CIVIL NX Transition & Feature Overview

From familiar workflows to next-level design.
CIVIL NX upgrades what you already know-into what you truly need.

About This Document

This guide summarizes the key feature improvements, updated license policy, and transition support for users considering the adoption of CIVIL NX.

Why CIVIL NX?

Built on the foundation of MIDAS CIVIL, CIVIL NX enhances workflows with plug-in support, advanced modeling tools, and recent design code updates.

What's Changing in CIVIL NX? *[Feature Comparison: CIVIL vs. CIVIL NX]*

Key Features	CIVIL	CIVIL NX	Points
Composite Girder Bridge Wizard	✓	✓	-
Existing Design Features	✓	✓	Includes currently available design functionalities in MIDAS CIVIL
Upcoming All Features	✗	✓	Includes new design capabilities planned for future implementation
API Integration/ Plug-in	✗	✓	Supports Grasshopper, Excel, Python, etc.
CAD Based Sectional Property Calculator (SPC)	✗	✓	Easier modeling of complex cross-sectional shapes
General Section Designer (GSD)	Limited	✓	Composite cross-sections reflecting multiple materials and tendon conditions

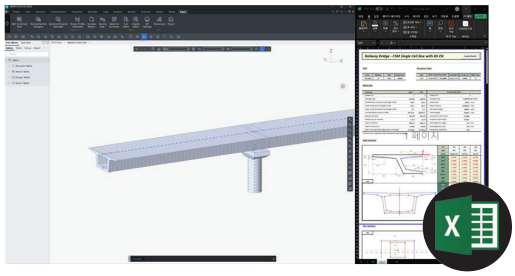
Key Advancements

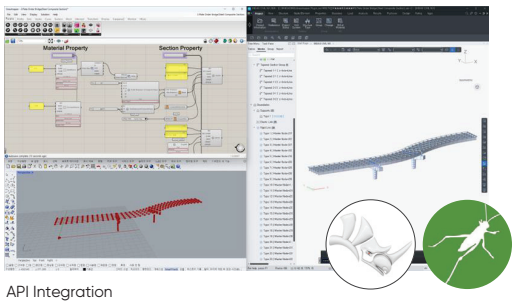
A summary of the most significant system, usability, and analysis upgrades that distinguish CIVIL NX from previous versions.

Core System Updates

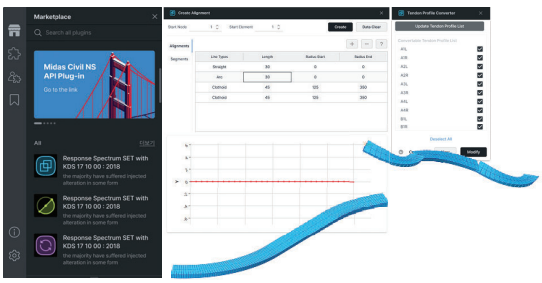
User Experience Improvements

Design & Analysis Enhancements





API Integration



Plug-in Extension

01. Core System Updates

API Integration

While external tool support was limited in the past, CIVIL NX offers robust integration with Excel, Python, and Grasshopper, enabling efficient and customizable workflows.

Plug-in Extension

Previously, updates were delivered through scheduled releases; now, users can extend functionality immediately via plug-ins, allowing for quicker implementation and higher productivity.

CAD-Based Section Property Calculator (SPC)

Earlier SPC functions had limitations for complex shapes; CIVIL NX supports intuitive and rapid cross-section modeling using CAD-style drawing capabilities.

All-New General Section Designer (GSD)

CIVIL NX provides advanced section analysis capabilities, accommodating multiple materials and post-tensioned tendon configurations without requiring external tools.

02. User Experience Improvements

Error Location Tracking

In earlier versions, users needed to manually locate elements with issues; in CIVIL NX, clicking the error message directly navigates to the source, reducing diagnostic time.

Smart In-app Search

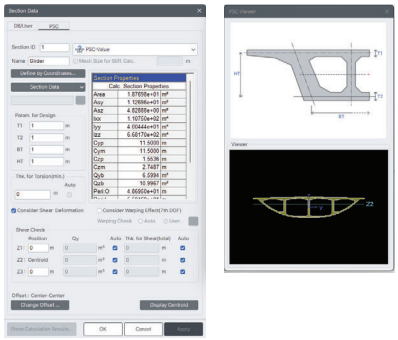
CIVIL NX now offers an integrated, in-app keyword search function that enables faster access to support resources during use.

Model Visualization Control

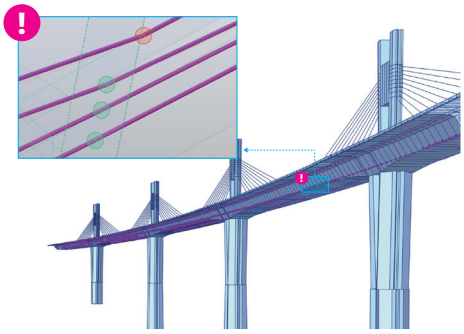
CIVIL NX allows greater control over structural transparency, text styles, and tendon layout views, enabling clearer interpretation of complex models compared to previous limitations.

Batch Output for Tendon Loss

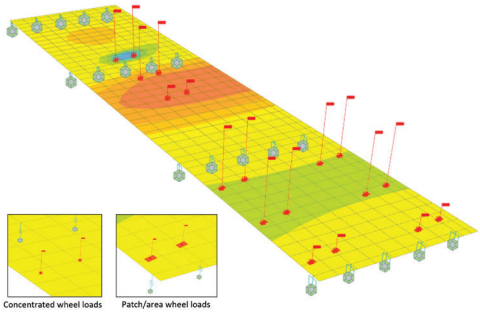
Tendon loss data used to require separate reviews by group and stage; now, a consolidated table enables comprehensive and efficient evaluation across all construction stages.



CAD-Based SPC



Model Visualization Control



Moving Load Patch Load

03. Design & Analysis Enhancements

Continually Updated Design Code Support

To ensure alignment with the latest standards, future design code updates will be maintained in CIVIL NX, which supports a broader range of standards.

Plate Design Functionality

CIVIL NX supports both analysis and design of plate elements in accordance with international design codes such as AASHTO and Eurocode.

Moving Load Patch Load

Patch Load application is supported under Moving Load conditions, enabling more accurate and standard-compliant traffic load modeling.

Maintenance Design Enhancement

CIVIL NX broadens its maintenance design capabilities, supporting more detailed and code-compliant assessments.

Vehicle Database Updates

The enhanced vehicle database includes all 50 U.S. states and comprehensive UK load data, supporting region-specific load assessment and design.

RSI Function Enhancements

New RSI capabilities include curved bridge modeling, selective track load application, Excel-based result export, and nonlinear spring definitions in both longitudinal and transverse directions.

Steel Composite Section Design

The new section design engine allows for accurate modeling and design of steel composite girders with eccentric slab configurations.

Eurocode National Annex Support

CIVIL NX supports 22 National Annexes under Eurocode, making localized compliance reviews and verification much more convenient.

License & Policy Update

The following outlines the key updates related to licensing, pricing, service modules, and transition support. The revised maintenance policy, including service coverage and rate changes, will be effective from **April 23, 2025**.

Perpetual CIVIL NX
We officially introduces the Perpetual License sales policy for CIVIL NX.

Purchase Price Unchanged
The purchase price remains unchanged.

- CIVIL NX Perpetual Licenses include a maintenance service rate **set at 20%**.
- Three bundle options are now available: **Plus / Advanced / Full Ultimate**
  (*Exception: The Rail Track Analysis (RSI) module may be purchased separately for Plus or Advanced bundles.)

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info@midasit.com www.midasuser.com

for orders placed by May 22, 2025

Special Offer
for MIDAS Users

- **Upgrade fee waived for orders placed by May 22, 2025**
- **Receive a new CIVIL NX license with your upgrade**
- **Use both CIVIL and CIVIL NX until Dec 31, 2025**

Connect with a Product Specialist
Scan to get personalized upgrade support.

- Existing CIVIL users **who complete a purchase order by May 22, 2025** may upgrade to CIVIL NX at no additional cost, as part of a limited-time promotion.
- **For CIVIL users without a maintenance contract :**
  Upon upgrade, the existing CIVIL license will be replaced with a CIVIL NX license.
- **For current CIVIL maintenance customer :**
  To ensure a smooth transition, customers may continue using both MIDAS CIVIL and CIVIL NX in parallel until **December 31, 2025**.