

WA State Consolidated Technology Services State Data Center Program

Prepared By:	Consolidated Technology Services
Date: 6/28/2012	Period Covered: June 09 to June 22

SDC Projects Status

Project	Completed in this Reporting Period (June 09 – June 22)	Planned for Next Reporting (June 23 – July 6)	S C O	S C H	B U D
SDC Program	<ul style="list-style-type: none"> • Firewall, Network Core and Storage investment plans have been approved by the OCIO. • Continued work with project owners to update their portions of the overall project schedule. • SDC Architects worked with internal stakeholders and subject matter experts to draft solutions for fiber connectivity within OB2 and between OB2 and the SDC. Other designs for management sign-off: <ul style="list-style-type: none"> ○ VLAN strategy ○ VMAX physical security ○ Security gateway virtualization ○ Placement of 9513 (SAN) switches in the SDC • Established some Microsoft Project standards to allow individual project plans to be easily rolled up into an overall program plan. • Worked with Finance staff to ensure project budget items were accounted for in the agency's budget and to assist with CTS rate setting. 	<ul style="list-style-type: none"> • Continue refinement of the project schedule. • Continue facilitation and management of the design decision process. • Finalize the SDC Program Management Plan. • Continue refining the solution for fiber connectivity within OB2 and between OB2 and the SDC. • Post SDC Project updates to the CTS Internet website. 			
OB2 Heat Reduction Reduce the amount of heat being generated in the OB2 data center and provide an incident response plan.	<ul style="list-style-type: none"> • Approximately 25 data collection templates sent to agency occupants of OB2 data center for the purpose of determining their plans to reduce the number of, or turn off existing devices. • Followed up with agencies that have not yet turned in templates including ESD and ATG; TSD still working on completing. • ESD requested additional time to complete as they are in the midst of a major change in equipment. We agreed to regroup with them in about two weeks. • Compiled results from templates including total number of devices, devices already shut down and devices planned to be shut down. • Met with SDC facilities to review progress on inputting data into DCIM tool. May take until mid August to complete data input. 	<ul style="list-style-type: none"> • Provide results from templates to project sponsors. • Schedule follow-up meeting with ESD to determine when template is expected to be completed. • Continue work on draft report 			
SDC Facilities Prepare the SDC facility for customers. Includes preparing the critical environment	<p><u>Critical Environment:</u></p> <ul style="list-style-type: none"> • DC power design is in progress; awaiting TSD requirements. • Furniture layout determined for CE control room; awaiting final pricing from CI. <p><u>Physical Security:</u></p>	<p><u>Critical Environment:</u></p> <ul style="list-style-type: none"> • Awaiting TSD design requirements before DC power design and procurement process can begin • Plan to submit purchase order for furniture. <p><u>Physical Security:</u></p>			

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(electrical/mechanical), floor space and physical security for customers.	<ul style="list-style-type: none"> Met w/ vendor to define requirements for quote on security separation between SDC & 1500 Jefferson. Reviewed consultant’s proposal for scope of work for perimeter security - decided to reassess vendor selection which is underway now. New Security Office under construction; basic construction expected to be completed 6/30. Configuration for occupancy expected to be completed 8/2. Additional Access Control Devices including video and cards being installed – planned to be completed 7/30. <p><u>Space Management:</u></p> <ul style="list-style-type: none"> Provider space (entrance facility) waiting for requirements from TSD. Working with OLS on procurement process for the Cable Management Documentation Software Technology Lab currently occupied by TSD for inventory of Cisco gear. This has delayed lab configuration. Begin planning for moving NCC from OB2 into the SDC support space. 	<ul style="list-style-type: none"> Expect to receive quote from ASG for security separation on 6/27 Continue construction of the Security Office Continue installation of Access Control Devices <p><u>Space Management:</u></p> <ul style="list-style-type: none"> Submit internal request to procure Cable Management Documentation Software Receive Technology Lab enclosures and benches. 			
<p>SDC Network Core Establish the network core in the SDC and connect with the OB2 network.</p>	<ul style="list-style-type: none"> Received approval for Investment Plan. Modified project schedule to align with SDC Program requirements. Sent out 1st draft of Project Charter for TSD review. Selected Walker & Associate as the ASV for GPS (Timing Generator) Antenna equipment purchase and installation. Worked on last phase of the Equipment Inventory to capture serial numbers and move equipment to new secure location. Held weekly conference call with Cisco and CenturyLink to review status of Cisco equipment Inventory, and Rack & Stack and Engineering contract update, and explore options for re-engaging in early July. Worked on changes to terms and conditions for CenturyLink Rack & Stack and Engineering contracts. Worked on Nexus 5K/7K testing of MPLS and Fabric Path functionality in OB2 Test Lab. Worked on SDC VLAN Design Decision. Worked on OOB/FOOB Design Decision for SDC. Worked on SDC/OB2 fiber path to support (OB2) Cisco M6 and CRS equipment moves to SDC. Worked on finalizing location of equipment in SDC Data Hall 1. Provided CenturyLink and Cisco a list of missing (SFP) parts. 	<ul style="list-style-type: none"> Continue refinement of project schedule once CenturyLink contracts are amended and Cisco re-engagement begins. Final review and approval of Project Charter. Continue work on CenturyLink contract Terms & Conditions. Continue work on CenturyLink Statement of Work updates for Cisco Rack & Stack and Engineering efforts. Continue to work with CenturyLink and Cisco on shipment of missing (SFP) parts. Continue to work with CenturyLink and Cisco to re-engage and begin work on engineering effort in early July (two months earlier than planned). Continue work on (OB2 Lab) testing of 5K and 7K - MPLS and Fabric Path functionality required for SDC Network Core. Continue to work on final phase of Equipment Inventory to capture equipment serial numbers and move inventory to new secure location in SDC. Continue to work on finalizing contract with Walker & Associates for GPS Antenna equipment purchase and installation. Place order for cable for GPS antenna. 			

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		<ul style="list-style-type: none"> Complete work on location of equipment in SDC Data Hall 1. Continue work on SDC/OB2 fiber path to support (OB2) Cisco M6 and CRS equipment moves to SDC. Continue work on SDC VLAN Design Decision. Continue work on OOB/FOOB Design Decision for SDC. 	Yellow	Yellow	Green
SDC Firewall Project Replace aged and over-capacity firewalls and deliver enhanced data security services to both OB2 and the SDC.	<ul style="list-style-type: none"> Submitted Investment Plan for Review and Approval Contract scheduled to be signed by Christy 	<ul style="list-style-type: none"> Investment Plan approved. Planning process can begin based on contract signing 	Green	Yellow	Green
SDC Storage Optimization Replace aged systems and optimize the environment to reduce rates.	<ul style="list-style-type: none"> RFQQ issued ESRS design completed High Level Design completed 	<ul style="list-style-type: none"> Continue to develop and document Storage Business and Administrative Processes EMC Secure Remote Support Gateway (ESRS) server build Continue Design Discussions with SDC Architects 	Yellow	Yellow	Green
CTS Cloud Utility Service Provide a Cloud utility platform for CTS customers.	<ul style="list-style-type: none"> No activity planned or taken during this reporting period. 	<ul style="list-style-type: none"> No activity planned during this reporting period. 	Grey	Grey	Grey
OB2 Risk Mitigation (CTS Move Phase 1) Move selected CTS equipment that best alleviates the heat issue in OB2.	<ul style="list-style-type: none"> Drafted a work breakdown structure for Move Phase 1. Received risk assessments for portions of Move Phase 1. Several areas are still outstanding. 	<ul style="list-style-type: none"> Continue refinement of project task plan and schedule. Continue drafting the investment plan including budget. Complete the risk assessment 	Yellow	Yellow	Green
Migrate WSP to SDC Explore the possibility of moving the WSP data center to the SDC.	<ul style="list-style-type: none"> Drafted project task plan and schedule. This is under review by WSP. No additional items were identified for the WSP cost model (pending feedback from WSP). Followed-up with WSP on outstanding action items including verification from the FBI on physical security requirements. 	<ul style="list-style-type: none"> Receive feedback from WSP on cost model items and project task plan and schedule. Schedule ongoing work sessions. 	Green	Green	Green
Virtual Tape Library Disaster Recovery (VTL) Procure additional VTL	<ul style="list-style-type: none"> No activity was planned or performed for this reporting period. 	<ul style="list-style-type: none"> No activity planned for next reporting period. 	Grey	Grey	Grey

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equipment to eliminate the tape backup system and support mainframe disaster recovery.					
OB2 Risk Mitigation (CTS Move Phase 2) Continue the progress of Phase 1 by moving additional CTS equipment to the SDC.	<ul style="list-style-type: none"> No activity was planned or performed for this reporting period. This project is currently unfunded. 	<ul style="list-style-type: none"> No activity planned for next reporting period. 			
OB2 Data Center Optimization Reconfigure remaining equipment in OB2 to optimize airflow and cooling.	<ul style="list-style-type: none"> No activity was planned or performed for this reporting period. This project is currently unfunded. 	<ul style="list-style-type: none"> No activity planned for next reporting period. 			

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

External Project Collaboration

External Project	Completed in this Reporting Period (June 09 – June 22)	Planned for Next Reporting (June 23 – July 6)
Server Virtualization Virtualize CTS physical servers.	<ul style="list-style-type: none"> DOHW2WEBQ - Migrate to virtual complete. TSD OSS Servers – Some testing “OSS Workflow” in the Test environment. Virtualized SSVAPOLYTS1D (Teamsite Dev). 	<ul style="list-style-type: none"> Decommission DOHW2WEBQ server. TSD OSS Servers - Further testing of the OSS Workflow & get the Production virtualization re-scheduled. Prep for the Virtualization of the Teamsite production servers (SSVAPOLYTS1P & SSVDBOLYJR2).
Command Center Establish command center support for the SDC.	<ul style="list-style-type: none"> Waiting on a decision to determine the location of Command Center in the SDC or 1500 Jefferson Building before additional planning can be completed. 	<ul style="list-style-type: none"> No action planned.
Replace Cisco MDS 9509 SAN Fabric Switches	<ul style="list-style-type: none"> Storage architects are architecting a solution. Once a solution has been developed, a project manager can be assigned. 	<ul style="list-style-type: none"> Continue development of the architectural solution for the SAN switches.

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Replace SAN fabric switches in OB2 that are at end of vendor support.		
VLAN Renumbering Optimize VLAN numbering	<ul style="list-style-type: none"> Drafted a high level work breakdown structure. Identified a project manager for this project. 	<ul style="list-style-type: none"> Turnover the charter to the project manager.

Top 5 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	Resolution	Status
147	The SDC has a physical security requirement that all access to enclosures be controlled and logged. This requirement is met by equipping enclosures with a proximity security door lock system. The VMAX comes with a key lock system. This system does not meet the access control or logging requirements of the SDC.	CSD/SDC Facilities	Y	1/27/12	6/15/12	6/15/12	<i>Enclosure vendor is working with CTS and EMC to build a solution. This satisfies CTS requirements and the issue is closed</i>	Closed
195	The fiber installed to connect OB2 and the SDC was a temporary solution under the original plan and has become a permanent solution under the current plan. Designs need to be altered and a different management plan is needed to adjust to this change.	SDC	Y	6/5/2012	7/19/2012	7/20/2012	<i>Fiber connectivity between the buildings needs to be re-addressed due to changes in the use of The SDC and OB2. A group is being formed to address this design issue</i>	Open
145	Potential SDC Customers will need to know the billing rates for SDC products and services before they move into the SDC. Both DSHS and WSP have stated that they will not move into the SDC until they know what ongoing operations will cost.	Finance	Y	3/16/21	7/19/12	9/1/12	<i>The CTS Finance group continues to work this.</i>	Open
134	Will agencies be allowed to bring their corporate networks into the SDC? This impacts network routing, top-of-rack switches and firewalls as these components would come with an agency corporate network.	TSD	G	11/4/11	7/19/12	9/1/12		Open
156	The SDC Business Plan and Operational Model work has not been identified or assigned. Access control policies and procedures need to be completed.	SDC	G	5/2/12	7/19/12	9/1/12		Open

* New or changed items in bold italics

Change Requests *

No.	Description	Requestor	Request Date	Assigned	Cost Impact	Schedule Impact	Status
001	There are no change requests at this time.						

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

* New or changed items in bold italics

Top 5 Risks *

ID	Risk Description	Risk Category	Level of Impact	Likelihood	Schedule	Ability to Meet Deadline	Risk Mitigation Comment	Due Date & Action	Assigned To
1	Customers that were expecting to come into the SDC right away must now wait longer, which has end of life/investment implications	Man	3	R	G	G	Communicate with customers the new plan and schedule.	Ongoing	Program Manager
2	Timing may force a need to place hardware in OB2, which has an adverse impact on the heat reduction effort.	Cap	2	Y	G	G	<ul style="list-style-type: none"> Work with customers to identify solutions that minimize additional heat in OB2. Institute OB2 heat reduction initiatives to turn off unused servers Delay implementation of new hardware in OB2 as late as possible 	Ongoing	Facilities
3	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"> Apply project management practices to manage the effort. Break the work down into small and logical units. Use tools to track tasks, dependencies, issues, risks, etc. and automate the planning and communications as much as possible. Implement migration approaches that minimize impacts of system dependencies, such as spanning the network between the OB2 and SDC data centers. Use development and test platforms to verify system dependencies. 	Ongoing	Sr. Project Manager

ID	Risk Description	Risk Category	Level of Impact	Likelihood	Schedule	Ability to Meet Deadline	Risk Mitigation Comment	Due Date & Action	Assigned To
4	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"> Request funding for unfunded projects Identify other funding sources (if possible) Reduce project scope Back-log unfunded projects 	Ongoing	Program Manager
5	Resource Conflict – Program relies on functional staff with competing priorities.	Res	1	R	G	Y	<ul style="list-style-type: none"> Provide clear management guidance on priorities and carefully manage functional staff to minimize conflicts in priorities and work tasks. 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. 	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.

* New or changed items in bold italics

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

Steering Committee Action Items

Item #	Item Description	Assigned	Date Assigned	Date Due
1	No pending action items			