

## WA State Consolidated Technology Services State Data Center Projects

<b>Prepared By:</b>	Consolidated Technology Services
<b>Date:</b> 10/29/2014	<b>Period Covered:</b> October 13 – October 24

### Project Dashboard

	Scope	Schedule	Budget
<b>Project Name</b>			
<b>SDC Program</b>			
<b>OB2 Heat Reduction</b>	(completed)		
<b>SDC Facilities</b>	(completed)		
<b>SDC Network Core</b>	(completed)		
<b>SDC Firewall Infrastructure</b>	(completed)		
<b>SDC Storage Infrastructure</b>	(completed)		
<b>CTS Cloud Utility</b>			
<b>CTS Move Phase 1</b>	(completed)		
<b>Virtual Tape Library</b>			
<b>SDC Facilities Phase 2</b>	(completed)		
<b>SDC Network Core Phase 2</b>	(completed)		
<b>SDC Move Phase 2</b>			
<b>OB2 Node Site</b>			
<b>OB2 Decommissioning</b>			
<b>Migrate WSP to SDC</b>			

	Baseline Budget as of 12/2013	Actuals as of 9/30/2014
Phase	Budget	Actuals
SDC Program	\$5,850,823	\$3,781,862
OB2 Heat Reduction		
SDC Facilities	\$4,367,307	\$6,392,530
SDC Network Core	\$8,592,141	\$8,116,382
SDC Firewall Infrastructure*	\$3,671,579	\$1,618,438
SDC Storage Infrastructure	\$4,294,613	\$3,679,382
SDC Cloud Utility	\$1,000,000	\$732,560
CTS Move Phase 1	\$4,757,049	\$2,876,511
Virtual Tape Library	\$1,950,000	
SDC Facilities Phase 2	\$3,714,510	\$2,179,109
SDC Network Core Phase 2	\$1,750,000	\$1,191,649
SDC Move Phase 2	\$8,022,269	\$412,440
OB2 Node Site	\$1,000,000	
OB2 Decommissioning	\$1,500,000	
Migrate WSP to SDC	\$2,000,000	
<b>Total</b>	<b>\$52,470,291</b>	<b>\$30,980,863</b>

#### Scope Key:

- G = No issues are impacting scope
- Y = Issues are being tightly managed, but may impact scope
- R = Unresolved issues are preventing progress of identified scope

#### Schedule Key:

- G = On schedule
- Y = Key milestones are more than 2 weeks late
- R = Key milestones are more than 8 weeks late

#### Budget Key:

- G = Planned spending is within 5% to 10% of agreed upon budget
- Y = Planned spending is within 11% to 20% of agreed upon budget
- R = Planned spending is greater than 20% of agreed upon budget

Note: Adjusted some Facilities Budget from Phase 1 to Phase 2, and removed some actuals found to be outside the project.

## WA State Consolidated Technology Services State Data Center Projects

\* SDC Firewall Infrastructure budget/actuals continue beyond implementation to span the first maintenance cycle.

### SDC Projects Status

Project	Planned for Next Reporting Period (October 13 – October 24)	Status of Work Performed this Reporting Period (October 13 – October 24)	Planned for Next Reporting Period (October 27 – November 7)
<b>SDC Program</b>	<ul style="list-style-type: none"> <li>• Continue to work on Design Decisions               <ul style="list-style-type: none"> <li>• SDC-012A OOB Management Design and Strategy – Signatures on hold pending completion of SDC-057.</li> <li>• SDC-040A Strategy to retire the OB-2 Cisco Fiber Channel Switches - Draft updated strategy to supersede SDC-040.</li> </ul> </li> <li>• SDC-046 Strategic Direction for PBX Services in OB-2. Reevaluate design decision.</li> <li>• SDC-055 SDC Fiber Channel Host- CSD to continue drafting the paper.</li> <li>• SDC-056A Strategic plan for the SMON in OB-2. Hold TSD meeting during week of October 21<sup>st</sup> and a schedule a meeting with SDC Architects the week of November 3<sup>rd</sup>.</li> <li>• SDC-057 Secure Remote Access to Networks and/or Devices in the SDC- Document design is on hold pending SSL VPN network project.</li> <li>• SDC-059 Fiber Connectivity to the SDC- Sent out for signature and approval.</li> <li>• SDC-060 Tiering Infrastructure Strategy Brief. Meet with CTO on October 21<sup>st</sup>.</li> <li>• SDC-062 OB-2 Campus Fiber Network Relocation Strategy. Create and add to the SDC Log. TSD to evaluate options.</li> </ul>	<ul style="list-style-type: none"> <li>• Continue to work on Design Decisions               <ul style="list-style-type: none"> <li>• SDC-012A OOB Management Design and Strategy – Out for Signature</li> <li>• SDC-040A Strategy to retire the OB-2 Cisco Fiber Channel Switches - Drafted updated strategy to supersede SDC-040.</li> </ul> </li> <li>• SDC-046 Strategic Direction for PBX Services in OB-2. Reevaluating design decision. Scheduled meeting with DSHS to discuss options and present requirements.</li> <li>• SDC-055 SDC Fiber Channel Host- CSD to continue drafting the paper.</li> <li>• SDC-056A Strategic plan for the SMON in OB-2. TSD held a meeting during week of October 21<sup>st</sup>. Scheduled a meeting with SDC Architects the week of November 3<sup>rd</sup>.</li> <li>• SDC-057 Secure Remote Access to Networks and/or Devices in the SDC- Security review held.</li> <li>• SDC-059 Fiber Connectivity to the SDC- Sent out for signature and approval.</li> <li>• SDC-060 Class of Service Brief. Incorporated edits, new version will be sent out for edits due by COB Friday November 7<sup>th</sup>.</li> <li>• SDC-062 OB-2 Campus Fiber Network Relocation Strategy. Created and added to the SDC Log.</li> </ul>	<ul style="list-style-type: none"> <li>• Continue to work on Design Decisions               <ul style="list-style-type: none"> <li>• SDC-012A OOB Management Design and Strategy – Complete signature gathering.</li> <li>• SDC-040A Strategy to retire the OB-2 Cisco Fiber Channel Switches – Continue drafting updated strategy to supersede SDC-040.</li> <li>• SDC-046 Strategic Direction for PBX Services in OB-2. Meet with DSHS and integrate requirements into design.</li> <li>• SDC-055 SDC Fiber Channel Host- CSD to continue drafting the paper.</li> <li>• SDC-056A Strategic plan for the SMON in OB-2. Meet on November 5<sup>th</sup> and document plan.</li> <li>• SDC-057 Secure Remote Access to Networks and/or Devices in the SDC- ESS to work on three items surfaced during the security review and rework document with new information.</li> <li>• SDC-059 Fiber Connectivity to the SDC- Receive signature and approval.</li> <li>• SDC-060 Class of Service Brief. Receive edits by Friday November 7<sup>th</sup>.</li> <li>• SDC-062 OB-2 Campus Fiber Network Relocation Strategy. TSD to evaluate options and work with SDC architect to document design recommendation.</li> </ul> </li> </ul>
<b>CTS Cloud Utility</b> Refresh Server Provisioning infrastructure and provide a cloud utility platform for CTS customers.	<ul style="list-style-type: none"> <li>• Continue to engage with pilot customers.</li> <li>• Test billing processes.</li> </ul>	<ul style="list-style-type: none"> <li>• Continued to engage with pilot customers.</li> <li>• Testing of billing processes.</li> <li>• Drafted operational readiness documents</li> </ul>	<ul style="list-style-type: none"> <li>• Conduct debrief with pilot customers/perform vCOPS Demo</li> <li>• Test billing processes.</li> <li>• Continue working on operational readiness tasks</li> <li>• Complete service readiness tasks</li> </ul>

Project	Planned for Next Reporting Period (October 13 – October 24)	Status of Work Performed this Reporting Period (October 13 – October 24)	Planned for Next Reporting Period (October 27 – November 7)
<p><b>Migrate WSP to SDC</b> Plan and execute the first phase of migrating the WSP data center to the SDC.</p>	<ul style="list-style-type: none"> <li>WSP to finalize network design and complete cut sheet</li> <li>Conduct Facility Consult for changes to existing SDC enclosures</li> </ul>	<ul style="list-style-type: none"> <li>WSP finalized network design. Network core cut sheet was not completed.</li> <li>Conducted Facility Consult for changes to existing SDC enclosures</li> <li></li> </ul>	<ul style="list-style-type: none"> <li>Meet with WSP to review network design</li> <li>WSP to complete network core cut sheet</li> <li>Create Colocation Quote for changes to existing SDC enclosures</li> </ul>
<p><b>Virtual Tape Library</b> Procure additional VTL equipment to eliminate the tape backup system and support mainframe disaster recovery.</p>	<ul style="list-style-type: none"> <li>Finalize contract negotiations with ASV.</li> <li>Finalize Statement of Work negotiations with ASV.</li> </ul>	<ul style="list-style-type: none"> <li>Did not finalize contract negotiations with ASV.</li> <li>Did not finalize Statement of Work negotiations with ASV.</li> </ul>	<ul style="list-style-type: none"> <li>Complete contract negotiations with ASV</li> <li>Complete Statement of Work negotiations with ASV</li> <li>Hold Implementation Workshop that is scheduled for November 4-5.</li> <li>Explore alternative options</li> </ul>
<p><b>SDC Move Phase 2</b> Continue the progress of Phase 1 by moving additional CTS equipment to the SDC.</p>	<ul style="list-style-type: none"> <li>Customer Moves into SDC                             <ul style="list-style-type: none"> <li>Conduct TIB Migration.</li> <li>Work with DOL to finalize High Level Migration Strategy for network core installation.</li> <li>Publish Colocation Quotes for DES and ISSD Messaging.</li> <li>Follow-up with DEL, DFI and OIC on work assignments.</li> <li>Work with DSHS to finalize High Level Migration Strategy for Nov. 14 ISSD Migration.</li> <li>Follow-up with COM on readiness status for scheduling High Level Consult</li> <li>Follow-up with SBCTC on equipment purchase design and take appropriate action for next steps based on decision.</li> <li>Conduct follow-up with King County on scheduling Orientation Session with new Project Manager and the project team.</li> </ul> </li> <li>Conduct High Level Consult with DES</li> </ul>	<ul style="list-style-type: none"> <li>Customer Moves into SDC                             <ul style="list-style-type: none"> <li>TIB Migration Postponed.</li> <li>Worked with DOL to finalize High Level Migration Strategy for network core installation.</li> <li>Published Colocation Quotes for DES and ISSD Messaging.</li> <li>Followed-up with DEL, DFI and OIC on work assignments.</li> <li>Nov. 14 ISSD Migration Postponed.</li> </ul> </li> <li>Followed-up with COM on readiness status for scheduling High Level Consult</li> <li>Followed-up with SBCTC on equipment purchase design. Agreed to meet with CTS to review equipment order.</li> <li>Scheduled Orientation Session with King County for Nov. 5.</li> <li>Conducted High Level Consult with DES</li> </ul>	<ul style="list-style-type: none"> <li>Customer Moves into SDC                             <ul style="list-style-type: none"> <li>Reschedule TIB Migration</li> <li>Continue to support DOL network core installation.</li> </ul> </li> <li>Follow-up with DEL, DFI and OIC on work assignments.</li> <li>Reschedule ISSD Migration</li> <li>Schedule meeting with SBCTC to review equipment purchase design</li> <li>Conduct Orientation Session with King County</li> <li>Finalize plans for Nov. 22 DEL Migration</li> <li>Finalize elevation design and cut sheet for DES Phase 3 migration</li> <li>Conduct planning for DES November and December migrations</li> <li>Conduct Orientation Session with OST</li> <li>Conduct Network Consults with DSHS ACES Mainframe</li> <li>Conduct Network Consult with DSHS ISSD</li> <li>Re-engage ESD on SDC Move Phase 2</li> </ul>

Project	Planned for Next Reporting Period (October 13 – October 24)	Status of Work Performed this Reporting Period (October 13 – October 24)	Planned for Next Reporting Period (October 27 – November 7)
	<ul style="list-style-type: none"> <li>• Server Moves                             <ul style="list-style-type: none"> <li>• FTI Servers                                     <ul style="list-style-type: none"> <li>• Complete the review of the IRS Firewall audit documents with CTS Security Management Team.</li> <li>• Work on installation of ESX and Virtual Servers on two new FTI VM Hosts with an expected completion date of 11/14/14.</li> </ul> </li> <li>• ATS Servers                                     <ul style="list-style-type: none"> <li>• Perform additional planning for the move of ATS Servers from OB2 to SDC</li> </ul> </li> </ul> </li> <li>• FamLink                             <ul style="list-style-type: none"> <li>• Provision UAT Servers</li> <li>• Configure UAT Servers</li> <li>• Meet to create a Network Diagram of the FamLink application</li> </ul> </li> <li>• Decommission TWPROD8 server</li> <li>• Network                             <ul style="list-style-type: none"> <li>• Plan migration strategy for Border 1 and Border 2 migrations.</li> <li>• TSD to make a decision on providing a sponsored enclosure.</li> <li>• Verify VLANS for Vendor Trunks</li> </ul> </li> <li>• Security                             <ul style="list-style-type: none"> <li>• IPSEC- Continue POX concept testing, continued use case testing, documenting results targeting completion by 11/21/2014</li> <li>• DNS                                     <ul style="list-style-type: none"> <li>• Migrate servers on 10/15 and 10/22.</li> </ul> </li> <li>• SSL VPN                                     <ul style="list-style-type: none"> <li>• Set up ASK site for documents</li> </ul> </li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Server Moves                             <ul style="list-style-type: none"> <li>• FTI Servers                                     <ul style="list-style-type: none"> <li>• Completed the review of the IRS Firewall audit documents with CTS Security Management Team.</li> <li>• Worked on installation of ESX and Virtual Servers on two new FTI VM Hosts with an expected completion date of 11/14/14.</li> </ul> </li> <li>• ATS Servers                                     <ul style="list-style-type: none"> <li>• Performed additional planning for the move of ATS Servers from OB2 to SDC</li> </ul> </li> </ul> </li> <li>• FamLink                             <ul style="list-style-type: none"> <li>• Met with ESS team to discuss load balancing and web application firewall</li> <li>• Completed Firewall rule for UAT &amp; Production environments</li> </ul> </li> <li>• Decommissioned TWPROD8 Server</li> <li>• Network                             <ul style="list-style-type: none"> <li>• Continued planning migration strategy for Border 1 and Border 2 migrations.</li> <li>• TSD made a decision to not provide a TSD sponsored enclosure</li> <li>• Didn't verify VLANS for Vendor Trunks</li> </ul> </li> <li>• Security                             <ul style="list-style-type: none"> <li>• IPSEC- Continued POX concept testing, continued use case testing, documenting results targeting completion by 11/21/2014</li> <li>• DNS                                     <ul style="list-style-type: none"> <li>• Migrated server on 10/15</li> <li>• Did not complete 10/22 migration</li> </ul> </li> <li>• SSL VPN                                     <ul style="list-style-type: none"> <li>• Completed setting up ASK site for documents</li> <li>• Attended training sessions</li> </ul> </li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Server Moves                             <ul style="list-style-type: none"> <li>• FTI Servers                                     <ul style="list-style-type: none"> <li>• Send the IRS Firewall audit document to LNI for their review</li> </ul> </li> <li>• Continue to work on the installation of ESX and Virtual Servers on two new FTI VM Hosts with an expected completion date of 11/14/14.</li> <li>• ATS Servers                                     <ul style="list-style-type: none"> <li>• Clone ATS Test Servers</li> <li>• Develop firewall rules</li> <li>• Provide quote and provision ATS OSS Servers</li> </ul> </li> <li>• FamLink                                     <ul style="list-style-type: none"> <li>• Provision UAT Servers</li> <li>• Configure UAT Servers</li> <li>• Meet to create a Network Diagram of the FamLink application</li> </ul> </li> </ul> </li> <li>• Decommission Group 14</li> <li>• Network                             <ul style="list-style-type: none"> <li>• Continue planning migration strategy for Border 1 and Border 2 migrations.</li> <li>• Schedule meeting to verify VLANS for Vendor Trunks</li> </ul> </li> <li>• Security                             <ul style="list-style-type: none"> <li>• IPSEC- Continue POX concept testing, continued use case testing, documenting results targeting completion by 11/21/2014</li> <li>• DNS                                     <ul style="list-style-type: none"> <li>• Reschedule 10/22 cancellation</li> </ul> </li> <li>• SSL VPN                                     <ul style="list-style-type: none"> <li>• Start reviewing Network sheets from customers</li> <li>• Schedule kick-off meeting for customers</li> </ul> </li> </ul> </li> </ul>

Project	Planned for Next Reporting Period (October 13 – October 24)	Status of Work Performed this Reporting Period (October 13 – October 24)	Planned for Next Reporting Period (October 27 – November 7)
<b>OB2 Equipment Room</b> Move remaining equipment to reconfigured space in OB2.	<ul style="list-style-type: none"> <li>Meet with DES and DSHS teams to discuss plans.</li> </ul>	<ul style="list-style-type: none"> <li>Met with DES and DSHS teams to discuss plans.</li> </ul>	<ul style="list-style-type: none"> <li>No activity planned for next reporting period.</li> </ul>
<b>OB2 Decommissioning</b> Discontinue use of OB2.	<ul style="list-style-type: none"> <li>No activity planned for next reporting period.</li> </ul>	<ul style="list-style-type: none"> <li>No activity planned for next reporting period.</li> </ul>	<ul style="list-style-type: none"> <li>No activity planned for next reporting period.</li> </ul>

### External Project Collaboration

Project	Planned for Next Reporting Period (October 13 – October 24)	Status of Work Performed this Reporting Period (October 13 – October 24)	Planned for Next Reporting Period (October 27 – November 7)
<b>Firewall Migrations</b> Migrate 95+ firewalls to the SDC.	<ul style="list-style-type: none"> <li>Receive possible migration dates from SAO</li> <li>Schedule DFW migration</li> <li>Schedule WAK migration</li> <li>AAMVA testing</li> </ul>	<ul style="list-style-type: none"> <li>Received possible migration dates from SAO</li> <li>Tentatively scheduled DFW migration</li> <li>Tentatively scheduled WAK migration</li> <li>Cancelled AAMVA testing and migration was rolled back</li> </ul>	<ul style="list-style-type: none"> <li>Reschedule AAMVA migration</li> <li>Confirm FW-Alacarte migration dates with customers</li> </ul>
<b>Hypervisor Firewall</b> Deploy new security solution.	<ul style="list-style-type: none"> <li>Activate TAP on 5 app groups</li> <li>Schedule TAP on 2 app groups</li> </ul>	<ul style="list-style-type: none"> <li>Activated TAP on 5 app groups (4 remaining)</li> <li>Scheduled Prevent on 1 app group</li> </ul>	<ul style="list-style-type: none"> <li>Schedule TAP on 4 app groups</li> <li>Activate TAP on 4 app groups</li> <li>Schedule Prevent on 3 app groups</li> <li>Activate Prevent on 4 app groups</li> </ul>
<b>Avamar</b> Design, acquire, implement and migrate existing Avamar data to the upgraded solution.	<ul style="list-style-type: none"> <li>Complete and submit new CSR with Firewall Rule Request Form</li> <li>Submit new CSR - quote request for Data Protection Advisor VM servers</li> <li>Schedule EMC/Unisys Avamar Implementation Teams (SDC/Spokane)</li> <li>Continue Avamar Training sessions</li> </ul>	<ul style="list-style-type: none"> <li>New CSR created</li> <li>New CSR created for DPA VM server quote</li> <li>EMC Implement teams scheduled for 11/19</li> <li>Continue Avamar Training sessions</li> </ul>	<ul style="list-style-type: none"> <li>Firewall Rule Request Form submitted 10/31</li> <li>Continue Avamar Training sessions</li> <li>Configure switches in SDC and SPO</li> </ul>
<b>Sunset TSM</b> Sunset service and decommission infrastructure.	<ul style="list-style-type: none"> <li>Identify/remove invalid nodes - (ongoing)</li> <li>Identify and determine validity of long term data (&gt;90days) - (ongoing)</li> <li>Developing FAQs - (ongoing)</li> <li>Planning/Developing ASK site</li> <li>Publish Service Announcement</li> </ul>	<ul style="list-style-type: none"> <li>Identify/remove invalid nodes - (ongoing)</li> <li>Identify and determine validity of long term data (&gt;90days) - (ongoing)</li> <li>Developing FAQs - (ongoing)</li> <li>Planning/Developing ASK site – in progress</li> <li>Publish Service Announcement - in progress</li> </ul>	<ul style="list-style-type: none"> <li>Identify/remove invalid nodes - (ongoing)</li> <li>Identify and determine validity of long term data (&gt;90days) - (ongoing)</li> <li>Developing FAQs - (ongoing)</li> <li>Planning/Developing ASK site</li> <li>Publish Service Announcement - Complete</li> <li>Schedule customer events</li> </ul>

Project	Planned for Next Reporting Period (October 13 – October 24)	Status of Work Performed this Reporting Period (October 13 – October 24)	Planned for Next Reporting Period (October 27 – November 7)
<b>Elimination of the 9509 SAN Switches</b>	<ul style="list-style-type: none"> <li>Develop Charter</li> </ul>	<ul style="list-style-type: none"> <li>Continued developing Charter</li> </ul>	<ul style="list-style-type: none"> <li>Continue developing Charter</li> <li>Schedule Kick-off Mtg</li> </ul>

**Top Issues \***

**Issue Key:** *Green* = Issue does not require action within 30 days, *Yellow* = Issue requires action within 30 days, *Red* = Issue requires action within 10 days or less

Issue #	Summary Description	Assigned	Priority (R,Y,G)	Opened Date/by	Next Review Date	Target Resolution Date	Comments/Resolution	Status
259	Need to mitigate both CTS and customer FTE constraints for planning and executing A la Carte moves.	Heidi	<b>G</b>	9/27/13	11/19/14	11/30/14	Multiple competing projects and staff turn-over indicates this will continue to be an issue that needs continued mitigation.	Open
N/A	VTL RFP release delay is impacting project schedule.	Kay	<b>R</b>	4/4/2014	11/19/14	11/30/14	Contract negotiations are behind schedule. Quick turn-around on drafts is pivotal to keeping the schedule from further delay.	Open
N/A	CTS needs to determine a consistent approach for business partner routers and communicate with customer.	Doug	<b>Y</b>	9/26/2014	11/19/14	11/30/14	Business partner routers will be moved into the sponsoring agencies enclosure.	To be Closed

**Issues Closed this Period**

Issue #	Summary Description	Assigned	Priority (R,Y,G)	Opened Date/by	Next Review Date	Target Resolution Date	Resolution	Status
270	The complete inventory of fiber needs to support customer migrations is unknown and needs to be identified.	Molly	<b>Y</b>	5/9/14	11/19/14	10/31/14	The project team has finalized all customer requirements and TSD is working to implement where there are gaps.	Closed

**Change Requests \***

No.	Description	Requestor	Request Date	Assigned	Cost Impact	Schedule Impact	Status
	N/A						

Status (Submitted, Proposal, Approved, Opened, Resolved, Verified, Closed)

**Top 3 Risks \***

ID	Risk Description	Risk Category	Level of Impact	Likelihood	Schedule	Ability to Meet Deadline	Risk Mitigation Comment	Due Date & Action	Assigned To
1	Because the project is large and includes substantial logistical challenges involving multiple projects/agencies, interdependencies will be complex and could be overlooked.	Man	1	R	G	G	<ul style="list-style-type: none"> <li>o Apply project management practices to manage the effort.</li> <li>o Break the work down into small and logical units.</li> <li>o Use tools to track tasks, dependencies, issues, risks, etc. and automate the planning and communications as much as possible.</li> <li>o Implement migration approaches that minimize impacts of system dependencies, such as spanning the network between the OB2 and SDC data centers.</li> <li>o Use development and test platforms to verify system dependencies.</li> </ul>	Ongoing	Sr. Project Manager
2	Even though the scope has been reduced to better match the budget, it may be insufficient. Several items remain unfunded.	Res	1	R	G	G	<ul style="list-style-type: none"> <li>o Request funding for unfunded projects</li> <li>o Identify other funding sources (if possible)</li> <li>o Reduce project scope</li> <li>o Back-log unfunded projects</li> </ul>	Ongoing	CTO
3	Resource Conflicts – Program relies on functional staff with competing priorities.	Res	1	R	G	Y	<ul style="list-style-type: none"> <li>o Provide clear management guidance on priorities and carefully manage functional staff to minimize conflicts in priorities and work tasks.</li> <li>o Expand resource management and track task assignments to the resource level. Identify areas in the plan where resource loading indicates a problem and take appropriate action.</li> </ul>	Ongoing	Sr. Project Manager

**Risk Category** = (Res)ources; (Man)agement; (Tec)hnology; (Fun)ctional; (Dev)elopment; (Int)erfaces; (Sec)urity; (Usa)bility; (Ava)ilability; (Per)formance; (Cap)acity; (Sca)lability; (Ext)ernal.

**Level of Impact Key:**

- 1=major impact
- 2=significant impact
- 3=minor impact
- 0=no impact

**Likelihood Key:**

- G = Low.
- Y = Moderate
- R = High

**Schedule Key:**

- G = on schedule
- Y = Less than 30 days behind schedule (caution)
- R = More than 30 days behind schedule (warning)

**Ability to Meet Deadline Key:**

- G = based on current information, it appears manageable
- Y = there are significant obstacles or areas of uncertainty or concerns
- R = there are clearly identifiable threats or deterioration of ability to manage and control