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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Defense Information Systems Agency **Date:** February 2015

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0303153K / <i>Defense Spectrum Organization</i>
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COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	130.608	8.050	13.393	20.342	-	20.342	17.091	12.516	12.872	12.987	Continuing	Continuing
JS1: <i>Joint Spectrum Center</i>	130.608	8.050	13.393	20.342	-	20.342	17.091	12.516	12.872	12.987	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Defense Spectrum Organization (DSO) provides a full array of electromagnetic spectrum services and capabilities, ranging from short notice on-the-ground operational support at the forward edge, to long range planning in pursuit of national strategic objectives. These services/capabilities are in direct support of Combatant Commanders, the Department of Defense (DoD) Chief Information Officer, Military Services, and Defense Agencies. The DSO is the focal point for electromagnetic spectrum analysis and the development of integrated spectrum plans and strategies to address current and future needs for DoD spectrum access. In addition, DSO serves as DoD's spectrum advocate at national and international forums and conducts extensive outreach to both industry and government. DSO also implements enterprise spectrum management capabilities to enhance spectrum efficiency and agility to improve spectrum-dependent capabilities in support of United States and Coalition operations. This includes acquiring, implementing and sustaining the Global Electromagnetic Spectrum Information System (GEMSIS) which provides an integrated catalog of joint net-centric spectrum management tools and services. Electromagnetic Spectrum Management enables information dominance through effective spectrum operations.

B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	7.681	13.423	21.412	-	21.412
Current President's Budget	8.050	13.393	20.342	-	20.342
Total Adjustments	0.369	-0.030	-1.070	-	-1.070
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustment	0.369	-0.030	-1.070	-	-1.070

Change Summary Explanation

The FY 2014 increase of +\$0.369 provided contract support to enhance the effectiveness of DoD world-wide access to spectrum.

The FY 2015 decrease of -\$0.030 is the result of reduced contract support for the development of enhanced analytical tools.

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The FY 2016 decrease of -\$1.070 is due to delays in integrating spectrum capabilities within GEMSIS, transitioning emerging technologies to programs of record, and developing enterprise spectrum capabilities.		

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Defense Information Systems Agency										Date: February 2015		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 0303153K / Defense Spectrum Organization				Project (Number/Name) JS1 / Joint Spectrum Center			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
JS1: Joint Spectrum Center	130.608	8.050	13.393	20.342	-	20.342	17.091	12.516	12.872	12.987	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Joint Spectrum Center (JSC), which is a division of DSO, designs, develops, and maintains Department of Defense (DoD) automated spectrum management systems, evaluation tools, and databases. The databases are the prime sources of information for DoD use of the Electromagnetic (EM) spectrum. The JSC provides technical measurement and analysis in support of DoD spectrum policy decisions to ensure the development, acquisition, and operational deployment of systems are compatible with other spectrum dependent systems operating within the same EM environment. Additional efforts focus on improving future warfighter EM spectrum utilization through technological innovation, and influencing research and development emerging technology efforts.

Improved spectrum support includes the Global Electromagnetic Spectrum Information System (GEMSIS), a net centric capability that will provide commanders with an increased common picture of spectrum situational awareness of friendly and hostile forces while transparently deconflicting competing mission requirements for spectrum use. This capability will enable the transformation from the current preplanned and static assignment strategy into autonomous and adaptive spectrum operations.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2014	FY 2015	FY 2016
Title: Advanced Spectrum Tools	3.626	6.944	0.860
Description: The Joint Spectrum Data Repository and Tools program supports development of spectrum management tools, spectrum modeling and simulation capabilities, spectrum database development, and spectrum data transformation and standardization. This program provides the Combatant Commands (COCOMs) and Military Services with the spectrum management tools and associated databases to manage spectrum resources at the strategic and operational level. It also provides the DoD acquisition community with analytical tools to conduct Electromagnetic Environmental Effects (E3) analyses and Spectrum Supportability Risk Assessments (SSRA).			
FY 2014 Accomplishments: Enhanced the Joint Spectrum Data Repository (JSDR) by developing and deploying a statistical data quality assessment capability that addressed all frequency assignment files currently hosted by the DSO. Implemented an unclassified but sensitive internet protocol router network (NIPRNet) version of the JSDR at a Defense Enterprise Computing Center (DECC). Initiated development of Spectrum XXI Online (SXXIO) v2.3. Enhanced the automated data sharing capabilities (Stepstone and Joint Data Access Web Server (JDAWS)) and the spectrum data exchange standard based on refined requirements generated through the activities of data Communities Of Interest (COIs). Initiated development of Spectrum Relocation/Requirements Analysis Capability (SRRAC) v2.0. Improvements to the spectrum supportability risk assessment tool included additional "Wizards" for			

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
novice users, and enabling secure remote access by connecting to the SIPRNet. Development and information assurance activities enabled deployment of the Mass Relocation Tool. FY 2015 Plans: Will focus on fielding SXXIO Full Operational Capability (FOC), hosting of SRRAC v2.0 and the spectrum supportability risk assessment tool on SIPRNet, and further developing capabilities to support situational awareness of spectrum use at the strategic and joint operational level to include coordination and integration with evolving Joint Electromagnetic Spectrum Operations (JEMSO) capabilities. DSO will deploy the enhanced JSDR Initial Operational Capability (IOC) at a DISA Enterprise Service Center (ESC). This new version of the JSDR software will implement a new data exchange format, data quality assessment capability, Universal query and Federated data capabilities, as well as a cross domain solution for data exchange with external DSO customers. Will focus on fielding SXXIO Full Operational Capability (FOC), hosting of SRRAC v2.0 and the spectrum supportability risk assessment tool on SIPRNet, and further developing capabilities to support situational awareness of spectrum use at the strategic and joint operational level to include coordination and integration with evolving JEMSO capabilities. DSO will deploy the enhanced JSDR Initial Operational Capability (IOC) at a DISA Enterprise Service Center (ESC). This new version of the JSDR software will implement a new data exchange format, data quality assessment capability, Universal query and Federated data capabilities, as well as a cross domain solution for data exchange with external DSO customers. The increase of +\$3.318 from FY 2014 to FY 2015 will allow deployment of a NIPRNet instance of the JSDR including development and fielding of a cross domain solution for the new spectrum data standard. This increase will enable continued development of SXXIO features through FY 2015 that will support the full range of spectrum assignment and coordination processes, and support the eventual sunset of legacy SXXI. The increase will also enable SRRAC v2.0 to be hosted on SIPRNet. FY 2016 Plans: Enhancements to Spectrum Technology and Test Initiative in support of Spectrum Engineering Analysis and Relocation efforts. Supports evaluation of future and existing spectrum analysis tools. The decrease of -\$6.084 from FY 2015 to FY 2016 is the result of the realignment of the JSDR & Spectrum XXI Online efforts and funding into the Global Electromagnetic Spectrum Information System (GEMSIS) to re-baseline the GEMSIS program.				
Title: DoD Electromagnetic Environmental Effects (E3) Program Description: The DoD E3 Program supports the Joint Capabilities Integration and Development System (JCIDS) process and the DoD acquisition process to ensure that E3 control and spectrum supportability are incorporated into the development, testing, and procurement of information technology and National Security Systems. The E3 Program also supports the development		1.323	1.397	4.667

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015
of the Joint Ordnance E3 Risk Assessment Database (JOERAD) and Hazards of Electromagnetic Radiation to Ordnance (HERO) electromagnetic environmental effects surveys in support of the COCOMs and Joint Task Forces. JOERAD develops algorithms and provides analytical capabilities to perform real-time risk assessments to evaluate platform/system safety and identify equipment limitations in the operational Electromagnetic (EM) environment. JOERAD enables operators to make critical decisions about the hazards associated with the use of ordnance within complex EM environments. A SSRA is performed by program managers and materiel developers on all programs that are acquiring or incorporating spectrum-dependent systems or equipment per DoDI 4650.1. These assessments encompassed regulatory, technical, and operational spectrum and E3 issues and associated risks. FY 2014 Accomplishments: Conducted four HERO surveys for forward deployed bases and critical reviews of approximately 400 JCIDS documents supporting DoD acquisition, research and analysis efforts. Conducted quality assurance inspections. FY 2015 Plans: Will initiate conversion of the JOERAD to a web-based capability. Will conduct Joint Ordnance Commanders Group (JOCG) HERO Subgroup meetings and support the JOCG Executive Committee. Will develop ordnance susceptibility data records and perform quality data inspections for use in ordnance deconfliction. Will conduct up to eight forward HERO surveys for the COCOMs/Services. Will conduct CONUS base emitter surveys for ordnance safety database validation and update the DoD ordnance radio frequency (RF) safety requirements. Will update MIL-HDBK-235 Electromagnetic Environment (EME) Profiles to address blue force jammer environment. Will continue to implement the DoD E3 Program on behalf of OSD in support of system acquisitions. Will review approximately 400 JCIDS and Information Support Plan (ISP) documents assigned by the Joint Staff and DoD CIO. The increase of +\$0.074 from FY 2014 to FY 2015 will enable the JOCG HERO Subgroup meetings to be conducted and fully support the JOCG Executive Committee, develop additional ordnance susceptibility data records, and perform quality data inspection for use in ordnance deconfliction. In addition, will provide spectrum and E3 training modules for DAU program management and systems engineering curriculum and fully support the JCIDS acquisition process. FY 2016 Plans: Will convert the Joint Ordnance E3 Assessment Database (JOERAD) to a web-enabled application compliant with the Standard Spectrum Resource Format. Will conduct Joint Ordnance Commanders Group (JOCG) Hazards Electromagnetic Radiation to Ordnance (HERO) Subgroup meetings, support the JOCG Executive Steering Committee and develop and maintain the Services' HERO susceptibility data records. Will conduct forward deployed base HERO surveys for the COCOMs/Services, and CONUS based emitter surveys for ordnance safety database validation and update the DoD ordnance radio frequency (RF) safety requirements. Will update MIL-HDBK-235, "Electromagnetic Environment (EME) Profiles" and develop EME profiles to address			

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
blue force jammer and electronic warfare environments. Will conduct monthly DoD E3 IPT Meetings. Will provide technical support to DoD CIO, the Joint Staff, and other DoD Components on E3, spectrum, hazards of EM radiation matters. Will review JCIDS and Information Support Plan (ISP) acquisition documents assigned by the Joint Staff and DoD CIO and update guidance instructions as necessary. Will provide E3 and SS training to the DoD Components and develop/maintain training curricula at the Defense Acquisition University.				
The increase of +\$3.270 from FY 2015 to FY 2016 will support complete conversion of JOERAD to a web-enabled application and conversion to Standard Spectrum Resource Format (SSRF) compliancy. Will fully enable development and maintenance of the Services’ HERO susceptibility data records and performance of data quality inspections. In addition, will enable the update of MIL-HDBK-235, “Electromagnetic Environment (EME) Profiles” and EME profiles to address blue force jammer and electronic warfare environments.				
Title: Emerging Spectrum Technologies (EST) Description: DSO has the responsibility to investigate emerging spectrum related technologies and evaluate their applicability to improve future warfighter EM spectrum utilization through technological innovation. The goal of the EST program is to identify the opportunities and risks associated with emerging spectrum-related technologies in the early stages of the technology development, influence and lead technology development in order to maximize DoD spectrum utilization, and ensure that spectrum policies incorporate optimal technology to meet DoD mission requirements. Within EST there is an increased focus on Dynamic Spectrum Access (DSA). DSA is realized through wireless networking architectures and technologies that enable wireless devices to dynamically adapt their spectrum access according to criteria such as policy constraints, spectrum availability, propagation environment, and application performance requirements. FY 2014 Accomplishments: Focused on supporting the Defense Enterprise Spectrum Strategy, to include developing enabling concepts, processes, standards, and architectures for the application of DSA and other promising spectrum sharing methods to meet DoD's growing spectrum requirements. FY 2015 Plans: Efforts will focus on maturing the enabling concepts, processes, standards, and architectures for the application of DSA and other promising sharing methods to meet DoD's growing spectrum requirements. Coordination and collaboration with operational, policy/regulatory, and technology oriented stakeholders will be conducted. The increase of +\$1.039 from FY 2014 to FY 2015 will enable initial efforts to plan for and coordinate a concept demonstration of spectrum sharing capabilities with stakeholders. This will be accomplished through the application of DSA.		1.315	1.596	3.123

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
The increase of +\$0.281 from FY 2014 to FY 2015 will enable initial efforts to plan for and coordinate a concept demonstration of spectrum sharing capabilities with stakeholders. This will be accomplished through the application of DSA. FY 2016 Plans: Will focus on collaboration with the Science and Technology community (including Assistant Security Defense for Research and Engineering (ASDR&E), Service Labs and Defense Advanced Research Projects Agency (DARPA)) to develop and begin execution of technology roadmaps and integration strategies that result in system flexibility and operational agility. Revisions will be made to the current spectrum management architecture to reflect transforming spectrum operations through application of EST in accordance with the new DoD EMS Spectrum Strategy. Prototype capabilities that provide increased operational agility will be developed and demonstrated. The DSA Spectrum Management Roadmap will be updated to include application of DSA in spectrum sharing scenarios. An initial set of Joint standard ontologies for spectrum operations will be developed. The increase of +\$1.527 from FY 2015 to FY 2016 will continue efforts to improve spectrum sharing capabilities through DSA.				
Title: Global Electromagnetic Spectrum Information System (GEMSIS) Description: The Global Electromagnetic Spectrum Information System (GEMSIS) is a net centric capability that will provide operational commanders with an increased common picture of spectrum situational awareness of friendly and hostile forces while transparently deconflicting competing mission requirements for spectrum use. This capability will enable the transformation from the current preplanned and static assignment strategy into autonomous and adaptive spectrum operations. FY 2014 Accomplishments: Increment two implemented and deployed the Integrated Spectrum Desktop v2.0 enhanced capabilities with integration of improved frequency assignment and spectrum management tools and web services from JSDR, SXXIO, and the Afloat Electromagnetic Spectrum Operations Program (AESOP). FY 2015 Plans: Will improve/enhance user interface and deliver the Spectrum dashboard to enable quick access to information and capabilities. Integration efforts will include implementation of SXXIO v2.3, Stepstone v2.1, JSDR and other services. The increase of \$1.670 from FY 2014 to FY 2015 will enable further development of user interfaces and the Spectrum dashboard. FY 2016 Plans: GEMSIS Increment Two develops and implements the Integrated Spectrum Desktop enhanced capabilities with integration of improved frequency assignment and spectrum management tools and web services from JSDR, SXXIO, End to End Spectrum Supportability (E2ESS), and Coalition Joint Spectrum Management Tool (CJSMPPT). Will improve/enhance user interface and deliver the Spectrum dashboard to enable quick access to information and capabilities. Integration efforts will include		1.786	3.456	11.692

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B. Accomplishments/Planned Programs (\$ in Millions)										FY 2014	FY 2015	FY 2016
implementation of E2ESS (HNSWDO and Stepstone capabilities combined), SXXIO, JSDR, and CJSMPPT maintenance and version releases and other enterprise service integration into the Integrated Spectrum Desktop. The increase of +\$8.236 from FY 2015 to FY 2016 is due to the realignment of \$5.965 from Advanced Spectrum Tools to rebaseline GEMSIS and \$2.271 that will support continued improvements in the quality and completeness of spectrum data and will provide enhanced access to information and capabilities. This includes implementation and version releases for Stepstone, JSDR, SXXIO, ISD capabilities.												
Accomplishments/Planned Programs Subtotals										8.050	13.393	20.342

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
• O&M, DW/PE	37.133	35.192	35.366	-	35.366	35.461	38.517	37.881	-	Continuing	Continuing
0303153K: O&M, DW											
Remarks											
D. Acquisition Strategy											
Engineering support services are provided by the use of a contract. No in-house government capability exists, nor is it practical to develop one that can provide the expertise necessary to fulfill the mission and responsibilities of DSO. Full and open competition was used for the current contract with EXELIS, Inc. GEMSIS' acquisition approach is to obtain capabilities by adopting existing capabilities, buying commercial products, or developing new capabilities by delivering incrementally within the context of a streamlined and adaptive acquisition approach.											
E. Performance Metrics											
1. Provide engineering support to DoD Components to ensure E3 and spectrum supportability requirements are addressed during the acquisition life-cycle meeting at least 90% of program suspenses. 2. Execute effective emerging spectrum technologies evaluation process that generates timely and relevant products evaluating at least 3 technologies per quarter. 3. Provide technical electromagnetic environmental effects (E3) and spectrum engineering support upon request from the Combatant Commands, their components and the Military Services with a minimum 98% response rate. 4. Develop an operational Joint spectrum management system that delivers at least 90% of products on schedule in accordance with objective scheduled events and deliverables as approved in the Acquisition Program Baseline- Schedule Status of systems.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Defense Information Systems Agency												Date: February 2015			
Appropriation/Budget Activity 0400 / 7						R-1 Program Element (Number/Name) PE 0303153K / Defense Spectrum Organization				Project (Number/Name) JS1 / Joint Spectrum Center					
Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Technical Engineering Services 1	C/CPIF	EXELIS, Inc. : Herndon, VA	118.342	6.297	Oct 2013	12.040	Oct 2014	18.989	Oct 2015	-		18.989	Continuing	Continuing	Continuing
Technical Engineering Services 2	MIPR	Various : Various	3.205	0.355	Oct 2013	0.355	Oct 2014	0.355	Oct 2015	-		0.355	Continuing	Continuing	Continuing
Subtotal			121.547	6.652		12.395		19.344		-		19.344	-	-	-
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test & Evaluation	MIPR	JTIC : Ft. Huachuca	1.912	0.400	Oct 2013	-		-		-		-	-	2.312	2.312
Subtotal			1.912	0.400		-		-		-		-	-	2.312	2.312
Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Management Services	FFRDC	MITRE : Ft. Monmouth, NJ	7.149	0.998	Oct 2013	0.998	Oct 2014	0.998	Oct 2015	-		0.998	Continuing	Continuing	Continuing
Subtotal			7.149	0.998		0.998		0.998		-		0.998	-	-	-
			Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			130.608	8.050		13.393		20.342		-		20.342	-	-	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Defense Information Systems Agency			Date: February 2015
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	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Joint Spectrum Center																												
Spectrum XXI Online (SXXIO) Fielding																												
SXXIO Version Releases																												
Joint Ordnance E3 Risk Assessment Database (JOERAD) Releases																												
Dynamic Spectrum Access (DSA) Research Projects																												
Spectrum Data Sharing Capability Deployments																												
GEMSIS Host Nation Spectrum Worldwide Database Online (HNSWDO) Version 3.6 and 3.7 Releases																												
GEMSIS Coalition Joint Spectrum Management Planning Tool (CJSMPT) Releases																												
Increment Two GEMSIS																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Defense Information Systems Agency			Date: February 2015
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Joint Spectrum Center</i>				
Spectrum XXI Online (SXXIO) Fielding	3	2014	4	2015
SXXIO Version Releases	3	2014	4	2017
Joint Ordnance E3 Risk Assessment Database (JOERAD) Releases	3	2014	4	2016
Dynamic Spectrum Access (DSA) Research Projects	3	2014	4	2016
Spectrum Data Sharing Capability Deployments	3	2014	4	2016
GEMSIS Host Nation Spectrum Worldwide Database Online (HNSWDO) Version 3.6 and 3.7 Releases	3	2014	4	2015
GEMSIS Coalition Joint Spectrum Management Planning Tool (CJSMPT) Releases	2	2014	4	2016
Increment Two GEMSIS	1	2014	4	2017