

# WA State Consolidated Technology Services State Data Center Migration Project Status Report

<b>Prepared By:</b>	Consolidated Technology Services – SDC Migration Project	<b>Current Issues: 7 Open</b>
<b>Heidi Brownell/Rick Cook</b>		<b>Schedule: Under Development</b>
<b>Period Covered:</b>	Through October 26, 2011	<b>Budget: \$60,429,439</b>
<b>Date:</b>	October 28, 2011	<b>Scope: Under Development</b>

## SDC Projects Status

Project	Completed in this Reporting Period	Planned for Next Reporting Period
<b>SDC Migration Project</b>	<ul style="list-style-type: none"> <li>Began reconciling the projects between the work breakdown structure, SharePoint site and budget sheets. This is approximately 90% complete.</li> <li>Obtained sign-off on project charter.</li> <li>Held the first Steering Committee meeting.</li> <li>Held the first two core team meetings.</li> <li>Updated the Investment plan to align with the project charter and reflect current plans.</li> <li>Refined the work breakdown structure and captured task durations and dependencies in the project plan. The first cut of the overall plan is complete. Refinement of the plan is an ongoing task. Specific timelines are still needed for OB2 Move activities planned after July 2012. These will be captured around second quarter of 2012.</li> <li>Updated the status report template and implemented a repeatable process for Service Owner status reporting.</li> </ul>	<ul style="list-style-type: none"> <li>Continue refinement of the project plan.</li> <li>Focus on critical path items such as ordering the next set of enclosures for Data Hall 1.</li> <li>Continue working the project issues.</li> </ul>
<b>SDC Network Core (NWC)</b>	<ul style="list-style-type: none"> <li>Cisco Advanced Services agreements for Installation and Engineering/Testing signed and PO requests have been submitted.</li> <li>Responded to Wright Runstad questions on qualified fiber contractor requirements in the “Structured Cable Installation Requirements”.</li> <li>Submitted cable and pathway requirements to SDC Facilities for SONET timing generator installation requirements.</li> <li>Cisco Network Core equipment delivery is 95% complete. Awaiting the delivery of the Nexus 7018 switches.</li> </ul>	<ul style="list-style-type: none"> <li>Meet with Cisco PM and Engineering manager to set the planning schedule for the equipment installation and engineering testing.</li> <li>Set firm date for fiber contractor SDC walk-thru.</li> <li>Submit timing generator equipment and installation specifications to contract group for quote solicitation.</li> <li>Continue NWC design decision meetings.</li> <li>Complete cabinet elevation drawings for NWC equipment and fiber panels.</li> </ul>
<b>SDC WAN</b>	<ul style="list-style-type: none"> <li>Reorganized several projects for improved management and reporting.</li> <li>Started initial planning phase for some of the WAN projects.</li> </ul>	<ul style="list-style-type: none"> <li>Start project initiation/planning phase and determine budget for some of the projects.</li> <li>Continue planning efforts.</li> </ul>
<b>SDC Telephony (LTS: PBX, Call Management System and Interactive Voice Response Unit)</b>	<ul style="list-style-type: none"> <li>In Initiation/Planning Phase</li> </ul>	<ul style="list-style-type: none"> <li>Continue planning efforts</li> </ul>

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<b>SDC Facilities</b>	<ul style="list-style-type: none"> <li>Phase one enclosure installation is 70% complete (Due 11/01/11).</li> <li>Documentation gathering is taking place for the Data Center Infrastructure Management (DCIM) tool implementation.</li> <li>Physical Security system separation has been approved.</li> <li>Space Management Supervisor position is filled.</li> </ul>	<ul style="list-style-type: none"> <li>Complete enclosure installs for phase 1.</li> <li>Continued data and documentation gathering for DCIM configuration and implementation.</li> <li>Continue work on verification and acceptance of the video surveillance system.</li> </ul>
<b>SDC Private Cloud Procurement Project</b>	<ul style="list-style-type: none"> <li>Completed 3 of the 4 Customer Core Team Requirements Validation Workshops</li> </ul>	<ul style="list-style-type: none"> <li>Complete project charter, receive final sign off.</li> <li>Conduct final Customer Requirements Workshops 11/2/11.</li> </ul>
<b>SDC Private Cloud Implementation Project</b>	<ul style="list-style-type: none"> <li>N/A</li> </ul>	<ul style="list-style-type: none"> <li>Planning to begin in late 2011</li> </ul>
<b>OB2 Move – A la Carte 1</b>	<ul style="list-style-type: none"> <li>Obtained an inventory of A la Carte customers to begin communication and migration planning.</li> </ul>	<ul style="list-style-type: none"> <li>Begin communications with A la Carte customers.</li> </ul>
<b>OB2 Move – A la Carte 2</b>	<ul style="list-style-type: none"> <li>See DSHS Core Redesign status below.</li> </ul>	<ul style="list-style-type: none"> <li>See DSHS Core Redesign status below.</li> </ul>
<b>OB2 Move – Vendor Management</b>	<ul style="list-style-type: none"> <li>N/A</li> </ul>	<ul style="list-style-type: none"> <li>Planning to begin in late 2011</li> </ul>
<b>Mainframe</b>	<ul style="list-style-type: none"> <li>Refined tasks, timelines, and dependencies within the SDC Migration project plan.</li> </ul>	<ul style="list-style-type: none"> <li>No activity planned for next reporting period. Mainframe moves are targeted for around December 2012.</li> </ul>
<b>Messaging</b>	<ul style="list-style-type: none"> <li>Met to refine work breakdown structure and schedule for messaging projects associated with the SDC.</li> </ul>	<ul style="list-style-type: none"> <li>Continue to refine tasks, timelines, and dependencies within the SDC Migration project plan. Initial tasks do not begin until Summer of 2012.</li> </ul>
<b>CSD Server Migration</b>	<ul style="list-style-type: none"> <li>Continued the draft of the overall work breakdown structure and schedule for all server migration projects associated with the SDC.</li> </ul>	<ul style="list-style-type: none"> <li>Continue to refine tasks, timelines, and dependencies within the SDC Migration project plan</li> </ul>
<b>Server Virtualization</b>	<ul style="list-style-type: none"> <li>Comarch OSS Servers: Planning virtualization of TSD's Comarch OSS servers.</li> <li>Agency Technology Services (ATS) Servers: Gathered usage data, prepping for virtualization.</li> <li>Security Servers: Booked Meeting to discuss.</li> <li>PCR approved to change end date of project to July 2012.</li> </ul>	<ul style="list-style-type: none"> <li>Meet to begin high level planning for moving systems to the SDC.</li> </ul>
<b>Security Gateway</b>	<ul style="list-style-type: none"> <li>Completed the initial draft of the overall work breakdown structure and schedule for all security gateway projects associated with the SDC.</li> <li>Released the Security Gateways RFI for 30 day publication on 10/7.</li> </ul>	<ul style="list-style-type: none"> <li>Provide clarification to RFI questions as needed</li> <li>Review &amp; evaluate RFI responses.</li> </ul>
<b>Security Infrastructure</b>	<ul style="list-style-type: none"> <li>Firewall RFP completed and sent to the CTS Office of Legal Services (OLS) for release.</li> <li>Hypervisor firewall resource planning with CSD.</li> </ul>	<ul style="list-style-type: none"> <li>Release the firewall RFP.</li> <li>Await RFP vendor responses for Firewall RFP.</li> <li>Begin internal high-level planning with vendors for Authentication and SecMan deployments.</li> <li>Begin design sessions for Authentication and SecMan projects.</li> </ul>

Project	Completed in this Reporting Period	Planned for Next Reporting Period
<b>Storage Infrastructure</b>	<ul style="list-style-type: none"> <li>Service owner finalized recommendation for moving forward with an RFQ for an acquisition and installation service in SDC.</li> <li>Service owner finalized recommendation for moving forward with an RFQQ for the planning and implementation of data migration from OB2 storage platforms to SDC.</li> </ul>	<ul style="list-style-type: none"> <li>Review/update Investment Plan, request approval to proceed.</li> <li>Validate Bill of Materials (BOM), Prepare RFQ, submit to Office of Legal Services (OLS) with the Investment Plan for RFQ release.</li> <li>Begin development of a RFQQ for Data Migration Services.</li> <li>Validate existing OB2 fabric switch port/configuration data to assist SO, NWC-Storage Infrastructure, SDC-Cabling projects, SDC-Tape and VTL projects.</li> </ul>
<b>Decommission OB2</b>	<ul style="list-style-type: none"> <li>N/A</li> </ul>	<ul style="list-style-type: none"> <li>Planning phase to being in Fall of 2013</li> </ul>

### External Project Collaboration

External Project	Completed in this Reporting Period	Planned for Next Reporting Period
<b>DSHS Core Redesign</b>	<ul style="list-style-type: none"> <li>Developed a work plan for renumbering VLANs.</li> <li>Successfully renumbered one of the VLANs as a trial to validate the work plan steps and effort required. This will be used to estimate the effort for the remaining 50+ VLANs that must change.</li> <li>Worked with CTS/TSD on the design of the OB2 Nexus network to be used by DSHS.</li> </ul>	<ul style="list-style-type: none"> <li>Continue development of the detailed design.</li> <li>Continue efforts to implement the OB2 Nexus network to be used by DSHS.</li> <li>Start planning the migration of the DSHS MPLS network.</li> </ul>
<b>Nexus Data Center Deployment (in OB2)</b>	<ul style="list-style-type: none"> <li>Nexus routers (7010's) are now production ready!</li> <li>Nexus 5010 and 2000 switches have been installed and configured in the production environment.</li> <li>Nexus 5010's will be migrated over and closely monitored for 1 month prior to adding any new services to the Nexus platform.</li> </ul>	<ul style="list-style-type: none"> <li>Complete project closeout activities.</li> </ul>
<b>Command Center</b>	<ul style="list-style-type: none"> <li>Currently waiting on results of SDC space planning efforts.</li> </ul>	<ul style="list-style-type: none"> <li>Provide input to SDC space planning efforts as required.</li> </ul>
<b>Data Hall 3 and 4 Marketing</b>	<ul style="list-style-type: none"> <li>OFM is taking the lead on this effort.</li> </ul>	<ul style="list-style-type: none"> <li>OFM is soliciting for a broker to market the data halls.</li> </ul>
<b>Agency Data Center Migration</b>	<ul style="list-style-type: none"> <li>Business plan update must be completed before additional migration planning can be done.</li> </ul>	<ul style="list-style-type: none"> <li>Continue working with the OCIO to build the business plan and discuss planning for agency data center migration.</li> </ul>
<b>SDC Business Plan Update</b>	<ul style="list-style-type: none"> <li>Continuing to meet twice a week, currently focusing on financial models and collecting data to inform the migration plan.</li> </ul>	<ul style="list-style-type: none"> <li>Continue weekly meetings to develop the business plan and financial models.</li> </ul>

### Major Deliverable Schedule

Formal Deliverable	Deliverable Number	Estimated Completion Date	Deliverable Status
<i>Coordinate projects required to build-out and move to the SDC</i>			

Formal Deliverable	Deliverable Number	Estimated Completion Date	Deliverable Status
1.1 Project Management Plan and Schedule	D1.1	10/30/2011	Work breakdown structure completed. Task durations and dependencies added to create a granular level schedule. Plan and schedule are in refinement and maintenance mode.
1.2 Investment plan	D1.2	10/30/2011	Plan drafted.
1.3 Project management templates and processes for coordinating the subprojects	D1.3	11/30/2011	Implemented status reporting template and repeatable process.
<b>Objective 2: Procure resources to assist the project in meeting its goals and objectives</b>			
2.1 Procurement to obtain a Quality Assurance Vendor.	D2.1	7/1/2011	Completed
2.2 Procurement to obtain a vendor to physically move equipment out of OB2 and into the SDC.	D2.2	4/30/2012	Future deliverable
2.3 Procurement to obtain a vendor to conduct performance benchmarks to compare system performance in OB2 to system performance in the SDC (before and after the move).	D2.3	3/31/2012	Future deliverable
<b>Objective 3: Maximize efficiency and quality, while minimizing cost and risk through the use of repeatable processes to orchestrate the OB2 Move to the SDC</b>			
3.1 Overall Systems Migration plan	D3.1	5/30/2012	Future deliverable
3.2 Standard strategies and migration plan for moving systems, applications, functions and equipment to the SDC.	D3.2	6/30/2012	Future deliverable
3.3 Standard templates and repeatable processes for moving equipment and systems to the SDC.	D3.3	6/30/2012	Future deliverable
<b>Objective 4: Oversee and facilitate the development of service owner plans to move equipment to the SDC.</b>			
4.1 Inventory of equipment, systems and applications located in the OB2 Data Center.	D4.1	5/30/2012	Future deliverable
4.2 Implementation plans for moving systems to the SDC.	D4.2	6/30/2013	Future deliverable
4.3 Benchmark report validating systems migrated successfully	D4.3	11/30/2013	Future deliverable
<b>Objective 5: Establish a private cloud computing environment to support production systems.</b>			
5.1 Procurement to obtain a private cloud vendor to design and implement a private cloud utility architecture and computing environment.	D5.1	1/31/2012	In progress
5.2 A private cloud computing environment installed and validated.	D5.2	3/1/2012	Future deliverable
5.3 Policies and procedures for operating and managing the SDC private cloud utility environment.	D5.3	4/31/2012	Future deliverable
5.4 Tools and procedures for migrating virtual servers to the SDC private cloud utility environment.	D5.4	4/31/2012	Future deliverable
<b>Objective 6: Remove obsolete and applicable equipment from the OB2 Data Center</b>			

Formal Deliverable	Deliverable Number	Estimated Completion Date	Deliverable Status
6.1 OB2 Decommission Plan	D6.1	11/14/2013	Future deliverable
6.2 List of items to remove	D6.2	12/1/2013	Future deliverable
6.3 Completed inventory of items removed, disposition verified with proper surplus forms	D6.3	2/27/2014	Future deliverable

### 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
1	<b><i>Private IP addresses</i></b> have not been well documented or regulated and could have duplicates across multiple agencies. This could cause routing problems when migrated to the SDC share network.	TSD	Y	6/1/2011	11/30/2011	12/31/2011		Open
2	<b><i>Network Monitoring:</i></b> Allowing agencies to monitor network traffic in a shared environment poses security and technical challenges. Without this capability, agencies may incur longer and more frequent system outages.	TSD	Y	9/12/2011	11/30/2011	12/31/2011		Open
3	<b><i>Resource Conflicts:</i></b> The project's resource workload is large. Staff required to work on the SDC Migration project also support production operations and other projects. This causes a conflict in priorities that could impact the SDC Migration Project. This applies to CTS and Agencies.	SDC	Y	9/14/2011	11/30/2011			Open
4	Project Manager for Security projects	ITD (Security)	Y	9/23/2011	11/1/2011	11/15/2011	<b><i>A project management resource has been identified to support security projects.</i></b>	Closed
5	<b><i>Top-of-Rack Customer Switches</i></b> will not be allowed in Data Hall 2. These must be Nexus 2000 switches.	TSD	Y	10/18/2011	11/30/2011	12/31/2011		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	Because customer agency personnel are not always aligned with mandated objectives and outcomes, they may not support the processes or purchase the services.	Ext	2	R	G	G	Continue to include agency IT managers in their steering committee and communicate and educate them regarding the process, decisions, and impacts to the agency systems.	Ongoing	Program Manager
2	Because the project is large and includes substantial logistical challenges involving multiple agencies, interdependencies will be complex and could be overlooked.	Man	1	R	G	G	<ul style="list-style-type: none"> <li>Apply project management practices to manage the effort.</li> <li>Break the work down into small and logical units.</li> <li>Use tools to track tasks, dependencies, issues, risks, etc. and automate the planning and communications as much as possible.</li> <li>Implement migration approaches that minimize impacts of system dependencies, such as spanning the network between the OB2 and SDC data centers.</li> <li>Use development and test platforms to verify system dependencies.</li> </ul>	Ongoing	Project Manager
3	Budget is large but may be insufficient.	Res	1	R	R	R	Work with the Budget Office to consider multiple funding options.	11/1/2011	Program Manager
4	The project is dependent on and influenced by external drivers such as OCIO and the Legislature. This could impact the project's scope, schedule and budget.	Ext	2	R	G	G	Provide clear, consistent and routine communication about the project to inform legislators and other stakeholders of the approach and project decisions, and to educate them as to why the decisions and actions are in the best interest of the state.	Ongoing	Program Manager

ID	Risk Description	Risk Category	Level of Impact	Likelihood	Schedule	Ability to Meet Deadline	Risk Mitigation Comment	Due Date & Action	Assigned To
5	New business processes and work flows in SDC may impact agency technology operations.	Man	2	<b>R</b>	<b>G</b>	<b>G</b>	A clearly articulated business model, architecture and infrastructure design needs to be established and communicated to agencies to determine the actual impact. Agencies need sufficient lead-time to plan for changes and acquire the necessary resources.	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
- 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	Review project charter and provide comments to Project Manager.		10/21/2011	10/28/2011
2				