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Meet the Integrated Project Teams (IPTs)

What is an Integrated Project Team (IPT)? IPTs are cross-functional teams that are formed for the specific purpose of delivering a product for a customer. The SCITMP has assembled several IPTs, each of which include both Federal and contractor staff members from each of the three sites — SC Headquarters (HQ), Chicago (CH), and Oak Ridge (OR). Each team is led by a Federal staff member and is responsible for planning and executing project activities, with Project Management Office ([PMO](#)) oversight. The PMO, led by Kevin Campbell, ensures that the governance model and project management processes are followed, and provides feedback and recommendations during project reviews. Each team was required to develop a Work Breakdown Structure ([WBS](#)) that defines the scope and schedule of the project, and must provide deliverables based on the project schedule.



The **Data Center IPT**, led by Richard Dotson (OR) was responsible for setting up the 1,500 square foot [data center](#) in Oak Ridge, TN. Over the past 12 months, the SC Data Center has undergone numerous upgrades, including LED lighting, advanced fire suppression system, dual-metered power supply, dual backup generator power, improved HVAC systems, and advanced Power Utilization Efficiency (PUE) meters to manage the power needed and help reduce energy costs. During this process new [blade servers](#) and racks were installed allowing for a more efficient use of space and future growth of the Data Center over the coming months to house future services.

The **Edge Network IPT**, led by Marc Nguyen (HQ) is working to build a new SC Enterprise-wide, secure network connecting all SC sites — HQ, CH, OR, and Site Offices. The modernized SC network will comply with 1) the [OMB mandate](#) that all Federal internet traffic must go through the Trusted Internet

Connection (TIC) gateway, 2) the [OMB mandate](#) to transition to [IPv6](#), 3) Federal and DOE Cyber Security requirements, and 4) will provide 99.9% high availability. The SC Edge Network will provide automatic fail-over between the primary SC data center at Oak Ridge and the Disaster Recovery ([DR](#)) data center at Chicago. The SC Edge Network is built over the Energy Sciences Network ([ESNet](#)) backbone to provide safer and faster network connections (up to 5 times faster than the existing network) for SC users to access corporate applications and use collaborative tools across the SC complex such as Voice Over IP (VoIP), desktop video, televideo, and instant messaging. The Edge Network is in the final stage of testing and the project is 80% complete. Project completion is expected this month.

The purpose of the **Active Directory (AD)/Exchange IPT**, led by Anthony Brannum (HQ), is to create a foundation for network authentication, applications, services and email. The [AD/Exchange](#) IPT has completed the initial design and installation of AD and Microsoft's Exchange for email. Ultimately, all SC users will be able to sign on at any SC workstation to access their files, network drives, applications, email, and other resources using their [HSPD-12](#) credential (DOE Badge). In addition, all SC users will have common email addresses, [@science.doe.gov](#), standard mailbox sizes, consolidated email archives, and

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be able to find contact information and determine calendar free/busy information for all SC staff in the email Global Address List (GAL).

The **Helpdesk IPT**, led by Alesia Boone (HQ), was tasked to establish one helpdesk tool for the Office of Science. Previously, each SC site used a different tool; HQ used Remedy, CH used SMART, and OR used AIM. Through the efforts of this IPT, all 3 sites have successfully migrated to a common helpdesk tool — SMART2 — on the JIRA platform. This is the first consolidated service offering provided by the SCITMP. JIRA provides greater flexibility regarding workflow and reporting between the Office of Science IT and its customers. Now that all of SC is using a common help desk tool, the team is focusing its efforts on the establishment of common business processes across the SC complex for recording and providing status on IT incidents, communicating status of service requests, and conducting customer surveys. Plans to convert the backend support from Oracle to SQL are also underway. Ultimately, the system will be moved from CH to OR for hosting.

The **SharePoint IPT**, led by Julie Tucker (HQ), is responsible for migrating all 3 sites' SharePoint farms into one consolidated [SharePoint portal](#) on the new Science-wide domain. They are in the process of developing a consolidated navigation that encompasses each of the sites' existing SharePoint farms. Once all of Science is on one network (osc.energy.gov), on which the new SharePoint farm will be located, all SC users will have the ability to collaborate more efficiently across the entire SC organization. For example, this SCITMP newsletter must be sent as an email *attachment* rather than a portal *link* to all SC at HQ and the field. Why? Because the broader audience (CH, OR, and Site Offices) does not have access to the SC HQ SharePoint portal where this newsletter originates. Right now we're on separate networks. With the modernization, this will no longer be an issue. Additionally, those who coordinate data calls and/or regularly collect information from the site offices will find using SharePoint to be much more efficient than sending/receiving email attachments and manually consolidating data. The SharePoint 2010 rollout is dependent upon the implementation of the new Edge Network, Exchange, and Active Directory; the SharePoint 2010 migration completion is targeted for March 2014.

The **Software IPT**, led by Jay Stroup (HQ) is working to develop the overall migration strategy to consolidate and modernize the Office of Science (SC) enterprise architecture. To achieve this purpose, the team is focused on three key stages: 1) identify and consolidate commodity (common use) software and applications throughout the enterprise, 2) implement an enterprise asset tracking and procurement capability to optimize the current and future state IT portfolio, and 3) transfer IT services, systems and software throughout the SC enterprise with no interruption to, or degradation of, IT operations and network usage. Though the final stage is dependent upon the implementation of the enterprise Active Directory, Edge Network and the SharePoint portal domain, the team has already achieved significant milestones in migration planning, developing the target (To-Be) architecture, and reducing redundant software and systems.

The **Cyber Security IPT**, led by Qui Nguyen (OR), is responsible for implementing a single [cyber security](#) program for all SC federally occupied facilities. The team is working with other IPT teams to develop a single SC General Support System (GSS) with one set of SC cyber security policies and procedures, which currently are granularly implemented among SC HQ and the ISCs. A common set of cyber rules will enable SC users to seamlessly access SC data and resources among SC's Federal locations. The new SC GSS system is in the process of certification and accreditation (C&A) in accordance with the Federal Information System Management Act ([FISMA](#)) of 2002, National Institute of Standards and Technology ([NIST](#)) Federal Information Processing Standards [FIPS](#) Publications, and DOE Orders. The C&A process is planned to be completed in phases. The team is currently working on Phase 1, to certify and accredit the SC Edge Network, which is approximately 75% complete.

We want to hear from you!

If you have questions about the SC IT Modernization Plan, send an email to scitmp@science.doe.gov.

We will compile questions and provide answers to the entire SC community through this newsletter.

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Julie Tucker, Editor, SCITMP Newsletter



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The **Virtual Desktop Infrastructure (VDI) IPT**, led by John Keller (CH), is tasked with providing SC users the ability to access their Windows 7 desktop environment by PIV smartcard authentication — from anywhere — on laptops, desktops, tablets, and smartphones. **VDI** essentially means that desktop operating systems and applications run on “virtual machines” on servers in the data center. This eases administration and increases the security level in which data is accessed outside the internal network, among other **benefits**. Currently, VDI is available to all users on the ch.science.gov domain. The goal is to expand this capability to all SC users on the new common network. Ultimately, VDI will replace the current SC Remote Access solution (workplace.science.doe.gov).

The **Voice over Internet Protocol (VoIP) IPT**, led by Connie Hinton (OR), is working to establish a **VoIP** infrastructure across the SC community. The first phase is to deploy VoIP at the Federal Building in Oak Ridge, Tennessee, which includes strategically placing equipment at the OR demarcation entering the site with the ability to service multiple geographic locations. Specific customer equipment will then be placed at the Oak Ridge Federal Building, and applied to end user equipment, to make VoIP operational at this location. Test and acceptance of the Phase One location is scheduled to be completed in July 2013. As Phase One is being implemented, further information gathering will continue and the design will expand to cover additional SC locations.

Below is a high level overview of the SCITMP schedule, which shows the projected completion for each of the IPTs.

SCITMP Timeline

