

WA State Consolidated Technology Services State Data Center Program Status Report

Prepared By:	Consolidated Technology Services	Schedule: G
Period Covered:	May 9- May 29	Budget: G
Date: May 30, 2012		Scope: Investment Plans Pending Approval

SDC Projects Status

Project	Completed in this Reporting Period (May 9 – May 29)	Planned for Next Reporting (May 30 – June 11)
SDC Program	<ul style="list-style-type: none"> Worked with Service Owners to refine investment plans for Firewall, Network Core and Storage. Obtained internal approval for the Firewall and Network core investment plans. Both have been sent to the OCIO for approval. Implemented the project status reporting process. Continued work with project owners to update their portion of the overall project schedule. Worked on several intra-division design decisions. Met with Department of Enterprise Services to discuss their needs for enclosure space for new equipment. Worked with the CTS Finance group to update the spending plan in support of CTS rate setting. 	<ul style="list-style-type: none"> Gain OCIO approval for the Firewall, Network Core and Storage project investment plans. The Network Core investment plan is on the critical path. Continue refinement of the project schedule. Continue facilitation and management of the design decision process.
OB2 Heat Reduction This project will 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. Received all but 4 templates from agencies. Followed up with ESD, DEL, ATG & TSD regarding templates. Reviewed completed templates with SDC Facilities for readiness to input into DCIM. 	<ul style="list-style-type: none"> Per ESD's request, schedule meeting to discuss heat reduction project Follow-up with DEL, ATG and TSD and request anticipated completion date. Create draft report to consolidate results Schedule meeting with project sponsor to review draft report and results from returned templates
SDC Facilities This project will prepare the SDC facility for customers. Includes preparing the critical environment (electrical/mechanical), floor space and physical security for customers.	<u>Critical Environment:</u> <ul style="list-style-type: none"> DC power design is in progress Reviewing proposed furniture layout for CE control room <u>Physical Security:</u> <ul style="list-style-type: none"> Consultant is reviewing the design for separating the security systems between the 1500 Jefferson Building and the SDC. Relocating the Security Office is under construction Utility Building Fencing completed Access Control Devices are being installed <u>Space Management:</u> <ul style="list-style-type: none"> Completed evaluations of Cable Management Documentation Software products Technology lab power and fencing complete Shipping and receiving area cage complete Provider space waiting for requirements Test Dev Lab enclosures received 	<ul style="list-style-type: none"> Awaiting TSD design requirements before DC power design and procurement process can begin Continue design review and begin identification of solutions Continue construction of the Security Office Continue installation of Access Control Devices Begin procurement process for the Cable Management Documentation Software Receive and start installation of the Technology Lab enclosures and benches.

Project	Completed in this Reporting Period (May 9 – May 29)	Planned for Next Reporting (May 30 – June 11)
	<ul style="list-style-type: none"> Moved ESS group and Physical Security Manager from 1500 Jefferson office building into SDC support space. 	<ul style="list-style-type: none"> Planning for moving NCC from OB2 into the SDC support space
<p>SDC Network Core</p> <p>This project will establish the network core in the SDC and connect with the OB2 network.</p>	<ul style="list-style-type: none"> Submitted Investment Plan for Review and Approval. Created detail project schedule and worked with SDC Program Office to review SDC project dependencies. Worked with SDC Program Office and Storage groups on options for storage in SDC. Started work on GPS (Timing Generator) Antenna and Server equipment purchase. Worked with Cisco to review equipment inventory lists and status. Worked with Cisco and CenturyLink to review process for re-engaging and restarting project. Established a weekly pre-engagement status meeting with Cisco. Worked on SDC Design Decisions. 	<ul style="list-style-type: none"> Gain CTS and OCIO approvals for Investment Plan. Continue refinement of project schedule; verify dependencies and assign staff resources. Continue work on Project Charter update and submit for review and approval. 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. Continue work on Equipment Inventory tasks to physically separate inventory into three groups (DH1, OB2, and Surplus) and move to new location in SDC. Continue work on GPS equipment purchase. Continue work with Cisco and CenturyLink to prepare for re-engagement. Continue work on equipment inventory. Continue work on SDC Design Decisions. Continue to work with SDC on plan and schedule for Storage. Begin work on Charter for VLAN changes.
<p>SDC Firewall Project</p> <p>This project will move forward to 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 Project tasks, including signing the contract are on hold. 	<ul style="list-style-type: none"> Further detail project tasks related to the firewall deployment and timing
<p>SDC Storage Optimization</p> <p>This project will move forward with replacing aged systems and optimizing the environment to reduce rates.</p>	<ul style="list-style-type: none"> Developed installation options with SDC Program Office and Network Core Reviewed SDC project dependencies with SDC Program Office. Revised Investment Plan with SDC Program Office. Revised RFQQ with OLS Developed High Level Design (draft) Completed Workload & Performance class definitions. Resolved and closed Issue #153 	<ul style="list-style-type: none"> Continue to work with SDC Program Office on project plan and schedule. Track & resolve remaining open issues and assist with SDC Design decisions Approval of Investment Plan Finalize RFQQ Review draft High Level Design with CTS Storage, Network, Security & SDC Architects. Begin work on Project Charter update and submit for review and approval.

Project	Completed in this Reporting Period (May 9 – May 29)	Planned for Next Reporting (May 30 – June 11)
CTS Cloud Utility Service This project will 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"> Begin development of the investment plan.
OB2 Risk Mitigation (CTS Move Phase 1) This project will move selected CTS equipment that best alleviates the heat issue in OB2.	<ul style="list-style-type: none"> Began refinement of the project schedule for all items in the CTS Move Phase 1 scope. This is in preparation for meetings with Service Owners and project managers to refine the scope, approach and schedule. This will feed the investment plan. 	<ul style="list-style-type: none"> Schedule and begin conducting meetings with Service Owners and project managers to refine the scope, approach and schedule for Move Phase 1 items. Begin risk assessment required for the investment plan. Continue drafting the investment plan.
Migrate WSP to SDC The project team is working with WSP to explore the possibility of moving their data center to the SDC.	<ul style="list-style-type: none"> Met with WSP to discuss the network design and the SMON. Initial design drafted with the bill of materials identified. Options for connecting the WSP data center and the SDC are being evaluated. Met with WSP to review CTS responses to WSP physical security requirements. No requirements were identified that require a fenced cage for WSP equipment. A follow-up meeting has been scheduled for May 30. 	<ul style="list-style-type: none"> Work to resolve funding issues to allow WSP to make a decision to move or not. Meet with WSP to finalize the physical security requirements. Schedule follow-on work sessions as needed.
OB2 Risk Mitigation (CTS Move Phase 2) This project will continue the heat reduction 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 This project will 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 9 – May 29)	Planned for Next Reporting Period (May 30 – June 11)
Server Virtualization This project includes virtualizing 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 This project includes establishing 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.

This project includes replacing SAN fabric switches in OB2 that are at end of vendor support.		
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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	G	1/27/12	6/15/12	6/15/12	<i>EMC has engaged the SDC enclosure vendor to provide a solution. Waiting for final design before closing the issue.</i>	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	<i>Storage architects are developing a design solution. Once a design solution is known, a project manager can be assigned and the issue closed.</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	6/6/12	7/1/12	<i>This is being worked by the CTS Finance group and OFM.</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	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	6/6/12	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	Project 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	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	Provide clear management guidance on priorities and carefully manage functional staff to minimize conflicts in priorities and work tasks.	Ongoing	Program 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

Print Date: 5/31/2012

Likelihood Key:

G = Low.

2=significant impact
 3=minor impact
 0=no impact

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			