



Consolidated Technology Services • WA

Agenda

SDC Projects Steering Committee

June 21, 2012
3:00 pm to 4:00 pm
Conference Room 2332

- Introductions
- Milestone Report
- Status Report
- Other

SDC Projects Milestone Report

Updated: 6/20/12

ID	Task Name	Finish	Status 5/10/12	Status 6/10/12	Status 7/10/12	Half 1, 2012							Half 2, 2012					Half 1, 2013					Half 2, 2013															
						D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J							
1694	VMAX is Delivered	10/8/12		-25 days										8/31	★	→	10/8																					
1695	Hardware and Software Install & Configure	12/5/12	5 days	-15 days													11/9	★	→	12/5																		
1696	Test & Acceptance	3/26/13																																				
1697	Test (standalone VMAX & Software)	1/8/13		-10 days																																		
1698	Network Core and SAN Switches Certified	3/8/13		-32 days																																		
1699	VMAX Ready for Operation	3/26/13		-32 days																																		
1700	CTS Cloud Utility Service (Pending Approval)																																					
1701	OB-2 Risk Mitigation (CTS Move Ph1) (Pending Approval)																																					
1702	Virtual Tape Library (VTL) (Pending Approval)																																					
1703	OB-2 Risk Mitigation (CTS Move Ph2) (Pending Approval)																																					
1704	OB2 Data Center Optimization (Pending Approval)																																					
1705	Migration of WSP (Pending Approval)																																					



WA State Consolidated Technology Services State Data Center Program

Prepared By:	Consolidated Technology Services
Date: June 12, 2012	Period Covered: May 28 to June 8

SDC Projects Status

Project	Completed in this Reporting Period (May 28 – June 8)	Planned for Next Reporting (June 9 – June 22)	S C O	S C H	B U D
SDC Program	<ul style="list-style-type: none"> Waiting for OCIO approval for the Firewall and NWC Investment Plans. The Storage Investment Plans was approved by the OCIO. Continued work with project owners to update their portions of the overall project schedule. Worked on several intra-division design decisions. Identified enclosure space in OB2 to house the Department of Enterprise Services' (DES) new equipment. This meets their immediate need for enclosure space as the SDC will not be ready in time to meet the DES schedule. 	<ul style="list-style-type: none"> Gain OCIO approval for the Firewall and the NWC investment plans. Continue refinement of the project schedule. Continue facilitation and management of the design decision process. Finalize the SDC Program Management Plan. 			
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 in early April; have received all but 3 templates. Followed up with ESD, DEL, ATG & TSD regarding templates. Reviewed preliminary results with reps from SDC Program and SDC Facilities; discussed report content. Scheduled meeting to discuss projects with ESD. 	<ul style="list-style-type: none"> Follow-up with agencies regarding information missing from templates. Meet w/ ESD to discuss project Outline draft report Meet with SDC Facilities to review progress on inputting data into DCIM tool. 			
SDC Facilities Prepare the SDC facility for customers. Includes preparing the critical environment (electrical/mechanical), floor space and physical security for customers.	<p><u>Critical Environment:</u></p> <ul style="list-style-type: none"> DC power design is in progress; awaiting TSD requirements. Reviewing proposed furniture layout for CE control room <p><u>Physical Security:</u></p> <ul style="list-style-type: none"> Met w/ vendor to define requirements for quote on security separation between SDC & 1500 Jefferson. Consultant is reviewing the design for perimeter security. New Security Office is under construction Access Control Devices are being installed <p><u>Space Management:</u></p> <ul style="list-style-type: none"> Provider space (entrance facility) waiting for reqs from TSD. Begin procurement process for the Cable Management Documentation Software Technology Lab is currently occupied by TSD for inventory of Cisco gear. This has delayed the lab configuration. Begin planning for moving NCC from OB2 into the SDC support space. 	<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 <p><u>Physical Security:</u></p> <ul style="list-style-type: none"> Expect to receive quote from ASG 6/21 Define scope of work for contract documents for perimeter security consultant 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. 			

Project	Completed in this Reporting Period (May 28 – June 8)	Planned for Next Reporting (June 9 – June 22)	S C O	S C H	B U D
<p>SDC Network Core Establish the network core in the SDC and connect with the OB2 network.</p>	<ul style="list-style-type: none"> • Provided the SDC PO clarification on Rack & Stack and Engineering contracts and pricing to support Gardner review. • Updated detail project schedule with dependencies and resources. • Drafted new Project Charter. • Worked with SDC Program Office and Storage groups on options for storage in SDC. • Issued an RFQ for GPS (Timing Generator) Antenna and Server equipment purchase. • Completed phase 1 of Cisco equipment inventory to match BOM with physical inventory, and separate inventory into OB2, SDC, TBD groups. • Held weekly conference with Cisco and CenturyLink to review status of Cisco equipment Inventory, and Rack & Stack and Engineering contract update. • CTS Contracts sent CenturyLink changes to Rack & Stack and Engineering contract terms and conditions. • Worked on Nexus 5K/7K testing of MPLS and Fabric Path functionality in OB2 Test Lab. • Met with DES and CTS Finance group to discuss requirements and process for assigning and tagging new Cisco equipment with State (Asset) Tags. 	<ul style="list-style-type: none"> • Gain CTS and OCIO approvals for Investment Plan. • Continue refinement of project schedule once CenturyLink contracts are amended. • Final review and approval of Project Charter. • Continue work on CenturyLink Statement of Work Update for Cisco Rack & Stack and Engineering efforts. Contract approval is pending approval of Investment Plan. • Continue work on (OB2 Lab) testing of 5K and 7K - MPLS and Fabric Path functionality required for SDC Network Core. • Begin work on final phase of Equipment Inventory to capture equipment serial numbers and move inventory to new secure location in SDC. • Continue work on GPS equipment purchase – announce ASV and negotiate contract. • Continue work with Cisco and CenturyLink to prepare for re-engagement. • Continue work on SDC Design Decisions. • Continue to work with other SDC projects to fine tune project schedule. • Resolve discrepancies found in Cisco equipment inventory. • Place order for cable for GPS antenna. 			
<p>SDC Firewall Project Replace aged and over-capacity firewalls and deliver enhanced data security services to both OB2 and the SDC.</p>	<ul style="list-style-type: none"> • Submitted Investment Plan for Review and Approval 	<ul style="list-style-type: none"> • Receive approval on Investment Plan • Sign contract • Engage with vendor to refine planning 			
<p>SDC Storage Optimization Replace aged systems and optimize the environment to reduce rates.</p>	<ul style="list-style-type: none"> • Investment Plan reviewed and approved 	<ul style="list-style-type: none"> • OLS releases RFQQ • Document Storage Business and Administrative Processes • Initiate EMC Secure Remote Support Gateway (ESRS) software installation • Finalize High Level Design 			
<p>CTS Cloud Utility Service Provide a Cloud utility platform for CTS customers.</p>	<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. 			

Project	Completed in this Reporting Period (May 28 – June 8)	Planned for Next Reporting (June 9 – June 22)	S C O	S C H	B U D
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"> Re-started meetings with Service Owners and project managers to develop the work breakdown structure (WBS) and schedule for CTS Move Phase 1. This will feed the investment plan. 	<ul style="list-style-type: none"> Conduct work sessions to develop the project WBS and schedule. Perform a risk assessment required for the investment plan. Continue drafting the investment plan. 			
Migrate WSP to SDC Explore the possibility of moving the WSP data center to the SDC.	<ul style="list-style-type: none"> Met with WSP to finalize WSP physical security requirements and how CTS will meet them. No requirements were identified that require a fenced cage for WSP equipment as the SDC physical security has been elevated to meeting state and federal standards. The team developed budget estimates for cost related items where possible. WSP needs a cost model to allow decision making and budgeting for SDC expenses (onetime and ongoing costs). 	<ul style="list-style-type: none"> Continue development of a cost model to allow WSP to make a decision to move or not. Develop Phase 1 project schedule. Schedule follow-on work sessions as needed. 			
Virtual Tape Library Disaster Recovery (VTL) Procure additional VTL equipment to eliminate the tape back up system and support mainframe disaster recovery.	<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. 			
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. 			

External Project Collaboration

External Project	Completed in this Reporting Period (May 28 – June 8)	Planned for Next Reporting (June 9 – June 22)
Server Virtualization Virtualize CTS physical servers.	<ul style="list-style-type: none"> Met with technicians to identify “server move groups”. Research server VLANs. 	<ul style="list-style-type: none"> Continue to identify the “server move groups”. Identify resources for VLAN renumbering and begin planning.
Command Center	<ul style="list-style-type: none"> Waiting on a decision to determine the location of Command Center 	<ul style="list-style-type: none"> No action planned.

External Project	Completed in this Reporting Period (May 28 – June 8)	Planned for Next Reporting (June 9 – June 22)
Establish command center support for the SDC.	in the SDC or 1500 Jefferson Building before additional planning can be completed.	
Replace Cisco MDS 9509 SAN Fabric Switches Replace SAN fabric switches in OB2 that are at end of vendor support.	<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.
VLAN Renumbering Optimize VLAN numbering	<ul style="list-style-type: none"> Drafted a project charter for renumbering VLANS. This is required when the OB2 network is extended to the SDC and services are run over the network core. 	<ul style="list-style-type: none"> Continue work on Project Charter for VLAN changes. Identify a project manager for the project moving forward. Identify initial WBS.

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	EMC has engaged the SDC enclosure vendor to provide a solution. Waiting for final design before closing the issue. Steering Committee Update: Still waiting on vendor to provide design	Open
152	The 9509 fabric switches in OB2 data center will reach End-of-Service Life in September 2012. A plan must be designed to migrate connections from the 9509 to the OB2 9513 fabric switches and acquire additional port modules to build ISL trunks to the SDC 9513's	CSD	Y	4/27/12	6/15/12	6/15/12	Storage architects are developing a design solution. Steering Committee Update: Design indicates this is no longer in critical path.	To Be 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	7/1/2012	7/6/2012	Steering Committee Update: Added to Top 5	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	Finance	Y	3/16/21	7/15/12	9/1/12	The CTS Finance group continues to work this.	Open

Issue #	Summary Description	Assigned	Priority (R,Y,G)	Opened Date/by	Next Review Date	Target Resolution Date	Resolution	Status
	operations will cost.							
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	6/15/12	7/1/12		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	7/15/12	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

ID	Risk Description	Risk Category	Level of Impact	Likelihood	Schedule	Ability to Meet Deadline	Risk Mitigation Comment	Due Date & Action	Assigned To
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
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. <i>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.</i> 	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

Schedule Key:

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

Likelihood Key:

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

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			