

## CHECKPOINT™ DATASHEET

*Quickly import BOMs, clean errors, manage part databases and control revisions.*

Checkpoint provides the means for easily and rapidly importing, cleaning, analyzing, organizing and archiving bills of materials regardless of the quality and nature of BOM format received. Complex customer part databases, AVL and AML lists are all verified and CheckPoint offers sophisticated utilities for component engineering and version compares.

### >> BOM IMPORTING

Checkpoint combines BOM import flexibility, data intelligence and user-friendliness. Import any text BOM, merge "linked files", Excel files, BOMs, XML files or databases via ODBC, using menu-driven macro recorders to parse even the worst BOM formats. These macros are stored as templates, instantly importing the format in the future. Scripting, configuration files or programming are not required. CheckPoint provides the quickest and most reliable solution for transforming varied bills of materials into error-free information ready for production.

Checkpoint's automatic reference-parsing algorithm works every time regardless of convention. For example, CheckPoint understands that R15-R20 or R42-47 or R2, R4-8 are actually six individual reference designators so that quantity mismatches are easily checked.

### >> ERROR CHECKING

Checkpoint scans BOMs for common errors such as missing reference, redundant references, missing manufacturing part numbers, VPN, IPN or CPN. The scope of error checking is user-configurable and reports communicate the errors to engineering and/or customers.

Checkpoint has a variety of CAD to BOM and BOM to CAD checks highlighting mismatches especially after CAD or BOM revision changes. (CircuitCAM is required for CAD import).

### >> REVISION CONTROL

Checkpoint stores each BOM in an intuitive, graphical tree containing all products ever processed by CheckPoint. The user navigates through the tree by Customer, Assembly, Work Order, etc. and there is no directory browsing, file access, or file naming required—everything is stored in a single secure database.

Each BOM version received from the customer or engineering is archived in the product tree under revision control. Products move through phases of approval on their way to production readiness and personnel are assigned for approval/rejection. CheckPoint controls not only BOM product version, but also process version. Now your factory controls "what" you build as well as "how" you build it.

### >> CHANGE AUTOMATION

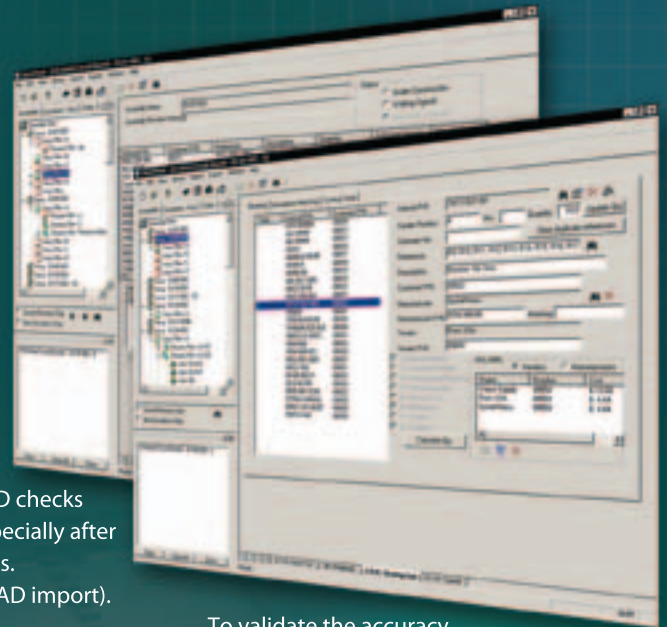
Implementation of engineering changes within CheckPoint is virtually automatic. The system is aware of all prior process and BOM revisions, and therefore when change requests are issued, CheckPoint can simply be told to replicate prior versions and modify the new revision accordingly.

To validate the accuracy of the change, CheckPoint offers a host of BOM-BOM comparisons and BOM-CAD comparisons. Following validation, CheckPoint completes the activity by executing the electronic approval process for the new revision.

### >> COMPONENT ENGINEERING

Checkpoint maintains a central library of internal part numbers (IPN) and their relationship to vendor part numbers (VPN), customer part numbers (CPN) and manufacturer part numbers (MPN). These associations support sophisticated utilities to identify compatible IPN for one or more CPN, VPN or MPN, thus helping to minimize redundant inventory.

Checkpoint may be deployed as the BOM "front-end" to ERP/MRP systems, "cleaning" the BOM first before sending the information to ERP for sourcing and other business-system functions. In other deployments, it may be positioned post-ERP or post-PDM.

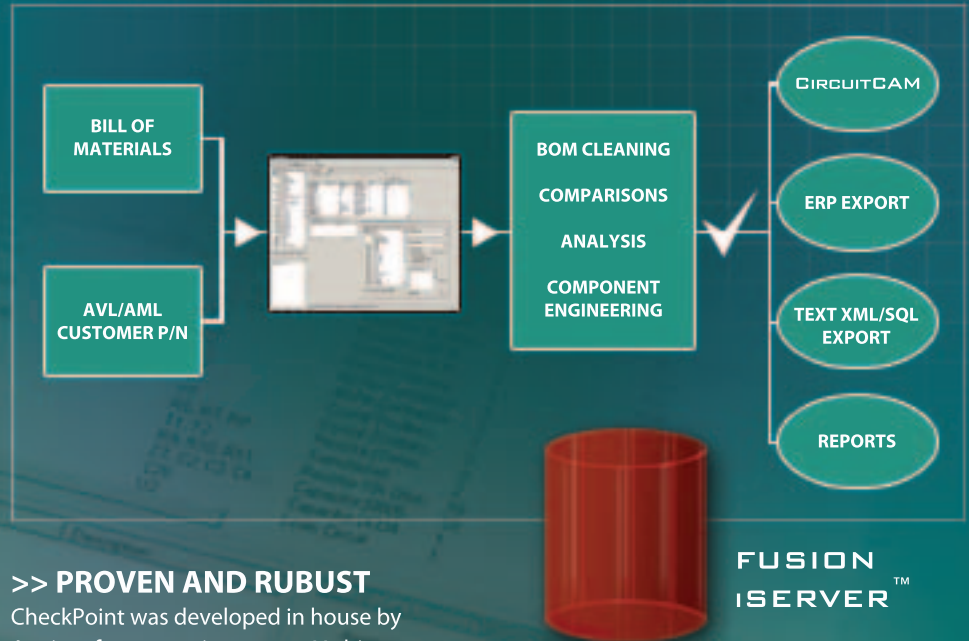


## >> ELECTRONIC SIGN-OFF

Electronic archival and control of product and process revisions is effective when driven and executed by a collaborative electronic approval process. CheckPoint offers multi-user approval/rejection processes to drive electronic sign-off. BOM and process versions are quickly and automatically guided through sign off processes allowing users to either reject with reason or approve. Your manufacturing enterprise is assured both rapid product release, and the security of knowing uncontrolled or improper product versions are never issued to the factory.

When CheckPoint is deployed as an integrated solution with CircuitCAM on Aegis' FUSION iServer it functions as the enterprise-wide control mechanism for all system portals.

## CHECKPOINT PRODUCT DATA FLOW



## >> PROVEN AND RUBUST

CheckPoint was developed in house by Aegis software engineers as a 32-bit Windows, COM-based application operating on a database backbone. It is compatible with all 32-bit Windows operating systems from Windows 98 through to XP.

Investing in Aegis is thus an investment well made as our cost-of-ownership, cost-of-deployment and IT overhead are the lowest in the industry.

*Fusion iServer integrates CheckPoint component and bill-of-materials information to CircuitCAM process data in a single relational database. This web-centric, scalable information server enables efficient multi-user enterprise wide access, while maintaining data integrity with the original customer files.*

## >> MULTI-LANGUAGE SUPPORT

All Aegis products utilize "Aegis Language Management" technology. This technology switches the user interface of Aegis products into different languages based on the regional settings of the Windows operating system on that particular PC.

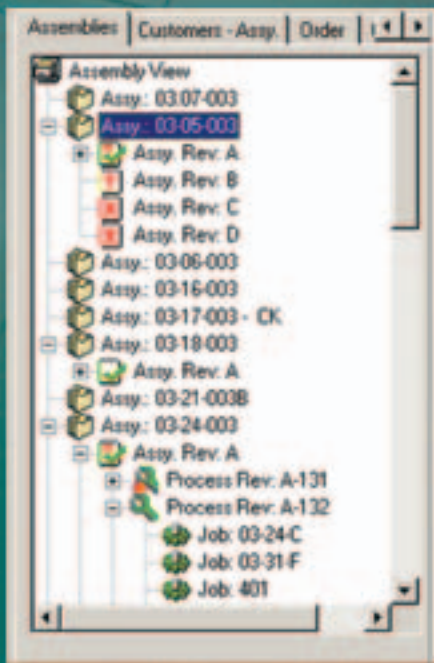
The user interface as well as the storage databases are Unicode, supporting the maximum possible character set of Western as well as Eastern languages. Support for several European languages has already been completed.

## >> SECURE DATA ACCESS

Checkpoint—as with all Aegis products—stores its information in an open Access, SQL Server, or Oracle database (depending on system configuration).

Using a comprehensive security rights system, CheckPoint isolates the abilities of each user to individual capabilities of the product—protecting valuable part and product databases. Software "sockets" built into CheckPoint allow elegant integration of custom "hooks" to third party systems.

## REVISION CONTROL TREE



*Each BOM is archived in the product tree under revision control, and personnel are assigned for approval/rejection. Products move through phases of approval on their way to production readiness.*

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