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# **Development Highlights and Roadmap**

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# Agenda

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1. 2025 Highlights So Far
2. Short-term Roadmap: 6.1 December 2025
3. Medium-Term Roadmap: 6.2 June 2026 (Tentative)
4. Longterm Roadmap: Beyond Q2 2026

# #1.

**2025 Accomplishments**

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# BMP Accomplishments in 2025

- **2025-1 (released)** – Infrastructure enhancements to scale to the ever-increasing number of sites, user experience pages, misc. improvements and fixes
- **2025-2 (now in UAT)** – Development process enhancements, misc. improvements and fixes
- **2025-3** – scope currently being defined
- **More on development process enhancements**
  - Release content defined and communicated before (or around when) development begins
  - Adoption of agile
  - More and smaller releases (6 – 9 weeks of development plus testing)
  - More complete separation between development and production



# secureWISE Releases in 2025

- **5.0.2.3** – Websockets support in HTTP Proxy (Centos)
- **5.1.0.x** – secureWISE Server on Ubuntu, Websockets in HTTP Proxy (Ubuntu)
- **6.0.0.0** (Planned for GA Oct 9, rollout to begin Oct 20)
  - File Transfer Layer Rewrite (FT3)
    - SSEE Pause/Resume
    - RAA Support in SSEE
    - Launcher/Browser-based file transfer (FTP & RAA) (Demo)
    - File transfer speed improvements (50% or more)
  - Adaptive Staging
  - 24 third-party framework updates
  - Misc. feature and security enhancements and defect resolutions
- **Four Operating System & Third-Party (OSTP) updates** plus 6.0 includes additional OSTP updates





# Launcher/Browser-based File Transfer Demo

File Transfer

ils\_ils technology (ils\_tech) ▾

ILS.Server.eCentre FTP

Tool

Staging

Transfers ✓

Tool

Root ▸ Temp ▸ FITftpTest  



This directory is empty.

◀ Temp

Drag & Drop or Select

Files

Directory

Staging

No files on this server  



Files transferred to the Staging folder will show here.

Drag & Drop or Select

Files

Directory

Transfers

No transfers in progress



Uploads, downloads and deletes you start will show here.

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# Development Enhancements in 2025

- **More complete adoption of Agile**
  - Much greater team involvement in “issue refinement”
  - Adoption of “story points” and all that entails
- **Expanded use of automated testing**
  - FT3 (a 6.0 feature) has 76 Automated tests that are run against 8 tool configurations with every build
- **Expanded use of AI**
  - Initially MS Copilot and AWS’s Amazon Q
  - Now MS Copilot and GitHub Copilot
  - Examples:
    - Analyze logs to assist in debugging
    - Explain this code to me
    - Scan this code for bugs and security problems
    - Write code that does “X”
    - Write unit tests for this code
    - Etc.,
- **Positions Added:** a manual tester, currently interviewing for two new automated test positions and an additional developer





# #2.

**Short-term Roadmap**

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# 6.1, December 2025

## ■ Infrastructure

- Merge with the PDF build and deployment processes
- Migrate from CVS to Git (long overdue, must precede 6.1 development)
- Adopt tools to support improved development processes
  - More systematic and routine code reviews
  - Automatic code scans for performance, defects, and security

## ■ SSEE: Download files via HTTP Proxy

## ■ Admin Client (Demo)

- New modern and responsive user interface
  - UI re-design completed in 2024
  - Implementation has been underway since February
- Modern security posture

## ■ Security enhancements including more third-party framework updates (moving target, required in every release)



## 6.1 Admin Client Demo

The screenshot displays the 'Administrative Client' interface for 'secureWISE ils\_ils technology (ils\_tech)'. The top navigation bar includes 'Sessions', 'Users', 'Tools', 'Reports', 'Delegated Admin', and 'System'. The user is logged in as 'ils\_ils technology (ils\_tech)'. The left sidebar shows 'Sessions' and 'Data Sessions'. The main content area, titled 'Sessions', features a '+ New' button and a 'Filter' button. A table lists various sessions with checkboxes for selection, session names, timestamps, and status indicators.

| <input type="checkbox"/> Select all |                                 | ↑↓ Date (Desc) ▾                                  |                    |
|-------------------------------------|---------------------------------|---------------------------------------------------|--------------------|
| <input type="checkbox"/>            | ACME_WinGenServer_WinServer2019 | 2025-09-15 04:39<br>ils_ils technology (ils_tech) | Active<br>Running  |
| <input type="checkbox"/>            | Session on Call COPY            | 2025-09-15 02:08<br>ils_ils technology (ils_tech) | Active<br>Stopped  |
| <input type="checkbox"/>            | Session on Call                 | 2025-09-15 02:02<br>ils_ils technology (ils_tech) | Active<br>Stopped  |
| <input type="checkbox"/>            | Live Session                    | 2025-09-15 01:45<br>ils_ils technology (ils_tech) | Active<br>Stopped  |
| <input type="checkbox"/>            | asdf                            | 2025-09-11 06:17<br>ils_ils technology (ils_tech) | Active<br>Stopped  |
| <input type="checkbox"/>            | asdf                            | 2025-09-11 06:03<br>ils_ils technology (ils_tech) | Active<br>Stopped  |
| <input type="checkbox"/>            | Hello World Session             | 2025-09-11 02:42<br>ils_ils technology (ils_tech) | Passive<br>Stopped |
| <input type="checkbox"/>            | Awesome Session for Chris       | 2025-09-08 05:51                                  | Active             |

# #3.

## Medium-term Roadmap

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# 6.2, Q2 2026 (Tentative)

- **Port Forwarding 2.0**
  - Survive network hiccups w/out having to restart clients
  - Application caching
  - Proxy data over 443 with TLS rather than 80 with SSH encryption
  - Support UDP
- **Support for RealVNC as an Alternative to TightVNC**
  - Subject to one more prototype, to be completed in 2025
  - Expect TightVNC support to continue for the foreseeable future
- **NIS/2, CRA, E187**
  - Features for managing tool CA certificates
  - OAuth 2.0 with OpenID Connect (OIDC) support for authenticating to tools
  - Support for FTPS (in addition to 6.0's support for SFTP)
  - Support VNC servers with native support for TLS (in addition to the encrypted RTO that is already available for VNC servers that do not support TLS)
- **Security enhancements** including more third-party framework updates (moving target, required in every release)



# #4.

**Longterm Roadmap**

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# Beyond Q2 2026 (Under Consideration for 6.3)

- **E188, E191**
  - Collect and report tool operating system details
  - Provide for automated and manual collection and reporting of additional tool data
- **TCS-MES Integration**
  - Use tool state when allowing remote operations
  - PDF Cimetricx tool software knowledge makes this a realistic objective
- **Fill in Zero-Trust Gaps**
  - ✓ Identity and Access Management (IAM): Strong authentication (e.g., MFA), role-based access.
  - Device Security: Ensure endpoints meet security standards before granting access (see E191 immediately above and E187 in 6.2 above)
  - ● Network Segmentation: Limit lateral movement within the network.
  - ● Continuous Monitoring: Real-time analytics, logging, and threat detection. (Looking into this now)
  - ● Policy Enforcement: Dynamic access decisions based on context.
- **Security enhancements** (moving target, required in every release)



# Thank You

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