability to negotiate the best method of service delivery.
5.2.4 Assumptions for Options

The financial modeling presented in this business case uses the “combination insource/outsource” framework.

5.3 Analysis of Advantages and Disadvantages

Section 287.0571 (4)(f) - An analysis of the advantages and disadvantages of each option, including, at a minimum, potential performance improvements and risks.

Advantages and disadvantages, including risks, for the alternative options as compared to continued separate mobile communication services contracting, and to each other, are as follows. Additional risk analysis are contained within each option and discussed in Sections 5.3.2 and 5.3.3. Potential performance improvements are discussed in Section 5.4.

5.3.1 Option 1 - Insourcing (MNO, MVNO)

For reasons described in Section 5.1.1 and 5.1.2, this option is not considered further in this business case.

5.3.2 Option 2 – Second Brand-MNVO (Air Card Services only) and Branded Reseller-MNVO

Option 2 is a combination of insource/outsource functionality whereby DMS outsources the physical network associated with the mobile telecommunications services platform and collaborates with the service provider on service plans for contract cost and user pricing. The Department insources billing, and hardware management of the air card service, and provides the distribution channel for the vendor’s products and services (excluding air cards).

Advantages

- Continues current operating mode, practices, and service provisioning;
- Customers experience the same usage patterns and usage-based charging patterns as under current MCS contracts;
- Minimizes additional capital expenditures by DMS and MCS customers, since investment, capacity, and technology evolution are managed by the service provider;
- Customers experience the same billing and administration;
- Provides greater assurance of achieving required SLAs managed by selected service provider.

Disadvantages or Potential Concerns

- Reporting capabilities may be limited in information, which hampers DMS analysis on services.

Risks

- DMS identified no risk with this option.
5.3.3 Option 3 – Branded Reseller-MVNO

This option is a combination of insource/outsource functionality where DMS outsources the physical network, operations, and billing. In this model DMS acts as a branded reseller providing only a distribution channel for the vendor’s products and services.

Advantages
• Customers experience the same usage patterns and usage-based charging patterns as under current MCS contracts
• Potential for lower overall pricing based on aggregation of usage and negotiation of commitment levels and pricing for tiered levels of utilization, similar to the mobile wireless data pricing model;
• Minimizes additional capital expenditures by DMS and MCS customers, since investment, capacity and technology evolution are managed by the service provider;
• Provides greater assurance of achieving required SLAs managed by selected service provider.

Disadvantages or Potential Concerns
• DMS would be required to create a process with the Vendor for the management of closed user groups.
• Customers have to review air card charges on their bill without DMS review.

Risks
• Since DMS would no longer control the service, there would be an implementation and transition risk when transitioning air card services.
• There is a potential security risk if DMS does not administer the air cards and the closed user groups.

5.4 Potential Performance Improvements/Service Features

The Department should consider the following service improvement and service features.

• Future contracts should continue to allow for evolution of service and equipment technology, enabling the contract to evolve with new technology.
• Future contracts should continue to allow platform flexibility, scalability, and support for industry standards, enabling a seamless integration of third-party technologies and applications.
• Future contracts should have higher statewide coverage through multiple carriers. Providers should offer multiple solutions, including equipment for coverage and building penetration. Equipment offerings for improving building penetration should be vendor neutral and at minimum to no cost for customers.
• Future contracts should require detailed reporting capabilities allowing DMS to evaluate the entire product and service offerings for future MCS platform evaluation.
• Future contracts should continue to require a combination of feature rich equipment and basic low-cost options and provide a comprehensive suite of enhanced services fulfilling the customer’s diverse needs.
• Future service delivery should include voice services over Wi-Fi service connections.
• Future service delivery should have a consideration of technology evolutions in public safety communication services.
• Future service delivery should provide the capability for all aspects of the service to be partitioned to provide a scope-of-view and scope-of-command, allowing network administrators (user agents) to manage all their devices.
• Future contracts should include a high standard of measurable, achievable and motivational Service Level Agreements for DMS and its customers, supported by a tool set for monitoring service levels, and backed up by appropriate financial consequences.
• Future contracts should continue to require a waiver of vendor’s service activation fees.
• Future contracts should provide for service plans for both work and personal accounts.
• Future contracts should provide discounts for volume purchases.
• Future contracts should allow for frequent equipment upgrades at minimal to no cost to customers.
• Future contracts should provide options for equipment and lower cost devices from emerging brands.
• Future contracts should increase the standard for operational support, achieving a world class standard of customer service delivery.
• Future contracts should increase the standard for equipment warranties, simplicity of repair, and replacement for faulty equipment.
• Future contracts should require detailed commitment on data utilization, allowing for limited and unlimited data, data limits, data throttling, waivers on data limits for Public Safety plans, and sharing data limits in aggregation across devices.

5.5 Cost Benefit Analysis for Each Option

The Department of Management Services uses a margin percentage to markup costs from the MCS services provider and related ancillary service devices to recover internal DMS costs. The optional services and features of MCS are material to the financial analysis on a separate basis, and are not addressed as separate line items, but instead are included in service model revenues.

The financial analysis compares the options and provides financial metrics to determine which options will:

1. Maintain low costs for DMS in procuring and managing services;
2. Maintain low costs for agencies utilizing MCS; and
3. Provide the greatest benefit for the least cost.

The financial analysis included:

1. Revenue – both air card revenue and all other revenue
2. Direct Costs – direct costs of vendor payments for air cards, infrastructure adjustment, salary and benefits, data processing, and non-salary overhead.
3. Indirect Costs - included salaries and benefits, expenses, contracted services.
4. Net Revenue – includes potential rebates and other adjustments
5. Net Revenue, Post Rebate-Operations Balance – adjusted for customer rebates with a buffer for maintain operational payment and cost control

The analysis forecast the models with the cost recovery rate at either one, one and a half, two, or two and a half percent, which is adjusted in the net revenue with varying customer rebates. An operations revenue buffer of $850,000 annually is assumed to be maintained for operational payment and cost control.

5.5.1 Financial Model Base Case
This business case analysis first establishes a baseline of DMS’ current business and financial environment for MCS, determined from historical business and financial data provided by DMS staff, including historical volumes, costs, revenues and vendor contracts. In modeling the various business case options, historical data was utilized to build an understanding of the fiscal flow of revenue and cost for the service. The model reviews the total volume, revenue, and cost for the services utilized by the agencies through this contract.

Service Forecasts were developed over the 10-year period from the date of MCS contract execution corresponding to fiscal year 2021-2022 through fiscal year 2031-2032, which includes a 5-year renewal period. Based on projections for DMS’ MCS Services, direct and indirect costs were forecasted over the 10-year period. These projections were compared against the baseline scenario (which forecasted no changes to existing contracts, pricing, or DMS’ business model) to determine the potential cost savings to DMS and to its customers. Options 2 and 3 were also compared against each other to determine which Option resulted in the lowest cost.

Over time, DMS may achieve cost savings to the state through migration and integration of newer technologies solution that achieve improved abilities to pass on reductions to the end customers.

5.5.2 Option 1 – Insourse
For reasons described Section 5.1.1 and 5.1.2, this option is not considered further in this business case.

5.5.3 Option 2 – Insourse/Outsource (Second Brand/Hybrid Light MVNO)
Option 2 represents the current MCS platform. DMS acts as a branded reseller for all products in the MCS platform except for air card services. For the air card services platform DMS provides customer support, billing, device management, distribution and sales. In the mobile communication market, DMS is acting a second brand or light mobile virtual network operator (MVNO) for air card, and as a “branded reseller MVNO” for all other equipment and services. This platform is an intermediate model between a branded reseller (Option 3) and a fully defined light MVNO. It allows control of distribution channels, increased level of control over back office processes, billing, device management, and value-added services definition and operations for
air card services. The current MCS platform manages many of these aspects as they relate to MCS air card services. Currently there are 7,956 air card devices that have been issued.

### 5.5.3.1 Technology Requirements

Option 2 envisions current technology requirements to remain the same as it is in the current contracts, however future contracts should allow for flexibility to allow for emerging technologies throughout the life of the contract. All MCS products and services are technically supported by the mobile communications provider except for air card services. Today air card services are supported by both the mobile communications provider and DST. Support regarding the air card device or service is handled by the mobile communications provider. Support for system configuration and closed user group access is provided by DST.

The current MCS contract addresses the following technical requirements.

- Voice Services
- Wireless Data Services
- Transmitted Data Security
- Closed User Group (Supported by DMS internally)
- State Provided IP Addresses (Public and Private)
- Wireless Device IP Routing Scheme
- Service Provider Furnished Public Routable IP Address Space
- Entity Specific Circuit
- Wireless Router and/or WWAN Modem
- Emergency Operations Features
- Security Feature Set
- Service Grade
- Authentication
- Activity User Log
- Text Message Service
- Message Logging
- Tracking Geographical Device Services
- Wireless Applications
- Voice and Data Coverage Maps
- Roaming
- Network Neutrality
- Priority Connection Services
- Applicable Test Plan
- Data Monitoring Suite
- Voice Monitoring Suite
- Voice Handheld Devices
- Minimum Technical Requirements
- Data Devices
- Text Devices
- Helpdesk Services
• Network Trouble Reporting
• Client Testing and Evaluation
• Operational and User Guides
• Escalation Requirements and Procedures
• Planned Outage Notification
• Unplanned Wireless Outage Notification
• Existing Wireless Data Customer Migration

5.5.3.2 Billing
Option 2 envisions billing to remain the same as it is in the current state. All MCS products and services are directly billed from the mobile communications provider except for air card services. Today air card services are managed and billed within DST and this accounts for an average 385 invoices a month.

5.5.3.3 Customer Service
Option 2 envisions customer service to remain the same as it is in the current state. All customer service needs related to MCS products and services are handled by the mobile communications provider except for air card services. Today select air card services are managed within DST. This select service is considered the closed user group and currently makes up 148 air card users. Support and maintenance of this user group service is handled by DMS internally.

5.5.3.4 DMS Role
The DMS role will remain the same as it is in the current MCS platform. DST will continue to work with its MCS customers and service providers to provide the best mobile communications network.

5.5.3.5 Direct & Indirect Cost
In addition to the Direct and Indirect Costs listed in Section 5.5 above, Option 2 envisions DMS staffing time for the air card billing process, in addition to the DMS staffing time required for contract management and monitoring that would be required for both 2 and 3.

5.5.3.6 Overall Cost
To comply with the statutory requirement to “develop a system of equitable billings and charges for telecommunications services” stated in subsection 282.703(2), F.S., SUNCOM uses administrative cost recovery rates which are assessed for each SUNCOM service. Approximately 93.7 percent of SUNCOM’s costs are payments to contracted telecommunications vendors. The remaining 6.3 percent of SUNCOM’s costs are the costs of engineering, designing, procuring, ordering, installing, monitoring, auditing, invoicing, and managing these SUNCOM services. These support services are funded through the imposition of the administrative cost recovery rates, which are added to vendor charges for SUNCOM services. Some SUNCOM services bear more of these costs than others based upon the relative share of support service resources committed to sustaining the service, and so have a higher rate. The underlying goal of the cost recovery model is to ensure the solvency of the Communications Working Capital Trust Fund. Since 2012, the rate charged
to SUNCOM’s Wireless Data Service customers have been between two and a half to three percent of the Customer’s monthly invoice amount.

Quarterly, DivTel reviews a report showing the profitability of services based on service utilization and service costs. To address any inequity identified upon review of these figures, rate reductions and customer credits are used. A customer credit is a one-time liquidation of excess revenue without any associated rate reduction. Customer credits are issued to air card customers when a service achieves unanticipated excess revenue over expenses. Through customer credits, SUNCOM can ensure equitable billings without risking its ability to sustain a service over the longer term. The SUNCOM’S Wireless Data Service is a stable service with low overhead and air card customers have received customer credits over the years.

A reduction in the cost recovery rates associated with SUNCOM’s telecommunications services results in recurring cost avoidance to the existing customers of the affected service. Such a reduction also represents costs avoided by future customers of the service. The recurring nature of the fiscal impact associated with a cost recovery rate reduction requires that adequate consideration be given to both existing and future market conditions associated with the SUNCOM service. With the maturity and growth of SUNCOM’s Wireless Data Service, we are experiencing an increase in revenues.

5.5.3.7 Potential Savings

It is anticipated that over the life of the new MCS contract that cost avoidance will be achieved through leveraging State buying power and continuing to maintain lower costs than available commercially, including volume discounts, and the continued availability to the State of emerging and evolving technology surrounding mobile communications.

5.5.3.8 Transition Costs/Considerations

There are minimal transition cost risks considered in Option 2 as this option leaves MCS in its current state. Should the future procurement not result in a contract, or contracts, with one of the current incumbent providers, there may be costs associated with transition for end users with “locked” devices (devices that only work on a specific provider’s network), along with DMS staff and customer time.

5.5.3.9 Total Estimated Cost over 10 Years

Overall Cost for Option 2 is expected to be $36.7 million over the 10-year period from execution of the MCS contract in July 2020 through FY 2031-32.

5.5.3.10 Risk Analysis

Risk analysis of MCS platform remaining in its current state.

In maintaining the current model of multiple contracts for MCS with the possible entrance of new providers and new emerging technology may create significant risks and required efforts on both the enterprise and customer side. Some of the emerging technology may include 5G network and related technology offerings, emerging public safety integration, device transitioning, and future technological innovations.
The most significant risks and required efforts are on the customer side of transitioning to a new or different MCS platform. Each agency will be required to assess current capabilities and requirements for transition to a new or different MCS platform. Standards, methods, and practices for transition to a new or different MCS platform have been developed through experience by all large carriers who have accomplished this transition for other enterprise customers besides the State of Florida. Furthermore, some additional training of agency IT staff may be required, but it is anticipated that this can be provided over time.

Also, with this option the lack of visibility of detailed reporting information regarding customers, device type, usage of service type, plans and features, and other valuable informational data may not be consistently provided and reported. This reporting data is needed for future analysis of the MCS contract to ensure the most advantageous services and pricing for the State of Florida.

5.5.3.11 Mitigation Plan
Mitigation of negative consequences of MCS platform remaining in its current state is provided by the following factors:

1. The industry will be adapting to emerging technologies as the standard platform for mobile telecommunication services.
2. The current MCS business process and platform experience can be leveraged in any new technology and vendor transitions.
3. The onboarding process of a potential new MCS service provider is expected to occur over a fairly short time period.
4. The MCS business process would remain on an existing and operating network with which all users are familiar. Current users are familiar with the day to day operation of MCS.
5. Existing MCS contracts remain in place throughout the transition period.
6. Development and implementation of stringent SLAs to manage service provider’s service performance, including technical, service delivery and financial requirements.

5.5.3.12 Implementation Timeline for Option 2 & 3
The schedule that, at a minimum, must be adhered to in order to achieve the estimated savings is indicated below in the MCS timeline, which has been combined for both Options 2 & 3 as they would be the same timeline projection. See Section 5.5.5 for the draft timeline.

5.5.4 Option 3 – Insource/Outsource (Distribution Channel Only)
This option represents the lightest MVNO business model, where DMS would only provide its distribution channel to the mobile network operator (MNO) while the MNO provides the rest of the business, from access network to the definition of the mobile service offer. This is the model that requires the lowest investment and overhead for DMS. However, most of the business services remain with the network provider. Therefore, this option provides very limited control of the business and value proposition of the service.
5.5.4.1 Technology Requirements
All technology responsibilities are outsourced to the mobile communications provider in Option 3. This includes all technology requirements as outlined in Option 2 and includes air card services.

5.5.4.2 Billing
All billing responsibilities are outsourced to the service provider in Option 3.

5.5.4.3 Customer Service
All customer service responsibilities are outsourced to the service provider in Option 3.

5.5.4.4 DMS Role
The DMS role in Option 3 is to only provide a distribution channel for the service provider.

5.5.4.5 Direct & Indirect Cost
In addition to the Direct and Indirect Costs listed in Section 5.5 above, Option 3 envisions 2 FTE for the management of the MCS contract and services.

5.5.4.6 Overall Cost
To comply with the statutory requirement to “develop a system of equitable billings and charges for telecommunications services” stated in subsection 282.703(2), F.S., SUNCOM uses administrative cost recovery rates assessed for each SUNCOM service. Approximately 93.7 percent of SUNCOM’s costs are payments to contracted telecommunications vendors. The remaining 6.3 percent of SUNCOM’s costs are the costs of engineering, designing, procuring, ordering, installing, monitoring, auditing, invoicing, and managing these SUNCOM services. These support service rates are funded through the imposition of the administrative cost recovery rates, which are added to vendor charges for SUNCOM services. Some SUNCOM services bear more of these costs than others based upon the relative share of support service resources committed to sustaining the service, and so have a higher rate. The underlying goal of the cost recovery model is to ensure the solvency of the Communications Working Capital Trust Fund. Since 2012, the rate charged to SUNCOM’s Wireless Data Service customers has been between two and a half to 3 percent.

Quarterly, DivTel reviews a report showing the profitability of services based on service utilization and service costs. In order to address any inequity identified upon review of these figures, rate reductions and customer credits are used. A customer credit is a one-time liquidation of excess revenue without any associated rate reduction. Customer credits are issued when a service achieves unanticipated excess revenue over expenses. Through customer credits, SUNCOM can ensure equitable billings without risking its ability to sustain a service over the longer term. The SUNCOM’S Wireless Data Service is a stable service with low overhead and has received customer credits over the years.

A reduction in the cost recovery rates associated with SUNCOM’s telecommunications services results in recurring cost avoidance to the existing customers of the affected service.
Such a reduction also represents costs avoided by future customers of the service. The recurring nature of the fiscal impact associated with a cost recovery rate reduction requires that adequate consideration be given to both existing and future market conditions associated with the SUNCOM service. With the maturity and growth of SUNCOM’s Wireless Data Service, we are experiencing an increase in revenues.

5.5.4.7 Potential Savings
It is anticipated that over the life of the new MCS contract that cost savings will be achieved through leveraging State buying power realizing lower costs than available commercially, including volume discounts, and the continued availability to the State of emerging and evolving technology surrounding mobile communications.

5.5.4.8 Transition Costs/Considerations
There are minimal transition cost risks considered in Option 3 as this option leaves MCS in its current state with the exception of air cards, which become the responsibility of the service provider. Should the future procurement not result in a contract, or contracts, with one of the current incumbent providers, there may be costs associated with transition for end users with “locked” devices (devices that only work on a specific provider’s network), along with DMS staff and customer time.

5.5.4.9 Total Estimated Cost over 10 Years
Overall Cost for Option 3 is expected to be $36.7 million over the 10-year period from execution of the MCS contract in July 2020 through FY 2031-32. DMS’s participation in administering air cards is an incidental cost and does not impact the overall cost for Option 3.

5.5.4.10 Risk Analysis
This paragraph presents a risk analysis of DMS providing only a distribution channel for MCS services and having the vendor manage the entire MNO value chain. The risk differential between Option 2 and 3 are minor.

The risks in Option 3 would encompass the risks outlined for Option 2 in Section 5.5.3.10, with the addition of migration of the closed user group (private network access to MyFloridaNet).

Also, with this option the lack of visibility of detailed reporting information is a risk. Data regarding customers, device type, usage of service type, plans and features, and other valuable informational data may not be consistently provided and reported. This reporting data is needed for future analysis of the MCS contract to ensure the most advantageous services and pricing for the State of Florida.

5.5.4.11 Mitigation Plan
Mitigation of negative consequences of DMS providing only a distribution channel for MCS services and having the service provider manage the entire MNO would encompass the following:
1. Development and implementation of stringent SLAs to manage service provider’s service performance, including technical, service delivery and financial requirements.
2. Work with the service provider and required resources to implement, troubleshoot, manage, and monitor the transition of the closed user group air card services. This would include training and other oversight needed for successful migration.
3. Work with customers and required resources to manage the MCS transition, including training and other oversight.
4. The industry will be adapting to emerging technologies as the standard platform for MCS.
5. The current MCS business process and platform experience can be leveraged in any new technology and service provider transitions.
6. The onboarding process of a potential new MCS service provider is expected to occur over a fairly short time period.
7. The MCS business process would remain on an existing and operating network with which all customers are familiar. Current users are familiar with the day to day operation of MCS.
8. Existing MCS contracts remain in place throughout the transition period as an alternative.

5.5.5 Implementation Timeline for Option 2 & 3
The schedule that, at a minimum, must be adhered to in order to achieve the estimated savings as indicated below in the MCS timeline, which has been combined for both Options 2 & 3 as they would be the same timeline projection. The image below is a placeholder until final timeline is developed with Executive Leadership. Changes to this timeline are expected to have minimal impact on the estimated savings resulting from the execution of Contracts.

Mobile Communication Services Draft Timeline

- January 2019 Business case completion
- January 2019 – December 2019* Solicitation development
- January 2020* - June 2020* Post solicitation on Vendor Bid System
- July 2020* Sign contract
- August 2020* - January 2021* Migration
- November 2020 MCS-2 operations and management begins
- January 2022 Expiration of current MCS contract
- July 2025 Completion of the initial five-year term
- July 2030 Expiration of the MCS-2 contract, if renewed in full
6 Recommended Option & Detailed Discussion

The recommended option for this portion of the business case is in accordance with Subsection 287.0571(4), F.S., which outlines the requirements for contracting with private sector vendors as they can effectively and efficiently provide services and reduce the cost of government. This statute requires analysis of feasibility, cost-effectiveness, and efficiency before proceeding with outsourcing of services.

A detailed analysis for this decision provides the following key findings:

1. An analysis of the mobile communications market concludes that the MCS platform being provided today is following the correct technological path in terms of capability and service delivery;

2. The MCS reporting and analysis information regarding device type, usage of service, and other data needs to be more detailed and provided to DMS on a monthly basis;

3. An MCS platform enables a connected enterprise characterized by access to people and information virtually anytime and anywhere for faster communication and greater collaboration using a variety of devices or mediums;

4. The mobile communications industry is ever evolving and with multiple providers instead of a single service provider approach, DMS is able to provide the customer with new technology at competitive pricing;

5. As the mobile communications market continues to evolve, review of SLA requirements will need to be a priority for DMS contract management to ensure MCS customers receive the best possible service solution;

6. Improved customer awareness of the capabilities of the service offering portfolio will extend the adoption of MCS to a broader customer base;

7. Innovative technology offerings to DMS customers will provide the opportunity for growth of the MCS platform;

8. The assumption of growth of MCS services will directly result in an increase for data consumption by all customer segments;

9. The telecommunication advancements in Public Safety are continuously evolving and creating new service offerings specific to Law Enforcement, EMS, and other First Responder networks.
6.1 Summary of the Three Options Considered in This Business Case

In summary the three options considered for the next generation for Florida’s mobile communications services platform are outlined below. The current services are provided by DMS, Verizon, AT&T, and Sprint.

The three options are:

1. Option 1 - Insourcing of Mobile Communications Services and support functions. For reasons described in Section 5.1.1 and 5.1.2, this option is not considered further in this business case.
2. Option 2 - Combination of Insourcing and Outsourcing (Current MCS Model) whereby DMS outsources all of the mobile telecommunication services except for the management, support, and billing of air card services.
3. Option 3 - Combination of Insourcing and Outsourcing whereby DMS outsources all of the mobile telecommunication services and acts only as a distribution channel for the service provider.

Each of these three options has been evaluated about the following attributes as supported by Section 5.6:

- Risks, disadvantages, pros and cons;
- Assumptions and constraints; and
- The schedule of key events.

6.2 Option 1 – Insource

The Department of Management Services would request the establishment and funding for state FTE positions and physical assets to support mobile communication operations as appropriate. Upon approval, DMS would establish an internal mobile communications services organization composed of these full-time state employees based upon the choice of services to insource and outsource. These positions would be incorporated into the department’s Legislative Budget Request (LBR) for funding each fiscal year. The level and appropriateness of outsourcing will be determined by what services are deemed attainable through state resources.

6.3 Option 2 – Combination Insourcing and Outsourcing (Current MCS Model)

For this option, DMS would release an ITN to qualified vendors and negotiate a new contract for the identified MCS service features based upon existing mobile communications service portfolio, which includes Public Safety specific services, with consideration for emerging technology/capabilities. This option is predicated on DMS maintaining support and management of all air card services. This option is the current MCS platform. Option 2 – Combination Insource and Outsource, provides the low risk to the state while allowing competitive market...
forces to keep the total cost of service delivery low. This option leverages DMS’ existing staffing and service capabilities.

6.4 Option 3 – Combination Insourcing and Outsourcing (Distribution Channel Only)

For this option, DMS would release an ITN to qualified vendors and negotiate a new contract for the identified MCS service features based upon existing MCS portfolio, which includes Public Safety specific services, with consideration for emerging technology/capabilities. This option outsources all mobile communication services and operations to the service provider while DMS acts only as a distribution channel. Support for air card services would be maintained by DMS until adequate time has been provided for a migration of services to the provider. This option leverages DMS’ existing staffing and service capabilities.

6.5 Recommendation

It is recommended that DMS issue a combination insourced and outsourced competitive procurement as an Invitation to Negotiate (ITN) as outlined by Option 2. This procurement should identify and incorporate the evolution of new mobile communication technologies and service offerings.

With the evolution of a Public Safety mobile communication network, consideration should be given to a multiple ITN approach.

7 Business Case Recommendations Summary

The following section is provided as an overall summary of recommendations collected from throughout the business case. They represent key points that should be considered as DMS moves forward with its chosen path for MCS.

Recommendations include:

1. DMS issue a combination insourced and outsourced competitive procurement as an Invitation to Negotiate (ITN) to maintain its currently structured mobile communications services portfolio as outlined by Option 2.

2. The MCS solution should continue to allow for evolution of service and equipment technology, enabling the contract to evolve with new technology.

3. Internal support for closed user group should work with all providers to establish a private network access to MyFloridaNet.

4. Timely review of services and offerings which allows DMS to provide the most advanced mobile communication services. Market technology such as signal boosters and wearable technology are driving the need for data consumption and consumer demands.
5. Prioritize the review of current SLA requirements to ensure MCS customers are receiving the best possible service in a continuously evolving market.

6. DMS develop and implement SLAs that require consistent and timely reporting of device type, usage of service type, plans and features, and other valuable informational data is necessary. This reporting data is needed for service evaluation and monitoring, and future analysis of the Mobile Communication Services contract to ensure the most advantageous services and pricing for the State of Florida.

7. DMS maintain the necessary resources and support staff needed to manage the MCS air card users, closed user group, and its potential growth of new users. Service delivery for this offering must be managed end-to-end within the delivery configuration to ensure proper network administration is maintained. Further, all back-office functions (customer service requests and invoicing) must be properly maintained by DMS resources.

8. Create a report template to be distributed and used monthly by all contracted service providers to ensure consistency and ease of review.

9. DMS maintain the necessary resources and support staff needed for contract management and SLA monitoring to ensure proper service quality for the State of Florida.

10. Tiered or bulk pricing offerings should be explored.

11. The MCS procurement should have the goals of improved SLAs, improved reporting, and continued low pricing.

8 State Business Process & Policies

Section 287.0571 (4)(i), F.S.  A description of differences among current state agency policies and processes and, as appropriate, a discussion of options for or a plan to standardize, consolidate, or revise current policies and processes, if any, to reduce the customization of any proposed solution that would otherwise be required.

In the context of the SUNCOM service portfolio, there are no impacts to existing state agency processes or policies that are not currently being managed effectively by DMS. The intended service delivery maintains a current steady state of services to all SUNCOM customers and as such the new MCS procurement does not present any additional burden on the state.

9 Performance Metrics Review

Section 287.0571 (4) (j), F.S.  A description of the specific performance standards that must, at a minimum, be met to ensure adequate performance.

The current MCS contracts contain Service Level Agreements (SLAs). After review of these SLAs, the performance standards and measurements that should be met to ensure adequate performance includes:
Escalations – any future contract(s) should continue to require escalation procedures to maintain a high level of customer service to Customers.

Migration – any future contract(s) should continue to require migrations be completed within 120 days of Contract execution to maintain a high level of customer service to Customers, and a robust standard of project management.

Maintenance – any future contract(s) should continue to require notification for planned and unplanned maintenance that could affect service delivery to maintain a high level of customer service to Customers.

Appliance Failover – any future contract(s) should continue to require rapid failover to the secondary IPsec Virtual Private Network (VPN) appliance to maintain connectivity to MFN.

In addition to current SLAs, the following recommended performance standards will ensure adequate performance:

Contractor Staffing – any future contract(s) should ensure that key staffing positions are filled with personnel with the appropriate experience and qualifications with remedies for identified deficiencies.

Contractor meetings – any future contract(s) should ensure that the Department is able to adequately monitor the contracts. Ongoing operational and topic specific meetings are an appropriate tool to assist with such monitoring.

Project Management – any future contract(s) should ensure that the Department is able to adequately monitor the transition from current to future contracts. The transition should be conducted in an optimal way to achieve the standards of transition.

Billing and Reporting – any future contract(s) should ensure that the Department is able to receive invoices, credits, and reporting on cost recovery and direct billed accounts in a timely manner with all required information. Additionally, future contract(s) should require Public Safety specific reporting on Customer utilization.

Public Safety – any future contract(s) that offer public safety specific options should require a high standard of coverage across the State, compliance with industry standards for Public Safety LTE communication, and offer deployable technologies for emergency situations. Additionally, the future contract(s) should ensure Public Safety Customers have local control to enact priority and preemption of their service, a local control portal, and Public Safety specific customer support.

10 Projected Timeframe

Section 287.0571 (4)(k), F.S. The projected timeframe for key events from the beginning of the procurement process through the expiration of a contract.
The MCS procurement to contract expiration timeline is suggested to be established for five years, with a renewal/evaluation interval at year five, at which time new negotiations for service features and reduced pricing should take place. This contract should be put in place prior to the expiration of existing MCS contacts to allow for any migration of services needs to be met with a new portfolio of services.

See 5.5.5 for the presentation of the projected timeline and key events.

11 Public Records Compliance

Section 287.0571 (4) (l), F.S. A plan to ensure compliance with the public records law.

The procurement and a subsequent awarded contract should state that any and all records produced are subject to Ch. 119, Florida Statutes. The service provider shall allow DMS access to all documents, papers, letters, or other material subject to Ch. 119, Florida Statutes for which public record requests are made or received by the department.

12 Contingency Plan

Section 287.0571 (4) (m), F.S. A specific and feasible contingency plan addressing contractor nonperformance and a description of the tasks involved in and costs required for its implementation.

Using multiple providers as a strategy to achieve maximum coverage also minimizes the need for contingency planning related to contractor nonperformance. Having multiple contracts facilitates end-users discontinuing services from a nonperforming provider. DMS anticipates continuing its contract strategy where there are no term commitments for devices, therefore any costs related to Contractor nonperformance would be limited to the cost of moving any locked phones for one provider to another.

Future contracts should maintain provisions to address the termination for cause in the event of non-performance by the Contractor and remedies for non-performance consistent with those available in rule 60A- 1.006, F.A.C.

DMS should include SLAs in the contract in the event the service provider does not meet established performance expectations. The SLAs should provide incentive for a contractor to cure problems with performance before an event of default occurs.

Suggested Remedies for DMS for Default and Obligations upon Termination:

- Terminate the contract by providing the service provider with appropriate written notice of the effective date of termination;
- Seek equitable relief and/or institute legal proceedings against the service provider to collect payment of any money owed including, but not limited to, re-procurement costs, system replacement costs, and liquidated damages; and initiate proceedings to have service provider placed on the Suspended Vendor
list;

• Once placed on the Suspended Vendor list, state agencies will be advised not to do business with the service provider without written approval from State Purchasing until the state receives reimbursement for all re-procurement costs.

Recommended Termination Assistance Services:

• Service provider must cooperate fully with DMS and any new service provider;
• All processes and procedures performed by the service provider must be explained and appropriate documentation provided for each service layer under contract;
• Answer questions related to the migration and transition of services; and
• Termination assistance services rendered prior to the termination date of the contract will be at no additional cost to DMS. Services rendered after termination of the contract will be at a reasonable rate.

13 Transition Plan

Section 287.0571 (4) (n), F.S. A state agency’s transition plan for addressing changes in the number of agency personnel, affected business processes, employee transition issues, and communication with affected stakeholders, such as agency clients and the public. The transition plan must contain a reemployment and retraining assistance plan for employees who are not retained by the state agency or employed by the contractor.

Subsection 287.0571(4)(n), F.S., requires a business case to address issues that may arise when work currently being done by state employees is transferred to a contractor. There is no expectation of a need to reemploy or retrain agency personnel. The DMS staff that perform services related to MCS are expected to not have changes to their roles under Option 2. Therefore, utilizing Option 2 does not require reemployment or retraining assistance and no transition plans for employees are necessary.

14 American With Disabilities Act Of 1990, As Amended

Section 287.0571 (4) (o)F. S. A plan for ensuring access by persons with disabilities in compliance with applicable state and federal law.

The Americans with Disabilities Act (ADA) prohibits discrimination on the basis of disability in employment, state and local government, public accommodations, commercial facilities, transportation, and telecommunications. To ensure that the service provider is compliant with state and Federal ADA laws, the procurement should request that the service provider outline a plan to identify and address any ADA concerns. Future contracts should include the requirement to comply with the provisions in Part II of Chapter 282, Florida Statutes, specifically relating to accessibility of information and technology for those with disabilities.
15 Contract Provisions

This business case does not address specifics of the contract provisions as set forth in section 287.0571(5), F.S., as they will be fully defined in the ITN. The ITN will take into consideration all other sections of the business case to aid in the development of the contract language as appropriate.