

SAFE Modernization Cost Estimate

Ongoing Costs for Duration of Project:	Total Est. Project Costs 12-26-2012	Adjustments to Previous Estimate	Revised Estimate of Total Project Costs	Expenditures FY13	Balance of Estimated Expenditures Remaining	Adjustment / Changes Notes
4 Senior C#/ASP.Net Developers	5,990,400	(187,200)	5,803,200	256,041	5,547,159	As development projects progressed in FY13 and FY14, SAFE Management determined a need for four experienced developers and an architect position. The architect has been split out to a new line item below. The current plan is to team two experienced developers with two state staff developers on two separate development teams to maximize coding and mentoring.
2 Senior Business Analysts	2,995,200	(748,800)	2,246,400	343,085	1,903,315	It is anticipated we will not need additional business analysts for as long as originally anticipated.
1 Senior C#/ASP.Net Architect	-	1,482,000	1,482,000	128,945	1,353,055	SAFE Management separated the architect role from the C#/ASP.Net Developers, because architect rates are different and the separation better reflected the actual team structure. Rate is higher to reflect market demand for the role.
Office Space, network Connections, phone	54,400		54,400		54,400	
Annual Software Licenses	105,517	25,075	130,592	11,571	119,021	New and changing software needs have been identified in the past year. An architecture change required us to switch development frameworks and we had to purchase a number of seats for Team Foundation Server (TFS), which supports our software development processes.
Annual Database server and hosting costs and rates (this is only an additional cost for modernization while we are working to convert the database, afterwards it becomes operational)	77,296	49,614	126,909	14,708	112,201	FY13 Server Charges were embedded in a Department Charge. The adjustment in costs reflects refinement in the estimations as we learned more about our database environments during FY13. Specifically, we obtained upwardly revised estimates on the amount of disk space required to host our database and cost estimates for hosting our database business resumption warm-site environment in Richfield.
Web, application, and interface servers hosting costs	480,000	3,819	483,819	42,511	441,308	FY13 Server Charges were embedded in a Department Charge. Source for the estimates was an aggregation for hosting costs published by DTS in the Reliability Management System (RMS) tool.
Total Project Ongoing Costs	9,702,813	624,508	10,327,321	796,861	9,530,460	
One-time Costs:						
Equipment, Network, and Data Hosting						
Database Administrators (DBAs) to help with conversion for approximately 6 months only	187,200	(76,320)	110,880	66,640	44,240	We anticipated needing two additional DBAs to assist with conversion, but only needed one, hence the negative adjustment for this. Amount reflect remaining time to help with conversion.
One SQL Server Report Services (SSRS) Specialist to help with conversion for approximately 5 months		58,888	58,888	10,880	48,008	We brought on one temporary contractor to assist with conversion of reports as part of the SQL server conversion and to assist with set up of the first couple of modules of reports in the new reporting tool. A majority of this was paid for using turnover savings and only recently was it paid for out of modernization funds as we filled the state positions.
Training of operational staff and end users	47,537		47,537	47,537	0	
one time software	20,486		21,321	21,321	-	
Total One-time Costs	255,223	(17,432)	238,626	146,378	92,248	
Sources of Revenue:						
Estimated General Fund Cost	1,002,900		1,438,200			
Estimated Non-Lapsing	2,100,000		2,100,000			
Estimated Title IV-E Federal Funds	2,723,100		2,895,800			
Estimated Adoption Incentive Grant	373,100		373,100			
Estimated Other Funds SSBG	3,758,900		3,758,900			
Estimated Total Funding	9,958,000		10,566,000			
Total Estimated Project Cost	9,958,035		10,565,947			
Estimated Federal Title IV-E SAFE rate	28.41%		28.41%			
Federal Administrative SAFE rate	100.00%		100.00%			
Calculated Title IV-E SAFE rate amount (Cost x IV-E rate x Admin rate)	2,829,100		3,001,800			
Estimated Cost for Project	9,958,035	607,076	10,565,947	943,239	9,622,708	

Project to be re-evaluated on an annual basis by the division.

Source: Division of Child and Family Services (modified for presentation purposes)

SAFE Modernization Cost Estimate

As of 12-26-12

	# of Staff	Hourly rate	Est. Hours	Total Est. Costs	Development timeframe*	Total Est. Project Costs
Annual Costs for Duration of Project:						
4 Senior C#/ASP.Net Developers	4	90	2,080	748,800	8	5,990,400
2 Senior Business Analysts	2	90	2,080	374,400	8	2,995,200
	# of Staff	Monthly rate	# of months	Total Est. Costs		
Office Space, network Connections, phone	2	282	12	6,800	8	54,400
Annual Software Licenses				13,190	8	105,517
Annual Database server and hosting costs and rates (this is only an additional cost for modernization while we are working to convert the database, afterwards it becomes operational)				51,531	1.5	77,296
Web, application, and interface servers hosting costs				60,000	8	480,000
Total Annual Costs				1,254,720		9,702,813
One-time Costs:						
Equipment, Network, and Data Hosting				-		
Two DBAs to help with conversion for approximately 6 months only	2	90	1,040	187,200		
Training of operational staff and end users				47,537		
one time software				20,486		
Total One-time Costs				255,223		255,223
Sources of Revenue:						
Estimated General Fund Cost						3,102,900
Estimated Title IV-E Federal Funds						2,723,110
Estimated Adoption Incentive Grant						373,100
Estimated Other Funds SSBG						3,758,900
Estimated Total Funding						9,958,010
Total Estimated Project Cost						9,958,035
Estimated Federal Title IV-E SAFE rate						28.41%
Federal Administrative SAFE rate						100.00%
Calculated Title IV-E SAFE rate amount (Cost x IV-E rate x Admin rate)						2,829,100
Estimated Cost for Project						9,958,035

*Note that the initial timeframe reported to the legislature 6-13-2012 had a timeframe of 8 years

*Note that we are only paying for phones and additional space for two people

These are annual software renewals for the newer software related to modernization. Once all modules have been modernized we will be able to drop the older software licenses and these will become operational

We are only including the costs while we have to maintain duplicate servers costs for the migration. Once the migration is completed these become operational costs

This is currently operational for interfaces but as modules are modernized and size increases rates may also increase. These costs are estimates at this time and may change as we modernize modules. modernization costs versus operational costs

*we are not aware of any one time fees for equipment or network, DTS has gone to monthly rates for this instead of one time fees

*Note that reimbursement is based on SACWIS operational rates, this is not considered new development

Project to be re-evaluated on an annual basis by the division.

Source: Division of Child and Family Services (modified for presentation purposes)

SAFE Modernization Cost Estimate

As of 08-26-2013

Ongoing Costs for Project:	# of Staff	Hourly rate	Est. Hours	Total Est. Costs	Development timeframe*	Total Est. Project Costs	Fiscal Analyst Notes
1 Senior C#/ASP.Net Architect	1	95	2,080	197,600	7.5	1,482,000	As development projects progressed in FY13 and FY14, SAFE Management determined a need for four experienced developers and an architect position. The architect has been split out to a new line item below. The current plan is to team two experienced developers with two state staff developers on two separate development teams to maximize coding and mentoring. Reduced total project cost by the amount of one developer for one year, because we had an architect instead of one of those developer positions last year.
4 Senior C#/ASP.Net Developers	4	90	2,080	748,800	8.0	5,803,200	
2 Senior Business Analysts	2	90	2,080	374,400	6.0	2,246,400	
	# of Staff	Monthly rate	# of months	Total Est. Costs			
Office Space, network Connections, phone	2	282	12	6,800	8.0	54,400	*Note that we are only paying for phones and additional space for two people
Annual Software Licenses				16,324	8.0	130,592	These are annual software renewals for the newer software related to modernization. Once all modules have been modernized we will be able to drop the older software licenses and these will become operational
Annual Database server and hosting costs and rates (this is only an additional cost for modernization while we are working to convert the database, afterwards it becomes operational)				84,606	1.5	126,909	We are only including the costs while we have to maintain duplicate servers costs for the migration. Once the migration is completed these become operational costs
Annual Backup and Archive Costs (Tivoli / TSM)							
Web, application, and interface servers hosting costs				60,477	8.0	483,819	This is currently operational for interfaces but as modules are modernized and size increases rates may also increase. These costs are estimates at this time and may change as we modernize modules. modernization costs versus operational costs DTS has changed some of their billing formulas for servers. It now includes an OS system support fee and a charge per Central Processing Unit (CPU), rather than usage. Source for the estimates was an aggregation for hosting costs published by DTS in the Reliability Management System (RMS) tool.
Total Ongoing Costs				1,489,008		10,327,321	
One-time Costs:							
Equipment, Network, and Data Hosting				-			*we are not aware of any one time fees for equipment or network, DTS has gone to monthly rates for this instead of one time fees
One DBA to help with conversion for approximately 8 months	1	80	1,386	110,880			Determined that we only needed one DBA to assist
One Report Services Specialist to help with conversion for approximately 5 months	1	68	866	58,888			
Training of operational staff and end users				47,537			
one time software				21,321			Reflects purchase of Kendo Framework Software and Team Foundation Server (TFS)
Total One-time Costs				238,626		238,626	
Sources of Revenue:							
Estimated General Fund Cost						1,438,200	
Estimated Non-Lapsing						2,100,000	
Estimated Title IV-E Federal Funds						2,895,800	
Estimated Adoption Incentive Grant						373,100	
Estimated Other Funds SSBG						3,758,900	
Estimated Total Funding						10,566,000	
Total Estimated Project Cost						10,565,947	
Estimated Federal Title IV-E SAFE rate						28.41%	*Note that reimbursement is based on SACWIS operational rates, this is not considered new development
Federal Administrative SAFE rate						100.00%	
Calculated Title IV-E SAFE rate amount (Cost x IV-E rate x Admin rate)						3,001,800	
Estimated Cost for Project						10,565,947	

Project to be re-evaluated on an annual basis by the division.

Source: Division of Child and Family Services (modified for presentation purposes)

6,807,047

*Note that the initial timeframe reported to the legislature 6-13-2012 had a timeframe of 8 years