ThinkPad® X41 Tablet
Service and Troubleshooting Guide
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Service and Troubleshooting Guide
Note

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Σημαντικές οδηγίες σχετικά με την ασφάλεια

Παρακαλούμε διαβάστε πρώτα τις σημαντικές πληροφορίες για την ασφάλεια.

Οι πληροφορίες αυτές μπορούν να σας βοηθήσουν να χρησιμοποιείτε τον προσωπικό σας υπολογιστή ThinkPad με ασφάλεια. Ακολουθήστε και φυλάξτε όλες τις πληροφορίες που παρέχονται μαζί με τον υπολογιστή ThinkPad σας. Αυτές οι πληροφορίες που περιέχονται σε αυτό το έγγραφο δεν τροποποιούν τους όρους και τις συνθήκες αγοράς ή την Δήλωση Περιορισμένης Εγγύησης της Lenovo.

Η ασφάλεια των πελατών είναι σημαντική για τη Lenovo. Τα προϊόντα μας είναι σχεδιασμένα να είναι ασφαλή και αποτελεσματικά. Ωστόσο, οι προσωπικοί υπολογιστές είναι ηλεκτρονικές συσκευές. Τα καλώδια ρεύματος, οι μετασχηματιστές και άλλα εξαρτήματα τους μπορούν να δημιουργήσουν κινδύνους που θα μπορούσατε να έχουν ως αποτέλεσμα την πρόκληση τραυματισμών ή ζημιών, ειδικά σε περίπτωση κακής χρήσης τους. Για να μειώσετε αυτούς τους κινδύνους, ακολουθήστε τις οδηγίες που παρέχονται με το προϊόν σας, δώστε σημασία σε όλες τις προειδοποιήσεις που υπάρχουν στο προϊόν και στις οδηγίες λειτουργίας και διαβάστε προσεκτικά όλες οι πληροφορίες που περιέχονται σε αυτό το έγγραφο. Ακολουθώντας προσεκτικά τις πληροφορίες που περιέχονται σε αυτό το έγγραφο και παρέχονται με το προϊόν σας, μπορείτε να συμβάλλετε στην προστασία σας από κινδύνους και να δημιουργήσετε ένα ασφαλέστερο περιβάλλον εργασίας.

Σημείωση: Οι πληροφορίες αυτές περιέχουν αναφορές σε μετασχηματιστές και μπαταρίες. Πέραν των φορητών προσωπικών υπολογιστών, η Lenovo παρέχει εσωτερικές μπαταρίες σε πολλά προϊόντα (όπως ηχεία και οθόνες). Αν είχετε ένα τέτοιο προϊόν, οι πληροφορίες αυτές ισχύουν για το προϊόν σας. Επιπρόσθετα, ο υπολογιστής σας μπορεί να περιέχει μια εσωτερική μπαταρία σε μέγεθος νομίσματος, η οποία τροφοδοτεί με ηλεκτρικό ρεύμα το ρολόι του συστήματός σας ακόμα και όταν ο υπολογιστής είναι αποσυνδεδεμένος. Επομένως οι πληροφορίες αυτές σχετίζονται με την ασφάλεια των μπαταριών ισχύουν για όλους τους υπολογιστές.
Καταστάσεις που πρέπει να αντιμετωπίζονται άμεσα

Τα προϊόντα μπορούν να υποστούν ζημιές λόγω κακής χρήσης ή αρέσκειας. Σε αυτές, ζημιές ή τόσο σοβαρές ώστε το προϊόν να μην πρέπει να χρησιμοποιηθεί ξανά έως ότου ελεγχθεί και, αν είναι αναγκαίο, επισκευαστεί από εξοικονομημένο τεχνικό.

Όπως και με κάθε ηλεκτρονική ανακεφαλαιοποίηση, πρέπει να προσέχετε το προϊόν όταν βρίσκεται σε λειτουργία. Σε πολύ σπάνιες περιπτώσεις, μπορεί να αντιληφθείτε μια οική ή να παρατηρήσετε καπνό ή σπίθες να εξέρχονται από τον υπολογιστή σας. Επίσης, μπορεί να ακούσετε ήχους που υποδηλώνουν κάποιο πρόβλημα. Οι συνήθισες αυτές ίσως απλά να σημαίνουν ότι έχει υποστεί βλάβη κάποιο εσωτερικό εξάρτημα, με ασφάλεια και ελεγχόμενο τρόπο. Ίσως όμως υποδηλώνουν πιθανό πρόβλημα ασφάλειας. Ωστόσο, μη διακινδυνεύετε και μην προσπαθήσετε να διαγνωστεί το πρόβλημα μόνο σας.

Ελέγχετε συχνά τον υπολογιστή σας και τα εξαρτήματά του, ώστε να εντοπίζετε τυχόν ζημιές, φθορά ή ενδείξεις κινδύνου. Αν υπάρξει οποιαδήποτε αβεβαιότητα σχετικά με την κατάσταση ενός εξαρτήματος, μη χρησιμοποιήστε το προϊόν. Επικοινωνήστε με το Κέντρο Υποστήριξης Πελατών ή με τον κατασκευαστή του προϊόντος για οδηγίες σχετικά με τον έλεγχο του προϊόντος και, αν είναι απαραίτητο, την επισκευή του. Στην ενότητα “Worldwide telephone list” στη σελίδα 64 μπορείτε να βρείτε έναν κατάλογο με τους αριθμούς τηλεφώνου που μπορείτε να καλέσετε για υπηρεσίες επισκευής και υποστήριξης.

Στην απίθανη περίπτωση που παρατηρήσετε οποιαδήποτε από τις συνήθεις που αναφέρονται παρακάτω, ή αν έχετε οποιαδήποτε ανησυχίες σχετικά με την ασφάλεια του προϊόντος, σταματήστε να το χρησιμοποιείτε και αποσυνδέστε το από την πρίζα και από τις τηλεπικοινωνιακές γραμμές έως ότου επικοινωνήσετε με το Κέντρο Υποστήριξης Πελατών για περαιτέρω καθοδήγηση.

- Καλώδια ρεύματος, φις, μετασχηματιστές, επεκτάσεις καλωδίων, συσκευές προστασίας από υπέρταση ή τροφοδοτικά που έχουν κοπεί, ραγίσει, σπάσει ή υποστεί ζημιές.
- Ενδείξεις υπερθέρμανσης, καπνού, σπίθας ή φωτιάς.
- Ζημιές σε μια μπαταρία (όπως ρωγμές ή παραμόρφωση), αποφόρτιση μπαταρίας ή συσκευής που έχεις υποδεχόμενη επάνω στη μπαταρία.
- Περίεργοι ήχοι ή δυνατή οική προερχόμενη από το προϊόν.
- Ενδείξεις ότι έχει χωρεθεί υγρό ή έχει πέσει κάποιο αντικείμενο επάνω στον υπολογιστή, το καλώδιο ρεύματος ή το μετασχηματιστή.
- Έκθεση του υπολογιστή, του καλωδίου ρεύματος ή του μετασχηματιστή σε νερό.
- Πτώση του προϊόντος ή άλλες ζημιές στο προϊόν.
- Μη κανονική λειτουργία του προϊόντος παρά τη χρήση του σύμφωνα με τις οδηγίες λειτουργίας.
Σημείωση: Αν παρατηρήσετε τέτοιες συνθήκες σε προϊόν (π.χ. μια επέκταση καλωδίου) που δεν έχει κατασκευαστεί από ή για τη Lenovo, σταματήστε να χρησιμοποιείτε αυτό το προϊόν και στείλτε το στον κατασκευαστή με την κατασκευαστή του προϊόντος για περαιτέρω οδηγίες, ή έως ότου προμηθευτείτε κατάλληλο προϊόν αντικατάστασης.

Γενικές οδηγίες ασφάλειας

Τηρείτε πάντα τις ακόλουθες προφυλάξεις για να μειώσετε τον κίνδυνο τραυματισμού και πρόκλησης ζημιών.

Συντήρηση

Μην επιχειρήσετε να επισκευάσετε ένα προϊόν μόνοι σας, εκτός αν σας ζητηθεί συγκεκριμένα από το Κέντρο Υποστήριξης Πελατών. Χρησιμοποιείτε μόνο εξουσιοδοτημένο παροχέα υπηρεσιών, εγκεκριμένο για την επισκευή του συγκεκριμένου προϊόντος.

Σημείωση: Ορισμένα εξαρτήματα μπορούν να αναβαθμιστούν ή να αντικατασταθούν από τον πελάτη. Τα εξαρτήματα αυτά ονομάζονται Μονάδες Αντικαθιστώμενες από τον Πελάτη (Customer Replaceable Units - CRU). Η Lenovo προσδιορίζει ρητώς τα εξαρτήματα που αποτελούν μονάδες CRU και παρέχει τεκμηρίωση με οδηγίες όταν ενδέχεται η αντικατάστασή τους από τον πελάτη. Πρέπει να ακολουθείτε πιστά όλες αυτές τις οδηγίες όταν αντικαθιστάτε μονάδες CRU. Να βεβαιωθείτε πάντα ότι έχετε σβήσει και αποσυνδέσει το προϊόν από οποιαδήποτε πηγή ρεύματος πριν επιχειρήσετε να πραγματοποιήσετε την αντικατάσταση. Για οποιεσδήποτε ερωτήσεις ή διευκρινίσεις, επικοινωνήστε με το Κέντρο Υποστήριξης Πελατών.

Αν και δεν υπάρχουν κινητά μέρη στον υπολογιστή αφού αποσυνδέσετε το καλώδιο ρεύματος, απαιτούνται οι ακόλουθες ειδοποιήσεις για λόγους πιστοποιήσης UL.

Κίνδυνος

⚠️

Επικίνδυνα κινητά μέρη. Αποφύγετε την επαφή με τα δάχτυλά σας και με άλλα μέρη του σώματος.
Προσοχή: Προτού ξεκινήσετε την αντικατάσταση μονάδων CRU, κλείστε τον υπολογιστή και περιμένετε τρεις ώρες πέντε λεπτά μέχρι να μειωθεί η θερμοκρασία στο εσωτερικό του υπολογιστή πριν ανοίξετε το κάλυμμα.

Καλώδια ρεύματος και μετασχηματιστές
Χρησιμοποιείτε μόνο τα καλώδια ρεύματος και τους μετασχηματιστές που παρέχονται από τον κατασκευαστή του προϊόντος. Το καλώδιο ρεύματος και ο μετασχηματιστής προορίζονται αποκλειστικά για χρήση με αυτό το προϊόν. Δεν πρέπει να χρησιμοποιηθούν σε καμία περίπτωση με οποιοδήποτε άλλο προϊόν.

Ποτέ μην τυλίγετε ένα καλώδιο ρεύματος γύρω από το μετασχηματιστή ή άλλο αντικείμενο. Αν το κάνετε, μπορεί το καλώδιο να καταστραφεί, με αποτέλεσμα να φθαρεί, να κοπεί ή να τσακίσει. Αυτό μπορεί να είναι επικίνδυνο.

Να βεβαιώνεστε πάντα ότι τα καλώδια ρεύματος δεν περνούν από σημεία όπου μπορεί να πατηθούν, να γίνουν αιτία να σκοντάψει κάποιος ή να τρυπηθούν από αντικείμενα.

Να προστατεύετε τα καλώδια και τους μετασχηματιστές από υγρά. Για παράδειγμα, μην αφήνετε τα καλώδια ή τους μετασχηματιστές κοντά σε νεροχύτες, μπανιέρες ή τουαλέτες, ή σε δάπεδα που καθαρίζονται με υγρά καθαριστικά. Τα υγρά μπορούν να προκαλέσουν βραχυκύκλωμα, ειδικά αν το καλώδιο ή ο μετασχηματιστής έχει φθαρει λόγω κακής χρήσης. Τα υγρά μπορούν επίσης να προκαλέσουν σταδιακή διάβρωση των ακροδέκτη του καλώδιου ρεύματος ή/και του μετασχηματιστή, κάτι που μπορεί να προκαλέσει υπερθέρμανση.

Πάντα να συνδέετε τα καλώδια ρεύματος και τα καλώδια σήματος με τη σωστή σειρά και να βεβαιωθείτε ότι όλα τα καλώδια ρεύματος έχουν συνδεθεί πλήρως και με ασφάλεια στις υποδοχές.

Μη χρησιμοποιήστε οποιονδήποτε μετασχηματιστή στον οποίο υπάρχουν ενδείξεις διάβρωσης στους ακροδέκτες εισόδου εναλλασσομένης τάσης ή/και ενδείξεις υπερθέρμανσης (π.χ. παραμορφωμένο πλαστικό) στην είσοδο εναλλασσομένης τάσης ή σε οποιοδήποτε σημείο του μετασχηματιστή.

Μη χρησιμοποιείτε καλώδια ρεύματος στον οποίο υπάρχουν ενδείξεις διάβρωσης ή υπερθέρμανσης στους ακροδέκτες σε οποιοδήποτε άκρο ή αν το καλώδιο έχει υποστεί οποιαδήποτε φθορές.

Επεκτάσεις καλωδίων και σχετικές συσκευές
Βεβαιωθείτε ότι οι επεκτάσεις καλωδίων, οι συσκευές προστασίας από υπέρταση, οι μονάδες αδιάλειπτης παροχής ρεύματος και τα πολύπλευρα που χρησιμοποιείτε καλύπτουν τις ηλεκτρικές προδιαγραφές του προϊόντος. Ποτέ μην υπερφορτώνετε αυτές τις συσκευές. Αν χρησιμοποιηθούν πολύπλευρα, το φορτίο δεν πρέπει να
υπερβαίνει τις προδιαγραφές του πολύπριζου. Για οποιεσδήποτε ερωτήσεις σχετικά με τα ηλεκτρικά φορτία και τις προδιαγραφές, συμβουλευτείτε έναν ηλεκτρόλογο.

Φις και πρίζες
Αν κάποια πρίζα που σκοπεύετε να χρησιμοποιήσετε με τον υπολογιστή έχει ενδείξεις ζημιών ή διάβρωσης, μην τη χρησιμοποιήσετε έως ότου αντικατασταθεί από ηλεκτρόλογο.

Μη λυγίζετε ή τροποποιείτε το φις. Αν το φις έχει υποστεί ζημιές, επικοινωνήστε με τον κατασκευαστή για να το αντικαταστήσετε.

Ορισμένα προϊόντα έχουν φις τρίων ακροτεκτών. Το φις αυτό μπορεί να συνδεθεί μόνο σε γειωμένη ηλεκτρική πρίζα. Αυτό γίνεται για λόγους ασφάλειας. Μην παρακάμψετε αυτή την προφύλαξη επιχειρώντας να συνδέσετε το φις σε μη γειωμένη πρίζα. Αν δεν μπορείτε να συνδέσετε το φις στην πρίζα, επικοινωνήστε με έναν ηλεκτρόλογο για να προμηθευτείτε έναν εγκεκριμένο προσαρμογέα ή για να αντικαταστήσετε την πρίζα με άλλη, κατάλληλη πρίζα. Ποτέ μην υπερφορτώνετε μια πρίζα. Το συνολικό φορτίο του συστήματος δεν πρέπει να υπερβαίνει το 80% του φορτίου που προβλέπεται από τις προδιαγραφές του κυκλώματος διακλάδωσης. Για οποιεσδήποτε ερωτήσεις σχετικά με τα ηλεκτρικά φορτία και τις προδιαγραφές του κυκλώματος διακλάδωσης, συμβουλευτείτε έναν ηλεκτρόλογο.

Βεβαιωθείτε ότι η πρίζα ρεύματος που χρησιμοποιείτε είναι σωστά καλωδιωμένη, εύκολα προσβάσιμη και βρίσκεται κοντά στον εξοπλισμό. Μην τεντώνετε τα καλώδια ρεύματος με τρόπο που μπορεί να προκληθεί φθορά στα καλώδια.

Συνδέστε και αποσυνδέστε τον εξοπλισμό προσεκτικά από την πρίζα.

Μπαταρίες
Όλες οι προσωπικοί υπολογιστές που κατασκευάζονται από τη Lenovo περιέχουν μια μη επαναφορτιζόμενη μπαταρία που παρέχει ηλεκτρικό ρεύμα στο ρολό του συστήματος. Επίσης, πολλά φορητά προϊόντα, όπως οι φορητοί υπολογιστές ThinkPad, χρησιμοποιούν μια επαναφορτιζόμενη μπαταρία για την παροχή ρεύματος στο σύστημα όταν δεν είναι συνδεδεμένο σε πρίζα. Οι μπαταρίες που παρέχονται από τη Lenovo για χρήση με το προϊόν σας έχουν υποβληθεί σε δοκιμές συμβατότητας και πρέπει να αντικαθίστανται μόνο με εγκεκριμένες μπαταρίες.

Ποτέ μην επιχειρήσετε να ανοίξετε ή να επισκευάσετε μια μπαταρία. Μη χτυπήσετε, τρυπήσετε ή κάψετε μπαταρίες και μη βραχυκυκλώσετε τις μεταλλικές επιφάνειες. Μην εκθέτετε τη μπαταρία σε νερό ή άλλα υγρά. Η επαναφόρτιση της μπαταρίας πρέπει να γίνεται μόνο σύμφωνα με τις οδηγίες που περιλαμβάνονται στην τεκμηρίωση του προϊόντος.
Η κακή χρήση ή ο κακός χειρισμός μπαταριών μπορεί να προκαλέσει υπερθέρμανση της μπαταρίας, η οποία μπορεί να έχει ως αποτέλεσμα την έκλωση αερίων ή φλόγας από τη μπαταρία. Αν η μπαταρία σας έχει υποστεί βλάβη ή αν παρατηρήσετε σοβαρά διαρροή από τη μπαταρία ή συσσώρευση υλικών στα άκρα της μπαταρίας, σταματήστε να τη χρησιμοποιείτε και αντικαταστήστε τη με καινούργια από τον κατασκευαστή της μπαταρίας.

Οι μπαταρίες μπορούν να υποστούν βλάβη όταν παραμένουν αχρησιμοποιημένες για μεγάλες χρονικές περιόδους. Για ορισμένες επαναφορτίζομενες μπαταρίες (και ειδικά για μπαταρίες λιθίου-ιόντων), η παραμονή της μπαταρίας εκτός χρήσης σε κατάσταση αποφόρτισης μπορεί να αυξήσει τον κίνδυνο βραχυκύκλωσης της μπαταρίας, η οποία μπορεί να μικρύνει τη διάρκεια ζωής της μπαταρίας, αλλά και να αποτελέσει κίνδυνο για την ασφάλεια. Μην αφήνετε τις επαναφορτίζομενες μπαταρίες λιθίου-ιόντων να αποφορτίζονται πλήρως και μην τις αποθηκεύετε σε κατάσταση αποφόρτισης.

**Θερμότητα και εξαερισμός**

Οι υπολογιστές παράγουν θερμότητα όταν βρίσκονται σε λειτουργία καθώς και κατά τη φόρτιση των μπαταριών. Οι φορητοί υπολογιστές παράγουν μεγάλη θερμότητα λόγω του μικρού τους μεγέθους. Τηρείτε πάντα τις ακόλουθες προφυλάξεις:

- Μην αφήνετε τη βάση του υπολογιστή σε επαφή με το μηρό ή άλλο μέρος του σώματος σας για μεγάλο χρονικό διάστημα όταν είναι σε λειτουργία ο υπολογιστής ή όταν φορτίζεται η μπαταρία. Ο υπολογιστής παράγει κάποια θερμότητα κατά τη διάρκεια της κανονικής λειτουργίας του. Η παρατεταμένη επαφή με το σώμα μπορεί να προκαλέσει δυσφορία ή ακόμη και εγκαύματα.

- Μη χρησιμοποιείτε τον υπολογιστή όταν φορτίζετε την μπαταρία κοντά σε εύφλεκτα υλικά ή σε περιβάλλον όπου υπάρχει κίνδυνος εκρήξεων.

- Οι σχισμές εξαερισμού, οι ανεμιστήρες ή/και οι ψύκτες του προϊόντος παρέχονται για σκοπούς ασφάλειας, άνεσης και αξίας της λειτουργίας. Εάν τοποθετήσετε το προϊόν επάνω σε κρεβάτι, καναπέ, χαλί ή άλλη μη σταθερή επιφάνεια ίσως φράξετε κατα λάθος αυτά τα εξαρτήματα. Ποτέ μην φράσετε, καλύπτετε ή απενεργοποιείτε αυτά τα εξαρτήματα.

Πρέπει να ελέγχετε τον επιτραπέζιο υπολογιστή σας για συσσώρευση σκόνης κάθε τρεις μήνες. Πριν από τον έλεγχο, απενεργοποιήστε τον υπολογιστή και αποσυνδέστε το καλώδιο παροχής ρεύματος από την πρίζα. Στη συνέχεια, αφαιρέστε τη σκόνη από τα ανοιγματα εξαερισμού καθώς και από τις υπάρχουσες στην πρόσοψη. Εάν παρατηρήσετε συσσώρευση σκόνης στο εξωτερικό του υπολογιστή, πρέπει να ελέγξετε και το εσωτερικό του υπολογιστή και αν αφαιρέστε τη σκόνη από την ψύκτρα, τα ανοιγματα εξαερισμού του τροφοδοτικού και τους ανεμιστήρες. Πριν ανοίξετε το κάλυμμα του υπολογιστή απενεργοποιήστε τον υπολογιστή και αποσυνδέστε το καλώδιο παροχής ρεύματος. Εάν είναι δυνατόν, αποφύγετε τη χρήση του υπολογιστή σε σημεία όπου παρατηρείται ιδιαίτερη αυξημένη αυξημένη
κινητικότητα. Εάν αυτό δεν είναι δυνατό, θα πρέπει να ελέγχετε και, αν είναι απαραίτητο, να καθαρίζετε τον υπολογιστή σας συχνότερα.

Για την ασφάλειά σας και για τη βελτιστοποίηση της απόδοσής του υπολογιστή, να παίρνετε πάντα τις ακόλουθες βασικές προφυλάξεις όσον αφορά τον επιτραπέζιο υπολογιστή:

- Όταν ο υπολογιστής είναι συνδεδεμένος σε πρίζα παροχής ρεύματος, να διατηρείτε το κάλυμμα του κλειστό.
- Να χειριστείστε σωστά το περίβλημα του υπολογιστή για συσσώρευση σκόνης.
- Να αφαιρείτε τη σκόνη από τα ανοίγµατα αερισµού καθώς και από τις οπές στην πρόσοψη. Σε σημεία με ιδιαίτερη κινητικότητα και υψηλή συσσώρευση σκόνης, απαιτείται συχνότερος καθαρισμός.
- Μην αποκόψετε και μην περιορίσετε τη ροή του αέρα βροχής από τον υπολογιστή.
- Μην φράξετε τα ανοίγµατα αερισµού στο πίσω μέρος του υπολογιστή.
- Μην χρησιμοποιείτε συσκευές φιλτραρίσµατος αέρα που δεν έχουν σχεδιασθεί για το ThinkCentre.
- Μην χρησιμοποιείτε συσκευές φιλτραρίσµατος αέρα που δεν έχουν σχεδιασθεί για το ThinkCentre.

Ασφάλεια των μονάδων CD και DVD

Οι μονάδες CD και DVD περιστρέφουν δίσκους με μεγάλη ταχύτητα. Αν κάποιο CD ή DVD έχει Ρωγής ή άλλη υγιεινή ζημιά, μπορεί να σπάσει ή να διαλυθεί κατά τη χρήση της μονάδας CD. Για να προστατευθείτε από πιθανό τραυματισμό σε τέτοια περίπτωση και να μειώσετε το κίνδυνο βλάβης του υπολογιστή σας, κάντε τα ακόλουθα:

- Αποθηκεύετε πάντα τους δίσκους CD/DVD στην αρχική τους συσκευασία.
- Αποθηκεύετε πάντα τους δίσκους CD/DVD μακριά από τις ακτίνες του ήλιου και από πηγές θερμότητας.
- Αφαιρείτε τους δίσκους CD/DVD από τον υπολογιστή όταν δεν χρησιμοποιούνται.
- Μην λυγίζετε τους δίσκους CD/DVD και μην τους βάζετε βίαια μέσα στον υπολογιστή ή στη θήκη τους.
- Ελέγχετε τους δίσκους CD/DVD πριν από κάθε χρήση για να βεβαιωθείτε ότι δεν έχουν ρωγής. Μη χρησιμοποιείτε δίσκους που έχουν ρωγής ή έχουν υποστεί ζημιές.
Πρόσθετες πληροφορίες ασφάλειας

⚠️ ΚΙΝΔΥΝΟΣ

Το ηλεκτρικό ρεύμα στα καλώδια ρεύματος, τηλεφώνου και επικοινωνίας είναι επικίνδυνο. Για να αποφύγετε τον κίνδυνο ηλεκτροπληξίας, όταν εγκαθιστάτε, μετακινείτε ή ανοίγετε τα καλώδια του προϊόντος ή των προσαρμοσμένων συσκευών, συνδέετε και αποσυνδέετε τα καλώδια όπως περιγράφεται παρακάτω. Αν παρέχεται τριαγωνικό καλώδιο ρεύματος με αυτό το προϊόν, πρέπει να συνδέετε σε σωστά γειωμένη πρίζα.

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<td>Συνδέστε το καλώδιο ρεύματος στην πρίζα.</td>
<td>Αποσυνδέστε όλα τα καλώδια από τις συσκευές.</td>
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ΚΙΝΔΥΝΟΣ
Μειώστε τον κίνδυνο πυρκαγιάς και ηλεκτροπληξίας τηρώντας πάντα τις βασικές προφυλάξεις, όπως:
• Μη χρησιμοποιείτε τον υπολογιστή μέσα ή κοντά σε νερό.
• Κατά τη διάρκεια καταιγίδας:
  – Μη χρησιμοποιείτε τον υπολογιστή σας με καλωδιακή τηλεφωνική σύνδεση.
  – Μη συνδέετε ή αποσυνδέετε το καλώδιο από την τηλεφωνική υποδοχή στον τοίχο.

ΚΙΝΔΥΝΟΣ
Το πακέτο μπαταριών πρέπει να αποθηκεύεται σε θερμοκρασία δοματίου, φορτισμένο σε ποσοστό περίπου 30 - 50 % της χωρητικότητάς του. Συνιστούμε το πακέτο μπαταριών να φορτίζεται μία φορά ετησίως, ώστε να αποφεύγεται η υπερβολική αποφόρτισή του.

ΚΙΝΔΥΝΟΣ
Αν το πακέτο επαναφορτίσιμων μπαταριών δεν αντικατασταθεί με το σωστό τρόπο, υπάρχει κίνδυνος έκρηξης. Το πακέτο μπαταριών περιέχει μικρή ποσότητα επιβλαβών ουσιών. Για να αποφύγετε τυχόν τραυματισμό:
• Αντικαταστήστε τη μπαταρία μόνο με μπαταρία του προτεινόμενου από τη Lenovo τύπου.
• Κρατήστε το πακέτο μπαταριών μακριά από φωτιά.
• Μην το εκθέσετε σε νερό ή βροχή.
• Μην επιχειρήσετε να το αποσυναρμολογήσετε.
• Μην το βραχυκυκλώσετε.
• Κρατήστε το μακριά από παιδιά.

Μην πέτατε το πακέτο μπαταριών σε απορρίμματα που καταλήγουν σε χωματερές ή χώρους υγειονομικής ταφής απορριμμάτων. Η απόρριψη της μπαταρίας πρέπει να γίνεται σύμφωνα με τις τοπικές διατάξεις ή κανονισμούς και τις προδιαγραφές ασφάλειας της εταιρείας σας.
ΚΙΝΔΥΝΟΣ

Αν η εφεδρική μπαταρία δεν αντικατασταθεί με το σωστό τρόπο, υπάρχει κίνδυνος έκρηξης.

Η μπαταρία λιθίου περιέχει λίθιο και μπορεί να εκραγεί αν ο χειρισμός ή η απόρριψή της δεν γίνει με το σωστό τρόπο.

Αντικαταστήστε τη μόνο με μπαταρία του ίδιου τύπου.

Για να αποφύγετε τυχόν τραυματισμό ή θάνατο, μην:
(1) την πετάξετε ή τη βυθίσετε σε νερό,
(2) την εκθέσετε σε θερμοκρασίες μεγαλύτερες των 100°C (212°F), ή (3) επιχειρήσετε να την επισκευάσετε ή να την αποσυναρμολογήσετε. Η απόρριψή της πρέπει να γίνεται σύμφωνα με τις τοπικές διατάξεις και κανονισμούς και τις προδιαγραφές ασφάλειας της εταιρείας σας.

ΠΡΟΣΟΧΗ:

Όταν έχετε προσθέσει ή αναβαθμίσει μια κάρτα CDC ή Mini PCI ή μια κάρτα μνήμης, μη χρησιμοποιήσετε τον υπολογιστή πριν κλείσετε το κάλυμμα. Ποτέ μη χρησιμοποιείτε τον υπολογιστή όταν το κάλυμμα είναι ανοιχτό.

ΠΡΟΣΟΧΗ:

Η λάμπα φθορισμού που περιέχεται στην οθόνη υγρών κρυστάλλων (LCD) περιέχει υδράργυρο. Μην την πετάτε σε απορρίμματα που καταλήγουν σε χημικές ή χώρους υγειονομικής ταρτής απορριμμάτων. Η απόρριψή της πρέπει να γίνεται σύμφωνα με τις τοπικές διατάξεις ή κανονισμούς.

Η οθόνη υγρών κρυστάλλων είναι κατασκευασμένη από γυαλί και υπάρχει κίνδυνος να σπάσει αν ο υπολογιστής χτυπηθεί ή πέσει κάτω. Αν η οθόνη υγρών κρυστάλλων σπάσει και το υγρό που περιέχεται σε αυτήν έρθει σε επαφή με τα μάτια ή τα χέρια σας, πρέπει αμέσως να τα πλύνετε με νερό για τουλάχιστον 15 λεπτά. Αν παρατηρήσετε οποιεσδήποτε συμπτώματα μετά την πλύση, ζητήστε ιατρική φροντίδα.
Για να ελαττώσετε τον κίνδυνο πυρκαγιάς, ηλεκτροπληξίας ή τραυματισμού κατά τη χρήση τηλεφωνικού εξοπλισμού, τηρείτε πάντα τις βασικές προφυλάξεις, όπως:

- Ποτέ μην εγκαθιστάτε τηλεφωνικά καλώδια κατά τη διάρκεια καταιγίδας.
- Ποτέ μην εγκαθιστάτε υποδοχές τηλεφωνικών γραμμών σε υγρά σημεία, εκτός αν η υποδοχή είναι ειδικά σχεδιασμένη για υγρές συνθήκες.
- Ποτέ μην αγγίζετε µη µονωµένα τηλεφωνικά καλώδια ή ακροδέκτες, εκτός αν η τηλεφωνική γραµµή έχει αποσυνδεθεί από το δίκτυο.
- Η εγκατάσταση ή τροποποίηση τηλεφωνικών γραμμών απαιτεί προσοχή.
- Αποφεύγετε τη χρήση τηλεφώνων (εκτός αν είναι ασύρµατου τύπου) κατά τη διάρκεια καταιγίδας. Ενδέχεται να υπάρξει μικρός κίνδυνος ηλεκτροπληξίας από κεραυνό.
- Σε περίπτωση διαρροής αερίου, μη χρησιμοποιήστε τηλέφωνο στο χώρο της διαρροής για να την αναφέρετε.
- Χρησιμοποιείτε μόνο καλώδιο τηλεφώνου Αρ. 26 AWG ή μεγαλύτερο (παχύτερο).

Δήλωση σχετικά με τις προδιαγραφές των συσκευών laser


CLASS 1 LASER PRODUCT
LASER KLASSE 1
LUOKAN 1 LASERLAITE
APPAREIL A LASER DE CLASSE 1
KLASS 1 LASER APPARAT

Η µονάδα είναι πιστοποιηµένη από τον κατασκευαστή ως προϊόν που καλύπτει τις απαιτήσεις του Κώδικα Οµοσπονδιακών Κανονισµών 21 του Υπουργείου Υγείας και Ανθρωπίνων Υπηρεσιών των ΗΠΑ (DHHS 21 CFR) και συγκεκριµένα του Υποκεφαλαίου J για προϊόντα laser Κατηγορίας 1.

Σε άλλες χώρες, η µονάδα είναι πιστοποιηµένη ως προϊόν που καλύπτει τις απαιτήσεις των προτύπων IEC825 και EN60825 για προϊόντα laser Κατηγορίας 1.
ΚΙΝΔΥΝΟΣ

Μην ανοίζετε την οπτική μονάδα αποθήκευσης. Δεν υπάρχουν στο εσωτερικό της μονάδας εξαρτήματα που μπορούν να επισκευαστούν από το χρήστη ή ρυθμίσεις που μπορούν να γίνουν από το χρήστη.

Η διαφορετική από την περιγραφόμενη χρήση κουμπιών και ρυθμιστών ή εκτέλεση διαδικασιών μπορεί να έχει ως αποτέλεσμα την έκθεση σε επικίνδυνη ακτινοβολία.

Τα προϊόντα laser Κατηγορίας 1 δεν θεωρούνται επικίνδυνα. Ο σχεδιασμός του συστήματος laser και της οπτικής μονάδας αποθήκευσης εξασφαλίζει τη μη έκθεση σε ακτινοβολία laser, πάνω από το επίπεδο της Κατηγορίας 1, σε συνθήκες συνήθης λειτουργίας, συντήρησης από το χρήστη ή παροχής υπηρεσιών.

Ορισμένες μονάδες περιέχουν ενσωματωμένη δίοδο laser Κατηγορίας 3Α. Σημειώνονται τα ακόλουθα:

ΚΙΝΔΥΝΟΣ

Εκπέμπεται ορατή και αόρατη ακτινοβολία laser όταν το κάλυμμα είναι ανοικτό. Αποφεύγετε την αποθήκευση με απόκοπη διαδικασία και χρήστη. Μην κοιτάτε αποθήκευση στην κατεύθυνση της δέσμης και μην την εξετάσετε με οπτικά εργαλεία.

ΚΙΝΔΥΝΟΣ

Αποθηκεύστε τα υλικά συσκευασίας σε ασφαλή χώρο μακριά από παιδιά για να αποφύγετε τον κίνδυνο ασφαξίας από πλαστικές σακούλες.

Πολλά προϊόντα και προαιρετικά τμήματα PC περιέχουν καλώδια ή σύρματα, π.χ. καλώδια ρεύματος ή καλώδια σύνδεσης του προαιρετικού τμήματος με το PC. Αν το προϊόν αυτό έχει τέτοια καλώδια ή σύρματα, τότε ισχύει η ακόλουθη προειδοποίηση:

ΠΡΟΕΙ∆ΟΠΟΙΗΣΗ: Ο χειρισμός του καλωδίου αυτού του προϊόντος ή των καλωδίων των προαιρετικών τμημάτων που πολούνται με αυτό το προϊόν, θα σας εκθέσει σε μόλυβδο, χημική ουσία που η Πολιτεία της Καλιφόρνιας θεωρεί ότι προκαλεί καρκίνο και γενετικές ανωμαλίες ή άλλες αναπαραγωγικές βλάβες. Πλένετε τα χέρια σας μετά το χειρισμό των καλωδίων.
ΚΙΝΔΥΝΟΣ

Οδηγία ασφάλειας για χρήστες στην Αυστραλία

Μη συνδέετε το καλώδιο τηλεφώνου όταν χρησιμοποιείτε τον υπολογιστή ως "tablet".

Φυλάξτε αυτές τις οδηγίες.
Important notice for users

Important regulatory notice for users

The ThinkPad X41 Tablet computer complies with the radio frequency and safety standards of any country or region in which it has been approved for wireless use. You are requested to install and use your ThinkPad computer in strict accordance with the local RF regulations. Before you use the ThinkPad X41 Tablet computer, please find and read Regulatory Notice for ThinkPad X41 Tablet, the notice that supplements this Service and Troubleshooting Guide. The notice is included in the package with this publication.

Information about hard disk capacity

Instead of providing a recovery CD or a Windows® CD with your computer, Lenovo provides simpler methods of accomplishing the tasks typically associated with these CDs. The files and programs for these alternative methods are on your hard disk, which eliminates having to locate misplaced CDs and problems associated with using an incorrect CD version.

The complete backup of all the files and programs that Lenovo preinstalled on your computer resides in a hidden section, or partition, of the hard disk. Although hidden, the backups in the partition consume hard disk space. Therefore, when checking the capacity of your hard disk according to Windows, you might note that the total capacity of the disk appears to be smaller than anticipated. This discrepancy is explained by the contents of the hidden partition. (See “Recovering pre-installed software” on page 31.)

For more information about recovering your hard disk to the original preinstalled contents, refer to your on-system help source. Press the blue Access IBM button or click the Access IBM icon on your desktop, and then browse the Learn section for various topics that cover backing up and recovering.
Finding information with the Access IBM button

The blue Access IBM button can help you in many situations when your computer is working normally, and even when it is not. At your desktop, press the Access IBM button to open ThinkVantage™ Productivity Center. ThinkVantage Productivity Center is your on-board computer help center that brings you informative illustrations and easy-to-follow instructions for getting started and staying productive.

You can also use the Access IBM button to interrupt the startup sequence of your computer and start the ThinkVantage Rescue and Recovery™ workspace. Use the Rescue and Recovery workspace to do the following:

- Get essential system information.
- Troubleshoot problems using diagnostics.
- Restore your backups, assuming you have made backups using the Rescue and Recovery program.
- Start the BIOS Setup Utility where you can view and change BIOS settings.
- Start a utility that enables you to change your startup sequence.

Some of the topics in your help system contain brief video clips that show you how to perform certain tasks, such as replacing your battery, inserting a PC Card, or upgrading your memory. Use the controls shown to play, pause,
and rewind the video clip.

**Note:** If a bootable device is attached to the computer, and the boot priority of that device is higher than IDE HDD, the computer boots from that device.
Chapter 1. Overview of your new ThinkPad computer

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Your ThinkPad at a glance

Front view

- System-status indicators
- Access IBM button
- TrackPoint
- Computer display
- Power button
- Fingerprint reader
- Security keyhole
- Modem connector
- Ethernet connector
- USB connector
- Infrared port
- PC Card slot
- Microphone jack
- SD Card slot
- Stereo headphone jack
Your ThinkPad at a glance
Features

Processor
- Intel® Pentium® M processor

Memory
- PC2-4200 double data rate II (DDR2) synchronous dynamic random access memory (DRAM)

Storage device
- 1.8-inch hard disk drive

Display
The color display uses TFT technology:
- Size: 12.1 inch
- Resolution:
  - LCD: 1024-by-768
  - External monitor: Up to 2048-by-1536
- Tablet Digitizer
- Brightness control

Keyboard
- 87-key, 88-key, or 92-key (including Fn key, and Forward and Backward keys)
- Fingerprint reader (on some models)
- Forward and Backward keys
- TrackPoint®
- Fn key function
- Access IBM button
- Volume control buttons

External interface
- External-monitor connector
- PC Card slot (Type I or Type II PC Card)
- Secure Digital card slot
- Stereo headphone jack
- Microphone jack
- Universal Serial Bus (USB) connector
- Powered USB connector (Universal Serial Bus (USB) connector with power connector)
- Infrared port
- RJ11 telephone connector
- RJ45 Ethernet connector
- Docking connector
- Integrated wireless LAN feature (on some models)
- Integrated Bluetooth feature (on some models)
Specifications

Size
• Width: 274 mm (10.8 in.)
• Depth:
  – 246 mm (9.7 in.) with 4 Cell battery pack installed
  – 269 mm (10.6 in.) with 8 Cell battery pack installed
• Height: 29 mm – 32 mm (1.14 in. – 1.26 in.)

Environment
• Maximum altitude without pressurization: 3048 m (10,000 ft)
• Temperature
  – At altitudes up to 2438 m (8000 ft)
    - Operating with no disc: 5° to 35°C (41° to 95°F)
    - Operating with a disc: 10° to 35°C (50° to 95°F)
    - Not operating: 5° to 43°C (41° to 110°F)
  – At altitudes above 2438 m (8000 ft)
    - Maximum operating temperature, 31.3°C (88° F)

  Note: When you charge the battery pack, its temperature must be at least
  10°C (50°F).
• Relative humidity:
  – Operating with no disc in the drive: 8% to 90%
  – Operating with a disc in the drive: 8% to 80%

Heat output
• 56 W (191 Btu/hr) maximum

Power source (ac adapter)
• Sine-wave input at 50 to 60 Hz
• Input rating of the ac adapter: 100-240 V ac, 50 to 60 Hz

Battery pack
• ThinkPadX41 Tablet 4 Cell Lithium-ion (Li-Ion) battery pack
  – Nominal voltage: 14.4 V dc
  – Capacity: 1.9 AH
• ThinkPadX41 Tablet 8 Cell Li-Ion battery pack
  – Nominal voltage: 14.4 V dc
  – Capacity: 4.3 AH
Caring for your ThinkPad computer

Though your computer is designed to function reliably in normal work environments, you need to use common sense in handling it. By following these important tips, you will get the most use and enjoyment out of your computer.

Important tips:

Be careful about where and how you work
• Do not leave the base of your computer in contact with your lap or any part of your body for an extended period when the computer is functioning or when the battery is charging. Your computer dissipates some heat during normal operation. This heat is a function of the level of system activity and battery charge level. Extended contact with your body, even through clothing, could cause discomfort or, eventually, a skin burn.
• Place liquids away from your computer to avoid spills, and keep your computer away from water (to avoid the danger of electrical shock).
• Store packing materials safely out of the reach of children to prevent the risk of suffocation from plastic bags.
• Keep your computer away from magnets, activated cellular phones, electrical appliances, or speakers (within 13 cm/5 in).
• Avoid subjecting your computer to extreme temperatures (below 5°C/41°F or above 35°C/95°F).

Be gentle with your computer
• Avoid placing any objects (including paper) between the display and the keyboard or under the keyboard.
• Do not drop, bump, scratch, twist, hit, vibrate, push or place heavy objects on your computer, display, or external devices.
• Your computer display is designed to be opened and used at an angle slightly greater than 90 degrees. Do not open the display beyond 180 degrees, as this might damage the computer hinge.

Carry your computer properly
• Before moving your computer, be sure to remove any media, turn off attached devices, and disconnect cords and cables.
• Be sure your computer is in standby or hibernation mode, or turned off, before moving it. This will prevent damage to the hard disk drive and data loss.
• When picking up your open computer, hold it by the bottom. Do not pick up or hold your computer by the display.
Caring for your ThinkPad computer

• Use a quality carrying case that provides adequate cushion and protection. Do not pack your computer in a tightly packed suitcase or bag.

Handle storage media and drives properly
• Avoid inserting diskettes at an angle and attaching multiple or loose diskette labels, as these can lodge in the drive.
• If your computer comes with an optical drive such as CD, DVD, or CD-RW/DVD drive, do not touch the surface of a disc or the lens on the tray.
• Wait until you hear the CD or DVD click into the center pivot of an optical drive such as CD, DVD, or CD-RW/DVD drive before closing the tray.
• When installing your hard disk, diskette, CD, DVD, or CD-RW/DVD drive, follow the instructions shipped with your hardware, and apply pressure only where needed on the device. See your on-board help system for information on replacing your hard disk drive (open ThinkVantage Productivity Center by pressing the Access IBM button).

Take care in setting passwords
• Remember your passwords. If you forget a supervisor or hard disk password, Lenovo will not reset it, and you might have to replace your system board or hard disk drive.

Tips on using your computer in tablet mode
• If you close the computer display, make sure that the display is rotated either at 0 degrees, so that if faces the keyboard, or at 180 degrees, so that the back of the display faces the keyboard.
• Do not pick up or hold the computer by the display only.
• Do not hit, vibrate, or bump the computer display.
• To allow free ventilation, do not place any obstacle, such as a thick-piled carpet or a soft cushion, in front of the fan.
• When you use the computer in picture frame mode, in which the display is rotated until the back of the display is facing the keyboard, hold the display with one hand and use the Tablet Digitizer Pen.
• If you hold the computer in one hand while using it in tablet mode, do not expose it to excessive vibration, shock, or rotation.
• Do not use the computer outdoors. Do not expose it to rain.
• If you put your computer in a carrying case, put it into notebook mode and close the display.

Tips on using the Tablet Digitizer Pen
• Use only the Tablet Digitizer Pen that was shipped with your ThinkPad X41 Tablet computer or that you purchased with that computer as an option.
**Caring for your ThinkPad computer**

Only this pen is designed for use with the ThinkPad X41 Tablet computer. Any other pen might stick in the penholder or cause other problems.

- The Tablet Digitizer Pen is not waterproof. Take care not to soak or dip the pen in water.

**Other important tips**

- Your computer modem might use only an analog telephone network, or public-switched telephone network (PSTN). Do not connect the modem to a PBX (private branch exchange) or any other digital telephone extension line because this could damage your modem. Analog phone lines are often used in homes, while digital phone lines are often used in hotels or office buildings. If you are not sure which kind of phone line you are using, contact your telephone company.

- Your computer might have both an Ethernet connector and a modem connector. If so, be sure to connect your communication cable to the correct one, so your connector is not damaged. See your on-board help system for information on the location of these connectors (press the Access IBM button to open ThinkVantage Productivity Center).

- Register your ThinkPad products with Lenovo (refer to the Web page: www.lenovo.com/register/). This can help authorities return your computer to you if it is lost or stolen. Registering your computer also enables Lenovo to notify you about possible technical information and upgrades.

- Only an authorized ThinkPad repair technician should disassemble and repair your computer.

- Do not modify or tape the latches to keep the display open or closed.

- Take care not to turn your computer over while the ac adapter is plugged in. This could break the adapter plug.

- Turn off your computer if you are replacing a device in a device bay, or else verify that the device is warm-or hot-swappable.

- If you exchange drives in your computer, reinstall the plastic bezel faces (if supplied).

- Store your external and removable hard disk, diskette, CD, DVD, and CD-RW/DVD drives in the appropriate containers or packaging when they are not being used.

- Before you install any of the following devices, touch a metal table or a grounded metal object. This action reduces any static electricity from your body. The static electricity could damage the device.
  - PC Card
  - Smart Card
  - Memory Card, such as SD Card, Memory Stick, and MultiMediaCard
  - Memory module
Caring for your ThinkPad computer

- Mini-PCI Card
- Communication Daughter Card

Cleaning the cover of your computer

Occasionally clean your computer as follows:
1. Prepare a mixture of a gentle kitchen-use detergent (one that does not contain abrasive powder or strong chemicals such as acid or alkaline). Use 5 parts water to 1 part detergent.
2. Absorb the diluted detergent into a sponge.
3. Squeeze excess liquid from the sponge.
4. Wipe the cover with the sponge, using a circular motion and taking care not to let any excess liquid drip.
5. Wipe the surface to remove the detergent.
6. Rinse the sponge with clean running water.
7. Wipe the cover with the clean sponge.
8. Wipe the surface again with a dry, soft lint-free cloth.
9. Wait for the surface to dry completely and remove any cloth fibers from the computer surface.

Cleaning your computer keyboard

1. Absorb some isopropyl rubbing alcohol on a soft, dust-free cloth.
2. Wipe each keytop surface with the cloth. Wipe the keys one by one; if you wipe several keys at a time, the cloth may hook onto an adjacent key and possibly damage it. Make sure that no liquid drips onto or between the keys.
3. Allow to dry.
4. To remove any crumbs and dust from beneath the keys, you can use a camera blower with a brush or cool air from a hair drier.

Note: Avoid spraying cleaner directly on the display or the keyboard.

Cleaning your computer display

1. Gently wipe the display with a dry, soft lint-free cloth. If you see a scratchlike mark on your display, it might be a stain transferred from the keyboard or the TrackPoint pointing stick when the cover was pressed from the outside.
2. Wipe or dust the stain gently with a soft, dry cloth.
3. If the stain remains, moisten a soft, lint-free cloth with water or a 50-50 mixture of isopropyl alcohol and water that does not contain impurities.
4. Wring out as much of the liquid as you can.
Caring for your ThinkPad computer

5. Wipe the display again; do not let any liquid drip into the computer.
6. Be sure to dry the display before closing it.

Care for the fingerprint reader

The following actions could damage the fingerprint reader or cause it not to work properly:
- Scratching the surface of the reader with a hard, pointed object.
- Scraping the surface of the reader with your nail or anything hard.
- Using or touching the reader with a dirty finger.

If you notice any of the following conditions, gently clean the surface of the reader with a dry, soft, lint-free cloth:
- The surface of the reader is dirty or stained.
- The surface of the reader is wet.
- The reader often fails to enroll or authenticate your fingerprint.
## Chapter 2. Solving computer problems

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Solving computer problems

Diagnosing problems

If you have a problem with your computer, you can test it by using PC-Doctor for Windows. To run PC-Doctor for Windows, do as follows:

1. Click Start.
2. Move the pointer to All Programs and then to PC-Doctor for Windows.
3. Click PC-Doctor.
4. Choose one of the tests, from either Device Categories or Test Scripts.

Attention
Running any tests may take up to several minutes or longer. Make sure you have time to run the entire test; do not interrupt the test while it is running.

The System Test of the Test Scripts runs some tests of critical hardware components, but it does not run all of the diagnostic tests in PC-Doctor for Windows. If PC-Doctor for Windows reports that all of the tests in the System Test have been run and that it has found no problems, consider running more of the tests in PC-Doctor for Windows.

If you are preparing to contact the Support Center, be sure to print the test log so that you can rapidly provide information to the help technician.

Troubleshooting

If you do not find your problem here, refer to your on-board help system. To open ThinkVantage Productivity Center, press the Access IBM button. The following section only describes problems that might prevent you from accessing the help system.

Error messages

Notes:
1. In the charts, x can be any character.
2. The version of PC-Doctor referred to here is PC-Doctor for Windows.

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<tr>
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<th>Solution</th>
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<tbody>
<tr>
<td>0175: Bad CRC1, stop POST task</td>
<td>The EEPROM checksum is not correct (block #6). Have the computer serviced.</td>
</tr>
<tr>
<td>0176: System Security - The System has been tampered with.</td>
<td>This message is displayed if you remove the Security Chip and reinstall it, or install a new one. To clear the error, enter the BIOS Setup Utility, press F9 to set values to default, then press F10 to save changes. If this does not solve the problem, have the computer serviced.</td>
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### Solving computer problems

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<tr>
<th>Message</th>
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<tbody>
<tr>
<td>0177: Bad SVP data, stop POST task. Checksum of the supervisor password in the EEPROM is not correct.</td>
<td>Checksum of the supervisor password in the EEPROM is not correct. The system board should be replaced. Have the computer serviced.</td>
</tr>
<tr>
<td>0182: Bad CRC2. Enter BIOS Setup and load Setup defaults.</td>
<td>Checksum of the CRC2 setting in the EEPROM is not correct. Press F1 to go to BIOS Setup Utility. Press F9 and then Enter to load the default setting. Press F10 and then Enter to restart the system.</td>
</tr>
<tr>
<td>0185: Bad startup sequence settings. Enter BIOS Setup and load Setup defaults.</td>
<td>Checksum of the startup sequence setting in the EEPROM is not correct. Press F1 to go to BIOS Setup Utility. Press F9 and then Enter to load the default setting. Press F10 and then Enter to restart the system.</td>
</tr>
<tr>
<td>0187: EAIA data access error</td>
<td>The access to EEPROM is failed. Have the computer serviced.</td>
</tr>
<tr>
<td>0188: Invalid RFID serialization information area.</td>
<td>The EEPROM checksum is not correct (block # 0 and 1, or block # 6). The system board should be replaced, and the box serial number needs to be reinstalled. Have the computer serviced.</td>
</tr>
<tr>
<td>0189: Invalid RFID configuration information area</td>
<td>The EEPROM checksum is not correct (block # 4 and 5). The system board should be replaced, and the UUID needs to be reinstalled. Have the computer serviced.</td>
</tr>
<tr>
<td>0190: Critical low-battery error</td>
<td>The computer turned off because the battery is low. Connect the ac adapter to the computer and charge the battery, or replace the battery with a fully charged one.</td>
</tr>
<tr>
<td>0191: System Security - Invalid remote change requested.</td>
<td>The system configuration change has failed. Confirm the operation and try again. To clear the error, enter the BIOS Setup Utility, press F9 to set values to default then press F10 to save changes.</td>
</tr>
<tr>
<td>0192: System Security - Embedded Security hardware tamper detected.</td>
<td>The Security Chip has been replaced with a different one. Have the computer serviced.</td>
</tr>
<tr>
<td>0199: System Security - Security password retry count exceeded.</td>
<td>This message is displayed if you enter a wrong supervisor password more than three times. Confirm the supervisor password and try again. To clear the error, enter the BIOS Setup Utility.</td>
</tr>
<tr>
<td>01C8: More than one modem devices are found. Remove one of them. Press &lt;Esc&gt; to continue.</td>
<td>Remove either a Modem Mini-PCI Card or a Modem Daughter Card. Otherwise, press Esc to ignore the warning message. If it does not solve this problem, have the computer serviced.</td>
</tr>
<tr>
<td>01C9: More than one Ethernet devices are found. Remove one of them. Press &lt;Esc&gt; to continue.</td>
<td>Your ThinkPad computer has a built-in Ethernet feature, and you cannot add another such feature by installing an Ethernet device. If this error message is displayed, remove the Ethernet device that you installed. Otherwise press Esc to ignore the warning message. If this does not solve the problem, have the computer serviced.</td>
</tr>
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### Solving computer problems

<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>0200: Hard disk error</td>
<td>The hard disk is not working. Make sure that the hard disk drive is attached firmly. Run the BIOS Setup Utility; then make sure the hard disk drive is not disabled in the Startup menu.</td>
</tr>
</tbody>
</table>
| 021x: Keyboard error         | Make sure that there are no objects placed on the keyboard, or if you have one, the external keyboard. Turn off the computer, and turn off all attached devices. Turn on the computer first; then turn on the attached devices. If you still see the same error code, do the following:  
• Turn off the computer and disconnect the external keyboard; then turn on the computer. Make sure that the built-in keyboard operates correctly. If it does, have the external keyboard serviced.  
• Make sure that the external keyboard is connected to the correct connector.  
Test the computer by using PC-Doctor.  
• If the computer stops during the test, have the computer serviced. |
| 0230: Shadow RAM error       | The shadow RAM failed. Test your computer’s memory with PC-Doctor. If you added a memory module just before turning the computer on, reinstall it. Then test the memory with PC-Doctor. |
| 0231: System RAM error       | The system RAM failed. Test your computer’s memory with PC-Doctor. If you added a memory module just before turning the computer on, reinstall it. Then test the memory with PC-Doctor. |
| 0232: Extended RAM error     | The extended RAM failed. Test your computer’s memory with PC-Doctor. If you have increased memory just before turning the computer on, reinstall it. Then test the memory with PC-Doctor. |
| 0250: System battery error   | The backup battery, which is used to preserve the configuration information, such as the date and time, while the computer is turned off, is depleted. Replace the battery and run BIOS Setup Utility to verify the configuration. If you still have a problem, have the computer serviced. |
| 0251: System CMOS checksum bad | The system CMOS might have been corrupted by an application program. The computer uses the default settings. Run BIOS Setup Utility to reconfigure the settings. If you still see the same error code, have the computer serviced. |
| 0260: System timer error     | Have the computer serviced. |
| 0270: Real time clock error  | Have the computer serviced. |
| 0271: Date and time error    | Neither the date nor the time is set in the computer. Set the date and time, using the BIOS Setup Utility. |
### Message | Solution
---|---
0280: Previous boot incomplete | Your computer was previously unable to complete the boot process. Turn the computer off; then turn it on to start the BIOS Setup Utility. Verify the configuration and then restart the computer either by choosing the **Exit Saving Changes** option under the **Restart** item or by pressing F10. If you still see the same error code, have the computer serviced.

02D0: System cache error | The cache is disabled. Have the computer serviced.

02F4: EISA CMOS not writable | Have the computer serviced.

02F5: DMA test failed | Have the computer serviced.

02F6: Software NMI failed | Have the computer serviced.

02F7: Fail-safe timer NMI failed | Have the computer serviced.

1802: Unauthorized network card is plugged in - Power off and remove the miniPCI network card. | The Mini-PCI network card is not supported on this computer. Remove it.

1803: Unauthorized daughter card is plugged in - Power off and remove the daughter card. | The daughter card is not supported on this computer. Remove it.
### Solving computer problems

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| **1810:** Hard disk partition layout error | A problem in recognizing the layout of the partition on the hard disk has halted computer startup. Either the Predesktop Area has been deleted, or the hard disk contains corrupt data. To try to restart your computer, complete one of the following:  
- If the Predesktop Area has been deleted  
  1. Press F1 to open the BIOS Setup Utility.  
  2. Select **Security->Predesktop Area-> Access Predesktop Area.**  
  3. Set this item to **Disabled.**  
  4. Save and exit.  
- If the above fails  
  1. Press Enter.  
  2. Double-click **RECOVER TO FACTORY CONTENTS** and follow on-screen instructions.  
  **Note:** This will permanently erase the entire contents of the hard disk, and then restore software preinstalled by Lenovo. |
| **2010:** Warning: Your internal hard disk drive (HDD) may not function correctly on this system. Ensure that your HDD is supported on this system and that the latest HDD firmware is installed. | If in the primary drive bay you are using a non-IBM / non-Lenovo hard disk drive (HDD) or an old generation IBM HDD which is not supported by this system, with the risk in mind, you can still use it by pressing ESC. If in the primary drive bay you are using a supported IBM / Lenovo HDD with an old firmware, you need to update its firmware to the latest. The latest version is available at [www.lenovo.com/think/support/](http://www.lenovo.com/think/support/) |
| The power-on password prompt | A power-on password or a supervisor password is set. Type the password and press Enter to use the computer. If the power-on password is not accepted, a supervisor password might have been set. Type the supervisor password and press Enter. If you still see the same error message, have the computer serviced. |
| The hard disk password prompt | A hard disk password is set. Type the password and press Enter to use the computer.  
If you still see the same error message, have the computer serviced. |
| Hibernation error | The system configuration changed between the time your computer entered hibernation mode and the time it left this mode, and your computer cannot resume normal operation.  
- Restore the system configuration to what it was before your computer entered hibernation mode.  
- If the memory size has been changed, re-create the hibernation file. |
Solving computer problems

<table>
<thead>
<tr>
<th>Message</th>
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</thead>
<tbody>
<tr>
<td>Operating system not found.</td>
<td>Verify the following:</td>
</tr>
<tr>
<td></td>
<td>• The hard disk drive is correctly installed.</td>
</tr>
<tr>
<td></td>
<td>• A startable diskette is in the diskette drive</td>
</tr>
<tr>
<td></td>
<td>If you still see the same error message, check the boot sequence, using the BIOS Setup Utility.</td>
</tr>
<tr>
<td>Fan error</td>
<td>The cooling fan has failed. Have the computer serviced.</td>
</tr>
<tr>
<td>EMM386 Not Installed — Unable to Set Page</td>
<td>Edit C: \CONFIG.SYS and change a line from device=C:\WINDOWS\EMM386.EXE RAM</td>
</tr>
<tr>
<td>Frame Base Address.</td>
<td>to</td>
</tr>
<tr>
<td></td>
<td>device=C:\WINDOWS\EMM386.EXE NOEMS</td>
</tr>
<tr>
<td></td>
<td>and save this file.</td>
</tr>
<tr>
<td>CardBus Configuration Error — Device Disabled</td>
<td>Go to the BIOS Setup Utility. Press F9 and then Enter to load the default setting.</td>
</tr>
<tr>
<td></td>
<td>Press F10 and then Enter to restart the system.</td>
</tr>
<tr>
<td>Thermal sensing error</td>
<td>The thermal sensor is not functioning correctly. Have the computer serviced.</td>
</tr>
<tr>
<td>Authentication of system services failed.</td>
<td>The Predesktop Area in the HDD is broken. If you need to use the Predesktop Area, get a Recovery CD, then recover the Predesktop Area using it.</td>
</tr>
<tr>
<td>Press &lt;Esc&gt; to resume.</td>
<td></td>
</tr>
</tbody>
</table>

Errors without messages

**Problem:**
When I turn on the machine, nothing appears on the screen and the machine does not beep while starting up.

**Note:** If you are not sure whether you heard any beeps, turn off the computer; then turn it on again, and listen again. If you are using an external monitor, refer to “Computer screen problems” on page 24

**Solution:**
If a power-on password is set, press any key to display the power-on password prompt, and then type the correct password and press Enter.

If the power-on password prompt does not appear, the brightness level might be set to minimum brightness. Adjust the brightness level by pressing the Fn+Home.

If the screen still remains blank, make sure that:
• The battery is installed correctly.
Solving computer problems

- The ac adapter is connected to the computer and the power cord is plugged into a working electrical outlet.
- The computer power is on. (Turn on the power switch again for confirmation.)

If these items are properly set, and the screen remains blank, have the computer serviced.

Problem:
When I turn on the machine, nothing appears on the screen, but I hear two or more beeps.

Solution:
Make sure that the memory card is installed correctly. If it is, but the screen is still blank, and you hear five beeps, have the computer serviced.

If you hear 4 cycles of 4 beeps each, the Security Chip has a problem. Have the computer serviced.

Problem:
When I turn on the machine, only a white pointer appears on a blank screen.

Solution:
Reinstall your operating system, and turn on the computer. If you still see only the pointer on the screen, have the computer serviced.

Problem:
My screen goes blank while the computer is on.

Solution
Your screen saver or power management may be enabled. Move the TrackPoint or press a key to exit the screen saver, or press the power switch to resume from standby or hibernation.

Problem:
The DOS full-screen looks smaller.

Solution:
If you use a DOS application that supports only 640×480 resolution (VGA mode), the screen image might look slightly distorted or appear smaller than the display size. This is to maintain compatibility with other DOS applications. To expand the screen image to the same size as the actual screen, start the ThinkPad Configuration Program and click **LCD**; then enable the **Screen expansion** function. (The image might still look slightly distorted.)

Note: If your computer has a screen expansion function, you can use the Fn+F8 keys to expand the screen image.
A password problem

Problem: I forgot my password.

Solution: If you forgot your power-on password, you must take your computer to a Lenovo authorized servicer or marketing representative to have the password canceled.

If you forgot your hard disk password, Lenovo authorized servicer will not reset your password or recover data from the hard disk. You must take your computer to a Lenovo authorized servicer or a marketing representative to have the hard disk drive replaced. Proof of purchase is required, and a fee will be charged for parts and service.

If you forgot your supervisor password, Lenovo will not reset your password. You must take your computer to a Lenovo authorized servicer or a marketing representative to have the system board replaced. Proof of purchase is required, and a fee will be charged for parts and service.

A power switch problem

Problem: The system does not respond, and you cannot turn off the computer.

Solution: Turn off the computer by pressing and holding the power switch for 4 seconds or more. If the computer is still not reset, remove the ac adapter and the battery.

Keyboard problems

Problem: All or some of the keys on the keyboard do not work.

Solution: If an external PS/2 keyboard is connected, the numeric keypad on your computer does not work. Use the numeric keypad on the external keyboard.

If an external numeric keypad or a mouse is connected:
1. Turn off the computer.
2. Remove the external numeric keypad or the mouse.
3. Turn on the computer and try using the keyboard again.

If the keyboard problem is resolved, carefully reconnect the external numeric keypad, external keyboard, or mouse, making sure that you have seated the connectors properly.

If keys on the keyboard still do not work, have the computer serviced.
**Solving computer problems**

**Problem:**
A number appears when you type a letter.

**Solution**
The numeric lock function is on. To disable it, press and hold Shift; then press NumLk.

**Problem:**
All or some of the keys on the external numeric keypad do not work.

**Solution:**
Make sure that the external numeric keypad is correctly connected to the computer.

**Problem:**
All or some keys on the external PS/2 keyboard do not work.

**Solution:**
If you are using the X4 Dock, connect the keyboard connector to the keyboard/mouse connector on the X4 Dock. If you use a mouse and an external keyboard simultaneously, you need the keyboard/mouse connector. Make sure that keyboard/mouse connector is correctly connected to the mouse connector of the X4 Dock, and that the keyboard cable is correctly connected to the keyboard connector of the keyboard/mouse connector.

If the connection is correct, disconnect the cable and make sure that the built-in keyboard operates properly. If the built-in keyboard works, there is a problem with the external keyboard. Try using a different external keyboard.

**TrackPoint problems**

**Problem:**
The pointer drifts when the computer is turned on or after it resumes normal operation.

**Solution:**
The pointer might drift when you are not using the TrackPoint during normal operation. This is a normal characteristic of the TrackPoint and is not a defect. The pointer drifts for several seconds under the following conditions:
• When the computer is turned on.
• When the computer resumes normal operation.
• When the TrackPoint is pressed for a long time.
• When the temperature changes.

**Problem:**
The mouse or the pointing device does not work.
Solution:
Make sure that the TrackPoint is set to Automatic in the ThinkPad Configuration Program. Then detach the mouse or the pointing device, and try using the TrackPoint. If the TrackPoint works, the error might be due to the mouse or the pointing device.

Make sure that the cable for the mouse or the pointing device is securely connected to the X4 Dock.

If your mouse is incompatible with the PS/2 mouse, disable the TrackPoint, using the ThinkPad Configuration Program.

Note: For more information, see the manual supplied with the mouse.

Problem
The mouse buttons do not work.

Solution
Change the mouse driver to Standard PS/2® Port Mouse, and then reinstall PS/2 TrackPoint. Drivers are provided in the C:\IBMTOOLS\DRIVERS directory on your hard disk drive. If your hard disk drive does not contain device drivers, refer to the ThinkPad Web site. To access this Web site, press the Access IBM button and open ThinkVantage Productivity Center.

Problem
The scrolling or magnifying glass function does not work.

Solution
Check the mouse driver in the Device Manager window, and make sure that the PS/2 TrackPoint driver is installed.

Standby and hibernation problems

Problem:
The computer enters standby mode unexpectedly.

Solution:
If the processor overheats, the computer automatically enters standby mode to allow the computer to cool and to protect the processor and other internal components. Also, check the settings for standby mode, using Power Manager.

Problem:
The computer enters standby mode immediately after Power-on self-test (POST) (the standby indicator light turns on).

Solution:
Make sure that:
• The battery is charged.
Solving computer problems

- The operating temperature is within the acceptable range. Refer to “Specifications” on page 5.

If these items are correct, have the computer serviced.

Problem:
The critical low-battery error message is displayed, and the computer immediately turns off.

Solution:
The battery power is getting low. Connect the ac adapter to the computer, or replace the battery with a fully charged one.

Problem:
When you take action to return from standby mode, the computer display remains blank.

Solution:
Check whether an external monitor was disconnected while the computer was in standby mode. Do not disconnect the external monitor while the computer is in standby mode or hibernation mode. If no external monitor is attached when the computer resumes, the computer display remains blank and output is not displayed. This restriction does not depend on the resolution value. Press Fn+F7 to bring up the computer display.

Note: If you use the Fn+F7 key combination to apply a presentation scheme, press Fn+F7 at least three times in three seconds, and the image is displayed on the computer screen.

Problem:
The computer does not return from standby mode, or the standby indicator stays on and the computer does not work.

Solution:
If the system does not return from standby mode, it may have entered standby or hibernation mode automatically because the battery is depleted. Check the standby indicator.
- If the standby indicator is on, your computer is in standby mode. Connect the ac adapter to the computer; then press Fn.
- If the standby indicator is off, your computer is in hibernation mode or power-off state. Connect the ac adapter to the computer; then press power button to resume operation.

If the system still does not return from standby mode, your system may stop responding and you cannot turn off the computer. In this case, you need to reset the computer. If you have not saved your data, it may be lost. To reset the computer, press and hold the power button for 4 seconds or more. If the system is still not reset, remove the ac adapter and the battery.
Problem:
Your computer does not enter standby or hibernation mode.

Solution:
Check whether any option has been selected that would disable your computer from entering standby or hibernation mode.

Problem:
The system does not wake up at the time set on the timer, if the computer is not connected to an ac power source,

~or~

The system does not enter hibernation mode from suspend mode if the computer is not connected to an ac power source.

Solution:
The timer-wake-with-battery-operation is disabled by default. If you enable this function, the computer could wake up and begin running while it is being carried; this could lead to damage to the hard disk drive.

With this risk in mind, you can enable the timer-wake-with-battery-operation.

1. Turn your computer off and then on again; then, while the message, “To interrupt normal startup, press the blue Access IBM button” is displayed at the lower left of the screen, press the Access IBM button. Rescue and Recovery screen opens.
2. Click Access BIOS. The System Restart Required window is displayed.
3. Click Yes. The computer restarts, and the BIOS Setup Utility menu appears.
4. With the cursor key, select Config; then press Enter. The Power submenu is displayed.
5. Select Timer Wake with Battery Operation by pressing Enter.
6. With the F5 or F6 key, select Enabled; then press Enter.
7. Press F10 and Enter to save this setting and exit this utility.

For information about the BIOS Setup Utility, see “BIOS Setup Utility” in Access IBM, your on-board help system.

Problem:
The Fn+F12 key combination does not cause the computer to enter hibernation mode.

Solution:
The computer cannot enter hibernation mode:
Solving computer problems

- If you are using one of the communication PC Cards. To enter hibernation mode, stop the communication program, and then remove the PC Card or disable the PC Card slot. Click the Safely Remove Hardware icon in the taskbar.
- If the hibernation mode is not enabled. To enable it, do as follows:
  1. Start the ThinkPad Configuration Program.
  2. Click Power Management.
  3. Click the Hibernate tab.
  4. Select the hibernate support checkbox.
  5. Click OK.

Note: You can enter hibernation mode by pressing Fn+F12 only if the PM driver has been installed on your computer.

Computer screen problems

Problem:
The screen is blank.

Solution:
- Press Fn+F7 to bring up the image.

  Note: If you use the Fn+F7 key combination to apply a presentation scheme, press Fn+F7 at least three times in three seconds, and the image is displayed on the computer screen.
- If you are using the AC adapter, or using the battery, and the battery status indicator is on (is green), press Fn+Home to make the screen brighter.
- If the standby status indicator is on (is green), press Fn to resume from the standby mode.
- If you still have the problem persists, do the Solution in the problem below.

Problem:
The screen is unreadable or distorted.

Solution:
Make sure that:
- The display device driver is installed correctly.
- The screen resolution and color quality are correctly set.
- The monitor type is correct.

To check these settings, do as follows:
  1. Right-click on the desktop, click Properties, then click the Settings tab.
  2. Check whether the screen resolution and color quality are correctly set.
  3. Click Advanced.
  4. Click the Adapter tab.
5. Make sure "Mobile Intel(R) 915GM/GMS,910GML Express Chipset Family" is shown in the adapter information window.

6. Click the Properties button. Check the "Device status" box and make sure the device is working properly. If not, click the Troubleshooter button.

7. Click the Monitor tab.
8. Make sure the information is correct.
9. Click the Properties button. Check the "Device status" box and make sure the device is working properly. If not, click the Troubleshooter button.

**Problem:**
The screen stays on even after you turn off your computer.

**Solution:**
Press and hold the power switch for 4 seconds or more to turn off your computer; then turn it on again.

**Problem:**
Missing, discolored, or bright dots appear on the screen every time you turn on your computer.

**Solution:**
This is an intrinsic characteristic of the TFT technology. Your computer's display contains multiple thin-film transistors (TFTs). A small number of missing, discolored, or bright dots on the screen might exist all the time.

**Battery problems**

**Problem:**
The battery cannot be fully charged by the power-off method in the standard charge time for your computer.

**Solution:**
The battery might be over-discharged. Do the following:
1. Turn off the computer.
2. Make sure that the over-discharged battery is in the computer.
3. Connect the ac adapter to the computer and let it charge.

If the battery cannot be fully charged in 24 hours, use a new battery.

If the optional Quick Charger is available, use it to charge the over-discharged battery.

**Problem:**
Your computer shuts down before the battery status indicator shows empty, -or- Your computer operates after the battery status indicator shows empty.

**Solution:**
Discharge and recharge the battery.
Solving computer problems

Problem: The operating time for a fully charged battery is short.
Solution: Discharge and recharge the battery. If your battery’s operating time is still short, use a new battery.

Problem: The computer does not operate with a fully charged battery.
Solution: The surge protector in the battery might be active. Turn off the computer for one minute to reset the protector; then turn on the computer again.

Problem: The battery does not charge.
Solution: You cannot charge the battery when it is too hot. If the battery feels hot, remove it from the computer and allow it to cool to room temperature. After it cools, reinstall it and recharge the battery. If it still cannot be charged, have it serviced.

Hard disk drive problems

Problem: The hard disk drive makes a rattling noise intermittently.
Solution: The rattling noise might be heard when:
• The hard disk drive starts accessing the data or when it stops.
• You are carrying the hard disk drive.
• You are carrying your computer.

This is a normal characteristic of a hard disk drive and is not a defect.

Problem: The hard disk drive does not work.
Solution: In the startup menu in BIOS Setup Utility, make sure that the hard disk drive is in the "Boot priority order". If it is in the device list of "Excluded from boot order", the hard disk drive is disabled. Move it into the "Boot priority order".

A startup problem

Problem: The Microsoft® Windows® operating system will not start.
Solution: Use the Rescue and Recovery workspace to help solve or identify your problem. Starting the Rescue and Recovery workspace is easy.
Solving computer problems

To open Rescue and Recovery, do the following:
1. Turn off your PC, then turn it on again.
2. Watch the screen carefully while your PC starts. When “To interrupt normal startup, press the blue Access IBM button” message is displayed at the lower left of the screen, press the blue Access IBM button. The Rescue and Recovery workspace opens. A window such as this will appear:

3. After the Rescue and Recovery workspace opens, you can do the following:
   - **Rescue and Restore** your files, folders, or backups.
   - **Configure** your system settings and passwords.
   - **Communicate** by using the internet and link to the ThinkPad support site.
   - **Troubleshoot** and diagnose problems using diagnostics.

In the top panel of the Rescue and Recovery workspace, you can click the following to open other pages or exit the utility:

**Events Viewer** provides general information about application, security, and system events. It also provides error and warning information for each event.

**System Information** enables you to see key hardware and software information about your computer. This information might be valuable when trying to diagnose problems.
Solving computer problems

**Warranty Status** enables you to see when your warranty expires, the terms of service for your computer, or a list of replacement parts.

**Help** provides information about the various pages in the Rescue and Recovery workspace.

**Restart** closes the Rescue and Recovery workspace, and resumes the startup sequence that was interrupted.

**Fingerprint authentication problems**

If your finger(s) have any of the following conditions, you may not be able to register or authenticate it:

- Your finger is wrinkled.
- Your finger is rough, dry or injured.
- Your finger is very dry.
- Your finger is stained with dirt, mud, or oil.
- The surface of your finger is very different from when you registered your fingerprint.
- Your finger is wet.
- A finger is used that has not been enrolled.

To improve the situation, try the following:

- Clean or wipe your hands to remove any excess dirt or moisture from the fingers.
- Enroll and use a different finger for authentication.
- If your hands are too dry, apply lotion to them.

**Other problems**

**Problem:**
The computer locks or does not accept any input.

**Solution:**
Your computer might lock when it enters standby mode during a communication operation. Disable the standby timer when you are working on the network.

To turn off the computer, press and hold the power switch for 4 seconds or more.

**Problem:**
The computer does not start from a device you want.

**Solution:**
Refer to the Startup menu of the BIOS Setup Utility. Make sure that the startup sequence in the BIOS Setup Utility is set so that the computer starts from the device you want.
Also make sure that the device from which the computer starts is enabled. In the startup menu in the BIOS Setup Utility, make sure that the device is included in the "Boot priority order" list. If it is included in the "Excluded from boot order" list, it is disabled. Select the entry for it in the list and press the x key. This moves the entry to the "Boot priority order" list.

Problem:
The computer does not respond.

Solution:
IRQs for the PCI are all set as 11. The computer does not respond because it cannot share the IRQ with other devices. Refer to the ThinkPad Configuration Program.

Problem:
The computer cannot connect to the local network, shared devices or network printers, but can connect to the Internet.

Solution:
On your desktop, click the Symantec Client Security icon, then click the Symantec Home and Office Networking Wizard icon and follow the instructions.

Problem:
The computer can not play a CD, or the sound quality is not good.

Solution:
Be sure that the disk meets the standards for your country. Usually, a disk that meets the local standards is marked with a CD logo on the label. If you use a disc that does not meet these standards, we cannot guarantee that it will play, or that, if it does play, the sound quality will be good.

Problem:
An application does not run correctly.

Solution:
Make sure that the problem is not being caused by the application.
Check that your computer has the minimum required memory to run the application.
Refer to the manuals supplied with the application. Check the following:
• The application is designed to operate with your operating system.
• Other applications run correctly on your computer.
• The necessary device drivers are installed.
• The application works when it is run on some other computer.
Solving computer problems

If an error message appears while you are using the application program, refer to the manuals supplied with the application.

On some models, the following application programs may not run correctly. Download the latest version from the Web site listed below:

- ThinkPad 2.5 inch Hard Disk Drive Firmware Update Utility (version released before January 24, 2005): The latest version is available at http://www.lenovo.com/think/support/
- Drive Fitness Test (v3.99 or earlier): The latest version is available at http://www.hitachigst.com/hdd/support/download.htm

Notes:
1. Lenovo does not guarantee the proper operation of the Drive Fitness Test.
2. To use an additional hard disk drive, update the firmware to the latest version.

If the application still does not run correctly, contact your place of purchase or a service representative for help.

Starting BIOS Setup Utility

Your computer provides a program, called BIOS Setup Utility, that enables you to select various setup parameters.

- Config: Set the configuration of your computer.
- Date/Time: Set the date and time.
- Security: Set security features.
- Startup: Set the startup device.
- Restart: Restart the system.

Note: You can set many of these parameters more easily by using the ThinkPad Configuration Program.

To start BIOS Setup Utility, do as follows:

1. To protect yourself against accidental loss of data, back up your data and computer registry. For details see “Data backup-and-restore tools” in your on-board help.
2. Remove any diskette from the diskette drive, and then turn off the computer.
3. Turn on the computer; then, while the “To interrupt normal startup, press the blue Access IBM button” message is displayed at the lower-left of the screen, press the Access IBM button. The Rescue and Recovery workspace opens.
4. Click Access BIOS. The System Restart Required window is displayed.
Solving computer problems

5. Click Yes. The computer restarts, and BIOS Setup Utility screen appears. If you have set a supervisor password, the BIOS Setup Utility menu appears after you enter the password. You can start the utility by pressing Enter instead of entering the supervisor password; however, you cannot change the parameters that are protected by the supervisor password. For more information, refer to the on-board help.

6. Using the cursor keys, move to an item you want to change. When the item you want is highlighted, press Enter. A submenu is displayed.

7. Change the items you wish to change. To change the value of an item, use the F5 or F6 key. If the item has a submenu, you can display it by pressing Enter.

8. Press F3 or Esc to exit from the submenu. If you are in a nested submenu, press Esc repeatedly until you reach the BIOS Setup Utility menu.

Note: If you need to restore the settings to their original state as of the time of purchase, press F9 key to load the default settings. You can also select an option in the Restart submenu to load the default settings or discard the changes.

9. Select Restart; then press Enter. Move the cursor to the option you want for restarting your computer; then press Enter. Your computer restarts.

Recovering pre-installed software

Your computer hard disk has a hidden, protected area for backups. Contained within this area is a complete backup of the hard disk as it was shipped from the factory and a program called the Rescue and Recovery.

If you performed a backup operation using the Rescue and Recovery program, you also have one or more backups stored that reflect the contents of the hard disk, as it existed at various points in time. These backups might be stored on your hard disk, or a network drive, or on removable media, depending on the options you selected during the backup operation.

You can use either the Rescue and Recovery program or the Rescue and Recovery workspace to restore the contents of the hard disk to an earlier state using any of the stored backups. The Rescue and Recovery workspace runs independently of the Windows operating system. Therefore, you can start it by pressing the blue Access IBM button when prompted during startup.

After the Rescue and Recovery workspace opens you can perform a recovery operation, even if you are unable to start Windows. For more information about using Rescue and Recovery features, see “Data backup-and-restore tools” or “Introducing Rescue and Recovery” in your on-board help.

To recover the hard disk to its original contents, do the following:
**Solving computer problems**

**Notes:**

1. If the optical drive is not attached to your ThinkPad computer during recovery, DVD software and CD-recording software will not be installed. To ensure that they will be installed correctly, attach your ThinkPad computer to the X4 Dock and install the optical drive in the Ultrabay Slim before performing a recovery operation.
2. The recovery process might take up to 2 hours.

**Attention:** All of the files on the primary hard disk partition (usually drive C) will be lost in the recovery process. However, before any data is overwritten, you will be given the opportunity to save one or more files to other media.

1. If possible, save all your files and shut down your operating system.
2. Turn off your computer for at least 5 seconds.
3. Turn on your computer. Watch the display carefully. While the message, “To interrupt normal startup, press the blue Access IBM button” is displayed at the lower left of the screen, press the Access IBM button. The Rescue and Recovery workspace opens.
4. Click **Restore your system**.
5. Click **Restore my hard drive to the original factory state** and then click **Next**.
6. Follow the instructions on the screen.
7. When the recovery process finishes, press Enter key. Your computer will restart with the pre-installed operating system, drivers, and software.

**Upgrading the hard disk drive**

You can increase the storage capacity of your computer by replacing the hard disk drive with one of greater capacity. You can purchase a new hard disk drive from your reseller or Lenovo marketing representative.

**Notes:**

1. Replace the hard disk drive only if you upgrade it or have it repaired. The connectors and bay of the hard disk drive were not designed for frequent changes, or drive swapping.
2. The Rescue and Recovery workspace and the Product Recovery program are not included in the optional hard disk drive.
Attention

Handling a hard disk drive
- Do not drop the drive or subject it to physical shocks. Put the drive on a material, such as soft cloth, that absorbs the physical shock.
- Do not apply pressure to the cover of the drive.
- Do not touch the connector.

The drive is very sensitive. Incorrect handling can cause damage and permanent loss of data on the hard disk. Before removing the hard disk drive, make a backup copy of all the information on the hard disk, and then turn the computer off. Never remove the drive while the system is operating, in standby mode, or in hibernation mode.

To replace the hard disk drive, do the following.
1. **Turn off the computer**; then disconnect the ac adapter and all cables from the computer.
2. Close the computer display, and turn the computer over.
3. Remove the battery.
4. Remove the Tablet Digitizer Pen from its slot.
5. Remove the screw that secures the hard disk drive.
Upgrading the hard disk drive

6. Open the computer display; then stand the computer on its side and remove the hard disk drive by pulling the cover away from the computer.

7. Detach the cover from the hard disk drive.

8. Attach the cover to a new hard disk drive.
9. Insert the hard disk drive and its cover into the hard disk drive bay; then firmly install them.

10. Close the computer display and turn the computer over so that its bottom side is up.
11. Reinstall the screw.
12. Store the pen back in its slot.
13. Reinstall the battery.
14. Turn the computer over again. Connect the ac adapter and the cables to the computer.
Recovering data

1. **Turn off the computer, or enter hibernation mode.** Then disconnect the ac adapter and all cables from the computer.

   **Note:** If you are using a PC Card or Secure Digital Card, the computer might not be able to enter hibernation mode. If this happens, turn off the computer.

2. Close the computer display, and turn the computer over.
3. Slide the battery lock to the unlock position.

4. Slide and hold the battery latch 1; then remove the battery 2.
Replacing the battery

5. Align the front of a fully charged spare battery with the front side of the battery space in the computer; then gently push the battery into the space.

6. Slide the battery lock to the lock position.

7. Turn the computer over again. Connect the ac adapter and the cables to the computer.

Using the Extended Life Battery

You can attach a ThinkPad X40 Series Extended Life Battery to the docking connector of your computer.

To attach an Extended Life Battery to the computer, do the following:
1. Check the state of the main battery. If it is not attached, or if it is attached and is almost discharged, turn off your computer, or enter hibernation mode. If the main battery is attached and has enough power, enter standby mode.
2. Disconnect the ac adapter and all cables from the computer.
3. Close the computer display, and turn the computer over.
4. Attach the snap-on bracket to the Extended Life Battery as shown in the drawing below.

5. Align the guides of the Extended Life Battery with the holes of the computer.

6. Gently push the battery into place until you hear a click. The battery is attached to the docking connector of the computer.
Using the Extended Life Battery

7. Slide the latch as the arrow shows.

8. Turn the computer over again. Connect the ac adapter and the cables to the computer.

To remove the battery from the computer, do the following:

1. Check the state of the main battery. If it is not attached, or if it is attached and is almost discharged, turn off your computer, or enter hibernation mode. If the main battery is attached and has enough power, enter standby mode.

   **Note:** If the main battery is attached, but is almost discharged when you remove the Extended Life Battery from the computer in standby mode, your computer may shut down.

2. Disconnect the ac adapter and all cables from the computer.
3. Close the computer display, and turn the computer over.
4. Slide the latch as shown.
5. Push the eject latch of the battery \textbf{1} until the battery lifts up; then remove it \textbf{2}.
Using the Extended Life Battery
Chapter 3. Getting help and service

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Getting help and service

If you need help, service, technical assistance, or just want more information about ThinkPad computers, you will find a wide variety of sources available from Lenovo to assist you. This section contains information about where to go for additional information about ThinkPad computers, what to do if you experience a problem with your computer, and whom to call for service should it be necessary.

Microsoft Service Packs are the latest software source for Windows product updates. They are available via Web download (connection charges may apply) or via CD-ROM. For more specific information and links, go to www.microsoft.com.

For technical assistance with installation of, or questions related to, Service Packs for your preloaded Microsoft Windows product, refer to the Microsoft Product Support Services Web site at http://support.microsoft.com/directory/, or you can contact Customer Support Center at the phone number(s) listed in “Worldwide telephone list” on page 67. Some fees might apply.

Getting help on the Web

The Lenovo Web site on the World Wide Web has up-to-date information about ThinkPad computers and support. The address for the Personal Computing home page is www.lenovo.com/think/

You can find support information for your ThinkPad computer at www.lenovo.com/think/support/. Research this Web site to learn how to solve problems, find new ways to use your computer, and learn about options that can make working with your ThinkPad computer even easier.

Calling the Customer Support Center

If you have tried to correct the problem yourself and still need help, during the warranty period, you can get help and information by telephone through the Customer Support Center. The following services are available during the warranty period:

• Problem determination - Trained personnel are available to assist you with determining if you have a hardware problem and deciding what action is necessary to fix the problem.

• Lenovo hardware repair - If the problem is determined to be caused by Lenovo hardware under warranty, trained service personnel are available to provide the applicable level of service.

• Engineering change management - Occasionally, there might be changes that are required after a product has been sold. Lenovo or your reseller, if authorized by Lenovo, will make selected Engineering Changes (ECs) available that apply to your hardware.
The following items are not covered:
• Replacement or use of parts not manufactured for or by Lenovo or nonwarranted parts

Note: All warranted parts contain a 7-character identification in the format FRU XXXXXX
• Identification of software problem sources
• Configuration of BIOS as part of an installation or upgrade
• Changes, modifications, or upgrades to device drivers
• Installation and maintenance of network operating systems (NOS)
• Installation and maintenance of application programs

To determine if your machine is in warranty and when the warranty expires, go to www.lenovo.com/think/support/, and click Warranty, then follow the instructions on the screen.

Refer to your Lenovo hardware warranty for a full explanation of Lenovo warranty terms. Be sure to retain your proof of purchase to obtain warranty service.

If possible, be near your computer when you make your call in case the technical assistance representative needs to help you resolve a computer problem. Please ensure that you have downloaded the most current drivers and system updates, run diagnostics, and recorded information before you call. When calling for technical assistance, please have the following information available:
• Machine Type and Model
• Serial numbers of your computer, monitor, and other components, or your proof of purchase
• Description of the problem
• Exact wording of any error messages
• Hardware and software configuration information for your system

The telephone numbers for your Customer Support Center location are located in the Worldwide telephone list section of this guide.

Note: Telephone numbers are subject to change without notice. For the latest list of Customer Support Center telephone numbers and hours of operation, visit the Support Web site at www.lenovo.com/think/support/. If the number for your country or region is not listed, contact your Lenovo reseller or Lenovo marketing representative.
Getting help and service

Getting help around the world

If you travel with your computer or relocate it to a country where your ThinkPad machine type is sold, your computer might be eligible for International Warranty Service, which automatically entitles you to obtain warranty service throughout the warranty period. Service will be performed by service providers authorized to perform warranty service.

Service methods and procedures vary by country, and some services might not be available in all countries. International Warranty Service is delivered through the method of service (such as depot, carry-in, or on-site service) that is provided in the servicing country. Service centers in certain countries might not be able to service all models of a particular machine type. In some countries, fees and restrictions might apply at the time of service.

To determine whether your computer is eligible for International Warranty Service and to view a list of the countries where service is available, go to www.lenovo.com/think/support/, click Warranty, and follow the instructions on the screen.
Appendix A. Wireless related information

Wireless interoperability

Wireless LAN Mini-PCI Adapter is designed to be interoperable with any wireless LAN product that is based on Direct Sequence Spread Spectrum (DSSS) and/or Orthogonal Frequency Division Multiplexing (OFDM) radio technology, and is compliant to:

- The IEEE 802.11a/b/g Standard on Wireless LANs, as defined and approved by the Institute of Electrical and Electronics Engineers.
- The Wireless Fidelity (WiFi) certification as defined by the WECA (Wireless Ethernet Compatibility Alliance).

_Bluetooth_ Daughter Card is designed to be interoperable with any _Bluetooth_ product that is compliant to _Bluetooth_ Specification 1.1 and 1.2 as defined by the _Bluetooth_ SIG. Following profiles are supported by _Bluetooth_ Daughter Card:

- Generic Access
- Service Discovery
- Serial Port
- Dial-up Networking
- FAX
- LAN Access using PPP
- Personal Area Network
- Generic Object Exchange
- Generic Object Push
- File Transfer
- Synchronization
- Audio Gateway
- Headset
- Printer
- Human Interface Devices (Keyboard/Mouse)
- Basic Image
- Handsfree
- AV Profile

Usage environment and your health

Wireless LAN Mini-PCI Adapter and _Bluetooth_ Daughter Card emits radio frequency electromagnetic energy like other radio devices. However, the level of energy emitted is far much less than the electromagnetic energy emitted by wireless devices like for example mobile phones.
Because Wireless LAN Mini-PCI Adapter and Bluetooth Daughter Card operates within the guidelines found in radio frequency safety standards and recommendations, Lenovo believes the integrated wireless cards are safe for use by consumers. These standards and recommendations reflect the consensus of the scientific community and result from deliberations of panels and committees of scientists who continually review and interpret the extensive research literature.

In some situation or environment, the use of Wireless LAN Mini-PCI Adapter or Bluetooth Daughter Card may be restricted by the proprietor of the building or responsible representatives of the organization. These situations may for example include:

- Using the integrated wireless cards on board of airplanes, or in hospitals
- In any other environment where the risk of interference to other devices or services is perceived or identified as harmful.

If you are uncertain of the policy that applies on the use of wireless devices in a specific organization (e.g. airport or hospital), you are encouraged to ask for authorization to use Wireless LAN Mini-PCI Adapter or Bluetooth Daughter Card prior to turning on the ThinkPad computer.
Appendix B. Warranty information

Lenovo Statement of Limited Warranty

LSOLW-00 05/2005

Part 1 - General Terms

This Statement of Limited Warranty includes Part 1 - General Terms, Part 2 - Country-unique Terms, and Part 3 - Warranty Information. The terms of Part 2 replace or modify those of Part 1. The warranties provided by Lenovo Group Limited or one of its subsidiaries (called "Lenovo") in this Statement of Limited Warranty apply only to Machines you purchase for your use, and not for resale. The term “Machine” means a Lenovo machine, its options, features, conversions, upgrades or peripheral products, or any combination of them. The term “Machine” does not include any software programs, whether pre-loaded with the Machine, installed subsequently or otherwise. Nothing in this Statement of Limited Warranty affects any statutory rights of consumers that cannot be waived or limited by contract.

What this Warranty Covers

Lenovo warrants that each Machine 1) is free from defects in materials and workmanship and 2) conforms to Lenovo’s Official Published Specifications (“Specifications”) which are available on request. The warranty period for the Machine starts on the original date of installation and is specified in Part 3 - Warranty Information. The date on your invoice or sales receipt is the date of installation unless Lenovo or your reseller informs you otherwise. Unless Lenovo specifies otherwise, these warranties apply only in the country or region in which you purchased the Machine.

THESE WARRANTIES ARE YOUR EXCLUSIVE WARRANTIES AND REPLACE ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. SOME STATES OR JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF EXPRESS OR IMPLIED WARRANTIES, SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU. IN THAT EVENT, SUCH WARRANTIES ARE LIMITED IN DURATION TO THE WARRANTY PERIOD. NO WARRANTIES APPLY AFTER THAT PERIOD. SOME STATES OR JURISDICTIONS DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.
What this Warranty Does not Cover
This warranty does not cover the following:
• any software programs, whether pre-loaded or shipped with the Machine, or installed subsequently;
• failure resulting from misuse, accident, modification, unsuitable physical or operating environment, or improper maintenance by you;
• failure caused by a product for which Lenovo is not responsible; and
• any non-Lenovo products, including those that Lenovo may procure and provide with or integrate into a Lenovo Machine at your request.

The warranty is voided by removal or alteration of identification labels on the Machine or its parts.

Lenovo does not warrant uninterrupted or error-free operation of a Machine.

Any technical or other support provided for a Machine under warranty, such as assistance with "how-to" questions and those regarding Machine set-up and installation, is provided WITHOUT WARRANTIES OF ANY KIND.

How to Obtain Warranty Service
Warranty service may be provided by Lenovo, IBM, your reseller if authorized to perform warranty service, or an authorized warranty service provider. Each of them is referred to as a “Service Provider.”

If the Machine does not function as warranted during the warranty period, contact a Service Provider. If you do not register the Machine with Lenovo, you may be required to present proof of purchase as evidence of your entitlement to warranty service.

What Lenovo Will Do to Correct Problems
When you contact a Service Provider for service, you must follow the problem determination and resolution procedures that we specify. An initial diagnosis of your problem can be made either by a technician over the telephone or electronically by access to a support website.

The type of warranty service applicable to your Machine is specified in Part 3 - Warranty Information.

You are responsible for downloading and installing designated software updates from a support web site or from other electronic media, and following the instructions that your Service Provider provides. Software updates may include basic input/output system code (called “BIOS”), utility programs, device drivers, and other software updates.
If your problem can be resolved with a Customer Replaceable Unit (“CRU”) (e.g., keyboard, mouse, speaker, memory, hard disk drive), your Service Provider will ship the CRU to you for you to install.

If the Machine does not function as warranted during the warranty period and your problem cannot be resolved over the telephone or electronically, through your application of software updates, or with a CRU, your Service Provider, will either, at its discretion, 1) repair it to make it function as warranted, or 2) replace it with one that is at least functionally equivalent. If your Service Provider is unable to do either, you may return the Machine to your place of purchase and your money will be refunded.

As part of the warranty service, your Service Provider may also install selected engineering changes that apply to the Machine.

**Exchange of a Machine or Part**
When the warranty service involves the exchange of a Machine or part, the item your Service Provider replaces becomes Lenovo’s property and the replacement becomes yours. You represent that all removed items are genuine and unaltered. The replacement may not be new, but will be in good working order and at least functionally equivalent to the item replaced. The replacement assumes the warranty service status of the replaced item.

**Your Additional Responsibilities**
Before your Service Provider exchanges a Machine or part, you agree to remove all features, parts, options, alterations, and attachments not under warranty service.

You also agree to:
1. ensure that the Machine is free of any legal obligations or restrictions that prevent its exchange;
2. obtain authorization from the owner to have your Service Provider service a Machine that you do not own; and
3. where applicable, before service is provided:
   a. follow the service request procedures that your Service Provider provides;
   b. backup or secure all programs, data, and funds contained in the Machine; and
   c. provide your Service Provider with sufficient, free, and safe access to your facilities to permit Lenovo to fulfill its obligations.
4. (a) ensure all information about identified or identifiable individuals (Personal Data) is deleted from the Machine (to the extent technically possible), (b) allow your Service Provider or a supplier to process on your behalf any remaining Personal Data as your Service Provider considers necessary to fulfill its obligations under this Statement of Limited Warranty (which may include shipping the Machine for such processing to
other service locations around the world), and (c) ensure that such processing complies with any laws applicable to such Personal Data.

Limitation of Liability
Lenovo is responsible for loss of, or damage to, your Machine only while it is 1) in your Service Provider’s possession or 2) in transit in those cases where Lenovo is responsible for the transportation charges.

Neither Lenovo nor your Service Provider are responsible for any of your confidential, proprietary or personal information contained in a Machine which you return for any reason. You should remove all such information from the Machine prior to its return.

Circumstances may arise where, because of a default on Lenovo’s part or other liability, you are entitled to recover damages from Lenovo. In each such instance, regardless of the basis on which you are entitled to claim damages from Lenovo (including fundamental breach, negligence, misrepresentation, or other contract or tort claim), except for any liability that cannot be waived or limited by applicable laws, Lenovo is liable for no more than
1. damages for bodily injury (including death) and damage to real property and tangible personal property for which Lenovo is legally liable; and
2. the amount of any other actual direct damages, up to the charges for the Machine that is subject of the claim.

This limit also applies to Lenovo’s suppliers, resellers and your Service Provider. It is the maximum for which Lenovo, its suppliers, resellers, and your Service Provider are collectively responsible.

UNDER NO CIRCUMSTANCES IS LENOVO, ITS SUPPLIERS, RESELLERS OR SERVICE PROVIDERS LIABLE FOR ANY OF THE FOLLOWING EVEN IF INFORMED OF THEIR POSSIBILITY: 1) THIRD PARTY CLAIMS AGAINST YOU FOR DAMAGES (OTHER THAN THOSE UNDER THE FIRST ITEM LISTED ABOVE); 2) LOSS OF, OR DAMAGE TO, DATA; 3) SPECIAL, INCIDENTAL, OR INDIRECT DAMAGES OR FOR ANY ECONOMIC CONSEQUENTIAL DAMAGES; OR 4) LOST PROFITS, BUSINESS REVENUE, GOODWILL OR ANTICIPATED SAVINGS. SOME STATES OR JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

Governing Law
Both you and Lenovo consent to the application of the laws of the country in which you acquired the Machine to govern, interpret, and enforce all of your
and Lenovo’s rights, duties, and obligations arising from, or relating in any manner to, the subject matter of this Statement of Limited Warranty, without regard to conflict of law principles.

**THESE WARRANTIES GIVE YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE OR JURISDICTION TO JURISDICTION.**

**Jurisdiction**
All of our rights, duties, and obligations are subject to the courts of the country in which you acquired the Machine.

**Part 2 - Country-unique Terms**

**AMERICAS**

**ARGENTINA**
**Jurisdiction:** The following is added after the first sentence:
Any litigation arising from this Statement of Limited Warranty will be settled exclusively by the Ordinary Commercial Court of the city of Buenos Aires.

**BOLIVIA**
**Jurisdiction:** The following is added after the first sentence:
Any litigation arising from this Statement of Limited Warranty will be settled exclusively by the courts of the city of La Paz.

**BRAZIL**
**Jurisdiction:** The following is added after the first sentence:
Any litigation arising from this Statement of Limited Warranty will be settled exclusively by the court of Rio de Janeiro, RJ.

**CHILE**
**Jurisdiction:** The following is added after the first sentence:
Any litigation arising from this Statement of Limited Warranty will be settled exclusively by the Civil Courts of Justice of Santiago.

**COLOMBIA**
**Jurisdiction:** The following is added after the first sentence:
Any litigation arising from this Statement of Limited Warranty will be settled exclusively by the Judges of the Republic of Colombia.

**ECUADOR**
**Jurisdiction:** The following is added after the first sentence:
Any litigation arising from this Statement of Limited Warranty will be settled exclusively by the Judges of Quito.
MEXICO
Jurisdiction: The following is added after the first sentence:
Any litigation arising from this Statement of Limited Warranty will be settled exclusively by the Federal Courts of Mexico City, Federal District.

PARAGUAY
Jurisdiction: The following is added after the first sentence:
Any litigation arising from this Statement of Limited Warranty will be settled exclusively by the courts of the city of Asuncion.

PERU
Jurisdiction: The following is added after the first sentence:
Any litigation arising from this Statement of Limited Warranty will be settled exclusively by the Judges and Tribunals of the Judicial District of Lima, Cercado.

Limitation of Liability: The following is added at the end of this section:
In accordance with Article 1328 of the Peruvian Civil Code the limitations and exclusions specified in this section will not apply to damages caused by Lenovo’s willful misconduct ("dolo") or gross negligence ("culpa inexcusable").

URUGUAY
Jurisdiction: The following is added after the first sentence:
Any litigation arising from this Statement of Limited Warranty will be settled exclusively by the City of Montevideo Court’s Jurisdiction.

VENEZUELA
Jurisdiction: The following is added after the first sentence:
Any litigation arising from this Statement of Limited Warranty will be settled exclusively by the Courts of the Metropolitan Area Of the City of Caracas.

NORTH AMERICA

How to Obtain Warranty Service: The following is added to this Section:
To obtain warranty service from IBM service in Canada or the United States, call 1-800-IBM-SERV (426-7378).

CANADA
Limitation of Liability: The following replaces item 1 of this section:
1. damages for bodily injury (including death) or physical harm to real property and tangible personal property caused by Lenovo’s negligence; and

Governing Law: The following replaces “laws of the country in which you acquired the Machine” in the first sentence:
laws in the Province of Ontario.
UNITED STATES

Governing Law: The following replaces "laws of the country in which you acquired the Machine" in the first sentence:
laws of the State of New York.

ASIA PACIFIC

AUSTRALIA

What this Warranty Covers: The following paragraph is added to this section:
The warranties specified in this Section are in addition to any rights you may have under the Trade Practices Act 1974 or other similar legislation and are only limited to the extent permitted by the applicable legislation.

Limitation of Liability: The following is added to this section:
Where Lenovo is in breach of a condition or warranty implied by the Trade Practices Act 1974 or other similar legislation, Lenovo’s liability is limited to the repair or replacement of the goods or the supply of equivalent goods. Where that condition or warranty relates to right to sell, quiet possession or clear title, or the goods are of a kind ordinarily acquired for personal, domestic or household use or consumption, then none of the limitations in this paragraph apply.

Governing Law: The following replaces "laws of the country in which you acquired the Machine" in the first sentence:
laws of the State or Territory.

CAMBODIA AND LAOS

Governing Law: The following replaces "laws of the country in which you acquired the Machine" in the first sentence:
laws of the State of New York, United States of America.

CAMBODIA, INDONESIA, AND LAOS

Arbitration: The following is added under this heading:
Disputes arising out of or in connection with this Statement of Limited Warranty shall be finally settled by arbitration which shall be held in Singapore in accordance with the Arbitration Rules of Singapore International Arbitration Center ("SIAC Rules") then in effect. The arbitration award shall be final and binding for the parties without appeal and shall be in writing and set forth the findings of fact and the conclusions of law.

The number of arbitrators shall be three, with each side to the dispute being entitled to appoint one arbitrator. The two arbitrators appointed by the parties shall appoint a third arbitrator who shall act as chairman of the proceedings. Vacancies in the post of chairman shall be filled by the president of the SIAC.
Other vacancies shall be filled by the respective nominating party. Proceedings shall continue from the stage they were at when the vacancy occurred.

If one of the parties refuses or otherwise fails to appoint an arbitrator within 30 days of the date the other party appoints its, the first appointed arbitrator shall be the sole arbitrator, provided that the arbitrator was validly and properly appointed.

All proceedings shall be conducted, including all documents presented in such proceedings, in the English language. The English language version of this Statement of Limited Warranty prevails over any other language version.

HONG KONG S.A.R. OF CHINA AND MACAU S.A.R. OF CHINA
Governing Law: The following replaces "laws of the country in which you acquired the Machine" in the first sentence: laws of Hong Kong Special Administrative Region of China.

INDIA
Limitation of Liability: The following replaces items 1 and 2 of this section:
1. liability for bodily injury (including death) or damage to real property and tangible personal property will be limited to that caused by Lenovo’s negligence; and
2. as to any other actual damage arising in any situation involving nonperformance by Lenovo pursuant to, or in any way related to the subject of this Statement of Limited Warranty, the charge paid by you for the individual Machine that is the subject of the claim.

Arbitration: The following is added under this heading
Disputes arising out of or in connection with this Statement of Limited Warranty shall be finally settled by arbitration which shall be held in Bangalore, India in accordance with the laws of India then in effect. The arbitration award shall be final and binding for the parties without appeal and shall be in writing and set forth the findings of fact and the conclusions of law.

The number of arbitrators shall be three, with each side to the dispute being entitled to appoint one arbitrator. The two arbitrators appointed by the parties shall appoint a third arbitrator who shall act as chairman of the proceedings. Vacancies in the post of chairman shall be filled by the president of the Bar Council of India. Other vacancies shall be filled by the respective nominating party. Proceedings shall continue from the stage they were at when the vacancy occurred.
If one of the parties refuses or otherwise fails to appoint an arbitrator within 30 days of the date the other party appoints its, the first appointed arbitrator shall be the sole arbitrator, provided that the arbitrator was validly and properly appointed.

All proceedings shall be conducted, including all documents presented in such proceedings, in the English language. The English language version of this Statement of Limited Warranty prevails over any other language version.

JAPAN
Governing Law: The following sentence is added to this section:
Any doubts concerning this Statement of Limited Warranty will be initially resolved between us in good faith and in accordance with the principle of mutual trust.

MALAYSIA
Limitation of Liability: The word "SPECIAL" in item 3 of the fifth paragraph is deleted.

NEW ZEALAND
What this Warranty Covers: The following paragraph is added to this section:
The warranties specified in this section are in addition to any rights you may have under the Consumer Guarantees Act 1993 or other legislation which cannot be excluded or limited. The Consumer Guarantees Act 1993 will not apply in respect of any goods which Lenovo provides, if you require the goods for the purposes of a business as defined in that Act.

Limitation of Liability: The following is added to this section:
Where Machines are not acquired for the purposes of a business as defined in the Consumer Guarantees Act 1993, the limitations in this Section are subject to the limitations in that Act.

PEOPLE’S REPUBLIC OF CHINA (PRC)
Governing Law: The following replaces “laws of the country in which you acquired the Machine” in the first sentence:
laws of the State of New York, United States of America (except when local law requires otherwise).

PHILIPPINES
Limitation of Liability: Item 3 in the fifth paragraph is replaced by the following:
SPECIAL (INCLUDING NOMINAL AND EXEMPLARY DAMAGES), MORAL, INCIDENTAL, OR INDIRECT DAMAGES FOR ANY ECONOMIC CONSEQUENTIAL DAMAGES; OR

Arbitration: The following is added: under this heading
Disputes arising out of or in connection with this Statement of Limited
Warranty shall be finally settled by arbitration which shall be held in Metro Manila, Philippines in accordance with the laws of the Philippines then in effect. The arbitration award shall be final and binding for the parties without appeal and shall be in writing and set forth the findings of fact and the conclusions of law.

The number of arbitrators shall be three, with each side to the dispute being entitled to appoint one arbitrator. The two arbitrators appointed by the parties shall appoint a third arbitrator who shall act as chairman of the proceedings. Vacancies in the post of chairman shall be filled by the president of the Philippine Dispute Resolution Center, Inc. Other vacancies shall be filled by the respective nominating party. Proceedings shall continue from the stage they were at when the vacancy occurred.

If one of the parties refuses or otherwise fails to appoint an arbitrator within 30 days of the date the other party appoints its, the first appointed arbitrator shall be the sole arbitrator, provided that the arbitrator was validly and properly appointed.

All proceedings shall be conducted, including all documents presented in such proceedings, in the English language. The English language version of this Statement of Limited Warranty prevails over any other language version.

SINGAPORE
Limitation of Liability: The words “SPECIAL” and “ECONOMIC” in item 3 in the fifth paragraph are deleted.

EUROPE, MIDDLE EAST, AFRICA (EMEA)

THE FOLLOWING TERMS APPLY TO ALL EMEA COUNTRIES:
The terms of this Statement of Limited Warranty apply to Machines purchased from Lenovo or a Lenovo reseller.

How to Obtain Warranty Service:
Add the following paragraph in Western Europe (Andorra, Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Monaco, Netherlands, Norway, Poland, Portugal, San Marino, Slovakia, Slovenia, Spain, Sweden, Switzerland, United Kingdom, Vatican State, and any country subsequently added to the European Union, as from the date of accession):

The warranty for Machines acquired in Western Europe shall be valid and applicable in all Western Europe countries provided the Machines have been announced and made available in such countries.
If you purchase a Machine in one of the Western European countries, as defined above, you may obtain warranty service for that Machine in any of those countries from a Service Provider, provided the Machine has been announced and made available by Lenovo in the country in which you wish to obtain service.

If you purchased a Personal Computer Machine in Albania, Armenia, Belarus, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Georgia, Hungary, Kazakhstan, Kyrgyzstan, Federal Republic of Yugoslavia, Former Yugoslav Republic of Macedonia (FYROM), Moldova, Poland, Romania, Russia, Slovak Republic, Slovenia, or Ukraine, you may obtain warranty service for that Machine in any of those countries from a Service Provider, provided the Machine has been announced and made available by Lenovo in the country in which you wish to obtain service.

If you purchase a Machine in a Middle Eastern or African country, you may obtain warranty service for that Machine from a Service Provider within the country of purchase, provided the Machine has been announced and made available by Lenovo in that country. Warranty service in Africa is available within 50 kilometers of a Service Provider. You are responsible for transportation costs for Machines located outside 50 kilometers of a Service Provider.

Governing Law:
The phrase "the laws of the country in which you acquired the Machine" is replaced by:
1) "the laws of Austria" in Albania, Armenia, Azerbaijan, Belarus, Bosnia-Herzegovina, Bulgaria, Croatia, Georgia, Hungary, Kazakhstan, Kyrgyzstan, FYR Macedonia, Moldova, Poland, Romania, Russia, Slovak Republic, Slovenia, Tajikistan, Turkmenistan, Ukraine, Uzbekistan, and FR Yugoslavia; 2) "the laws of France" in Algeria, Benin, Burkina Faso, Cameroon, Cape Verde, Central African Republic, Chad, Comoros, Congo Republic, Djibouti, Democratic Republic of Congo, Equatorial Guinea, French Guiana, French Polynesia, Gabon, Gambia, Guinea, Guinea-Bissau, Ivory Coast, Lebanon, Madagascar, Mali, Mauritania, Mauritius, Mayotte, Morocco, New Caledonia, Niger, Reunion, Senegal, Seychelles, Togo, Tunisia, Vanuatu, and Wallis & Futuna; 3) "the laws of Finland" in Estonia, Latvia, and Lithuania; 4) "the laws of England" in Angola, Bahrain, Botswana, Burundi, Egypt, Eritrea, Ethiopia, Ghana, Jordan, Kenya, Kuwait, Liberia, Malawi, Malta, Mozambique, Nigeria, Oman, Pakistan, Qatar, Rwanda, Sao Tome, Saudi Arabia, Sierra Leone, Somalia, Tanzania, Uganda, United Arab Emirates, the United Kingdom, West Bank/Gaza, Yemen, Zambia, and Zimbabwe; and 5) "the laws of South Africa" in South Africa, Namibia, Lesotho and Swaziland.
Jurisdiction: The following exceptions are added to this section:
1) In Austria, the choice of jurisdiction for all disputes arising out of this Statement of Limited Warranty and relating thereto, including its existence, will be the competent court of law in Vienna, Austria (Inner-City); 2) in Angola, Bahrain, Botswana, Burundi, Egypt, Eritrea, Ethiopia, Ghana, Jordan, Kenya, Kuwait, Liberia, Malawi, Malta, Mozambique, Nigeria, Oman, Pakistan, Qatar, Rwanda, Sao Tome, Saudi Arabia, Sierra Leone, Somalia, Tanzania, Uganda, United Arab Emirates, West Bank/Gaza, Yemen, Zambia, and Zimbabwe all disputes arising out of this Statement of Limited Warranty or related to its execution, including summary proceedings, will be submitted to the exclusive jurisdiction of the English courts; 3) in Belgium and Luxembourg, all disputes arising out of this Statement of Limited Warranty or related to its interpretation or its execution, the law, and the courts of the capital city, of the country of your registered office and/or commercial site location only are competent; 4) in France, Algeria, Benin, Burkina Faso, Cameroon, Cape Verde, Central African Republic, Chad, Comoros, Congo Republic, Djibouti, Democratic Republic of Congo, Equatorial Guinea, French Guiana, French Polynesia, Gabon, Gambia, Guinea, Guinea-Bissau, Ivory Coast, Lebanon, Madagascar, Mali, Mauritania, Mauritius, Mayotte, Morocco, New Caledonia, Niger, Reunion, Senegal, Seychelles, Togo, Tunisia, Vanuatu, and Wallis & Futuna all disputes arising out of this Statement of Limited Warranty or related to its violation or execution, including summary proceedings, will be settled exclusively by the Commercial Court of Paris; 5) in Russia, all disputes arising out of or in relation to the interpretation, the violation, the termination, the nullity of the execution of this Statement of Limited Warranty shall be settled by Arbitration Court of Moscow; 6) in South Africa, Namibia, Lesotho and Swaziland, both of us agree to submit all disputes relating to this Statement of Limited Warranty to the jurisdiction of the High Court in Johannesburg; 7) in Turkey all disputes arising out of or in connection with this Statement of Limited Warranty shall be resolved by the Istanbul Central (Sultanahmet) Courts and Execution Directorates of Istanbul, the Republic of Turkey; 8) in each of the following specified countries, any legal claim arising out of this Statement of Limited Warranty will be brought before, and settled exclusively by, the competent court of a) Athens for Greece, b) Tel Aviv-Jaffa for Israel, c) Milan for Italy, d) Lisbon for Portugal, and e) Madrid for Spain; and 9) in the United Kingdom, both of us agree to submit all disputes relating to this Statement of Limited Warranty to the jurisdiction of the English courts.

Arbitration: The following is added under this heading:
In Albania, Armenia, Azerbaijan, Belarus, Bosnia-Herzegovina, Bulgaria, Croatia, Georgia, Hungary, Kazakhstan, Kyrgyzstan, FYR Macedonia, Moldova, Poland, Romania, Russia, Slovakia, Slovenia, Tajikistan, Turkmenistan, Ukraine, Uzbekistan, and FR Yugoslavia all disputes arising out of this Statement of Limited Warranty or related to its violation,
termination or nullity will be finally settled under the Rules of Arbitration and Conciliation of the International Arbitral Center of the Federal Economic Chamber in Vienna (Vienna Rules) by three arbitrators appointed in accordance with these rules. The arbitration will be held in Vienna, Austria, and the official language of the proceedings will be English. The decision of the arbitrators will be final and binding upon both parties. Therefore, pursuant to paragraph 598 (2) of the Austrian Code of Civil Procedure, the parties expressly waive the application of paragraph 595 (1) figure 7 of the Code. Lenovo may, however, institute proceedings in a competent court in the country of installation.

In Estonia, Latvia and Lithuania all disputes arising in connection with this Statement of Limited Warranty will be finally settled in arbitration that will be held in Helsinki, Finland in accordance with the arbitration laws of Finland then in effect. Each party will appoint one arbitrator. The arbitrators will then jointly appoint the chairman. If arbitrators cannot agree on the chairman, then the Central Chamber of Commerce in Helsinki will appoint the chairman.

EUROPEAN UNION (EU)

THE FOLLOWING TERMS APPLY TO ALL EU COUNTRIES:
The warranty for Machines acquired in EU countries is valid and applicable in all EU countries provided the Machines have been announced and made available in such countries.

How to Obtain Warranty Service: The following is added to this section:
To obtain warranty service from IBM service in EU countries, see the telephone listing in Part 3 - Warranty Information.
You may contact IBM service at the following address:

IBM Warranty & Service Quality Dept.
PO Box 30
Spango Valley
Greenock
Scotland PA16 0AH

CONSUMERS
Consumers have legal rights under applicable national legislation governing the sale of consumer goods. Such rights are not affected by the warranties provided in this Statement of Limited Warranty.

AUSTRIA, DENMARK, FINLAND, GREECE, ITALY, NETHERLANDS, NORWAY, PORTUGAL, SPAIN, SWEDEN AND SWITZERLAND

Limitation of Liability: The following replaces the terms of this section in its entirety:
Except as otherwise provided by mandatory law:
1. Lenovo’s liability for any damages and losses that may arise as a
goal was the fulfillment of its obligations under or in connection
with this Statement of Limited Warranty or due to any other cause related
to this Statement of Limited Warranty is limited to the compensation of
only those damages and losses proved and actually arising as an
immediate and direct consequence of the non-fulfillment of such
obligations (if Lenovo is at fault) or of such cause, for a maximum amount
equal to the charges you paid for the Machine.
The above limitation shall not apply to damages for bodily injuries
(including death) and damages to real property and tangible personal
property for which Lenovo is legally liable.

2. **UNDER NO CIRCUMSTANCES IS LENOVO, ITS SUPPLIERS,
RESELLERS OR SERVICE PROVIDERS LIABLE FOR ANY OF THE
FOLLOWING, EVEN IF INFORMED OF THEIR POSSIBILITY: 1) LOSS
OF, OR DAMAGE TO, DATA; 2) INCIDENTAL OR INDIRECT
DAMAGES, OR FOR ANY ECONOMIC CONSEQUENTIAL
DAMAGES; 3) LOST PROFITS, EVEN IF THEY ARISE AS AN
IMMEDIATE CONSEQUENCE OF THE EVENT THAT GENERATED
THE DAMAGES; OR 4) LOSS OF BUSINESS, REVENUE, GOODWILL,
OR ANTICIPATED SAVINGS.

**FRANCE AND BELGIUM**
**Limitation of Liability:** The following replaces the terms of this section in its
entirety:

Except as otherwise provided by mandatory law:

1. Lenovo’s liability for any damages and losses that may arise as a
consequence of the fulfillment of its obligations under or in connection
with this Statement of Limited Warranty is limited to the compensation of
only those damages and losses proved and actually arising as an
immediate and direct consequence of the non-fulfillment of such
obligations (if Lenovo is at fault), for a maximum amount equal to the
charges you paid for the Machine that has caused the damages.
The above limitation shall not apply to damages for bodily injuries
(including death) and damages to real property and tangible personal
property for which Lenovo is legally liable.

2. **UNDER NO CIRCUMSTANCES IS LENOVO, ITS SUPPLIERS,
RESELLERS OR SERVICE PROVIDERS LIABLE FOR ANY OF THE
FOLLOWING, EVEN IF INFORMED OF THEIR POSSIBILITY: 1) LOSS
OF, OR DAMAGE TO, DATA; 2) INCIDENTAL OR INDIRECT
DAMAGES, OR FOR ANY ECONOMIC CONSEQUENTIAL
DAMAGES; 3) LOST PROFITS, EVEN IF THEY ARISE AS AN
IMMEDIATE CONSEQUENCE OF THE EVENT THAT GENERATED
THE DAMAGES; OR 4) LOSS OF BUSINESS, REVENUE, GOODWILL,
OR ANTICIPATED SAVINGS.
THE FOLLOWING TERMS APPLY TO THE COUNTRY SPECIFIED:

AUSTRIA
The provisions of this Statement of Limited Warranty replace any applicable statutory warranties.

What this Warranty Covers: The following replaces the first sentence of the first paragraph of this section:
The warranty for a Lenovo Machine covers the functionality of the Machine for its normal use and the Machine’s conformity to its Specifications.

The following paragraphs are added to this section:
The limitation period for consumers in action for breach of warranty is the statutory period as a minimum. In case your Service Provider is unable to repair a Lenovo Machine, you can alternatively ask for a partial refund as far as justified by the reduced value of the unrepaired Machine or ask for a cancellation of the respective agreement for such Machine and get your money refunded.

The second paragraph does not apply.

What Lenovo Will Do to Correct Problems: The following is added to this section:
During the warranty period, Lenovo will reimburse you for the transportation charges for the delivery of the failing Machine to IBM Service.

Limitation of Liability: The following paragraph is added to this section:
The limitations and exclusions specified in the Statement of Limited Warranty will not apply to damages caused by Lenovo with fraud or gross negligence and for express warranty.

The following sentence is added to the end of item 2:
Lenovo’s liability under this item is limited to the violation of essential contractual terms in cases of ordinary negligence.

EGYPT
Limitation of Liability: The following replaces item 2 in this section:
as to any other actual direct damages, Lenovo’s liability will be limited to the total amount you paid for the Machine that is the subject of the claim.

Applicability of suppliers, resellers, and Service Providers (unchanged).

FRANCE
Limitation of Liability: The following replaces the second sentence of the first paragraph of this section:
In such instances, regardless of the basis on which you are entitled to claim damages from Lenovo, Lenovo is liable for no more than: (items 1 and 2 unchanged).

GERMANY
What this Warranty Covers: The following replaces the first sentence of the first paragraph of this section:
The warranty for a Lenovo Machine covers the functionality of the Machine for its normal use and the Machine’s conformity to its Specifications.

The following paragraphs are added to this section:
The minimum warranty period for Machines is twelve months. In case your Service Provider is unable to repair a Lenovo Machine, you can alternatively ask for a partial refund as far as justified by the reduced value of the unrepaired Machine or ask for a cancellation of the respective agreement for such Machine and get your money refunded.

The second paragraph does not apply.

What Lenovo Will Do to Correct Problems: The following is added to this section:
During the warranty period, transportation for delivery of the failing Machine to Lenovo or IBM service will be at Lenovo’s expense.

Limitation of Liability: The following paragraph is added to this section:
The limitations and exclusions specified in the Statement of Limited Warranty will not apply to damages caused by Lenovo with fraud or gross negligence and for express warranty.

The following sentence is added to the end of item 2:
Lenovo’s liability under this item is limited to the violation of essential contractual terms in cases of ordinary negligence.

HUNGARY
Limitation of Liability: The following is added at the end of this section:
The limitation and exclusion specified herein shall not apply to liability for a breach of contract damaging life, physical well-being, or health that has been caused intentionally, by gross negligence, or by a criminal act.

The parties accept the limitations of liability as valid provisions and state that the Section 314.(2) of the Hungarian Civil Code applies as the acquisition price as well as other advantages arising out of the present Statement of Limited Warranty balance this limitation of liability.

IRELAND
What this Warranty Covers: The following is added to this section:
Except as expressly provided in these terms and conditions, all statutory conditions, including all warranties implied, but without prejudice to the generality of the foregoing all warranties implied by the Sale of Goods Act 1893 or the Sale of Goods and Supply of Services Act 1980 are hereby excluded.

Limitation of Liability: The following replaces the terms of section in its entirety:
For the purposes of this section, a “Default” means any act, statement, omission, or negligence on the part of Lenovo in connection with, or in relation to, the subject matter of this Statement of Limited Warranty in respect of which Lenovo is legally liable to you, whether in contract or tort. A number of Defaults which together result in, or contribute to, substantially the same loss or damage will be treated as one Default occurring on the date of occurrence of the last such Default.

Circumstances may arise where, because of a Default, you are entitled to recover damages from Lenovo.

This section sets out the extent of Lenovo’s liability and your sole remedy.
1. Lenovo will accept unlimited liability for death or personal injury caused by the negligence of Lenovo.
2. Subject always to the Items for Which Lenovo is Not Liable below, Lenovo will accept unlimited liability for physical damage to your tangible property resulting from the negligence of Lenovo.
3. Except as provided in items 1 and 2 above, Lenovo’s entire liability for actual damages for any one Default will not in any event exceed 125% of the amount you paid for the Machine directly relating to the Default.

Items for Which Lenovo is Not Liable
Save with respect to any liability referred to in item 1 above, under no circumstances is Lenovo, its suppliers, resellers or Service Providers liable for any of the following, even if Lenovo or they were informed of the possibility of such losses:
1. loss of, or damage to, data;
2. special, indirect, or consequential loss; or
3. loss of profits, business, revenue, goodwill, or anticipated savings.

SLOVAKIA
Limitation of Liability: The following is added to the end of the last paragraph:
The limitations apply to the extent they are not prohibited under §§ 373-386 of the Slovak Commercial Code.

SOUTH AFRICA, NAMIBIA, BOTSWANA, LESOTHO AND SWAZILAND
Limitation of Liability: The following is added to this section:
Lenovo’s entire liability to you for actual damages arising in all situations
involving nonperformance by Lenovo in respect of the subject matter of this
Statement of Warranty will be limited to the charge paid by you for the
individual Machine that is the subject of your claim from Lenovo.

UNITED KINGDOM
Limitation of Liability: The following replaces the terms of this section is in its
entirety:
For the purposes of this section, a “Default” means any act, statement,
 omission, or negligence on the part of Lenovo in connection with, or in
relation to, the subject matter of this Statement of Limited Warranty in respect
of which Lenovo is legally liable to you, whether in contract or tort. A number
of Defaults which together result in, or contribute to, substantially the same
loss or damage will be treated as one Default.

Circumstances may arise where, because of a Default, you are entitled to
recover damages from Lenovo.

This section sets out the extent of Lenovo’s liability and your sole remedy.
1. Lenovo will accept unlimited liability for:
a. death or personal injury caused by the negligence of Lenovo; and
b. any breach of its obligations implied by Section 12 of the Sale of Goods
   Act 1979 or Section 2 of the Supply of Goods and Services Act 1982, or
   any statutory modification or re-enactment of either such Section.
2. Lenovo will accept unlimited liability, subject always to the Items for
   Which Lenovo is Not Liable below, for physical damage to your tangible
   property resulting from the negligence of Lenovo.
3. Lenovo’s entire liability for actual damages for any one Default will not in
   any event, except as provided in items 1 and 2 above, exceed 125% of the
   total purchase price payable or the charges for the Machine directly
   relating to the Default.

These limits also apply to Lenovo’s suppliers, resellers and Service Providers.
They state the maximum for which Lenovo and such suppliers, resellers and
Service Providers are collectively responsible.

Items for Which Lenovo is Not Liable
Save with respect to any liability referred to in item 1 above, under no
circumstances is Lenovo or any of its suppliers, resellers or Service Providers
liable for any of the following, even if Lenovo or they were informed of the
possibility of such losses:
1. loss of, or damage to, data;
2. special, indirect, or consequential loss; or
3. loss of profits, business, revenue, goodwill, or anticipated savings.
Part 3 - Warranty Information

This Part 3 provides information regarding the warranty applicable to your Machine, including the warranty period and type of warranty service Lenovo provides.

Warranty Period

The warranty period may vary by country or region and is specified in the table below. NOTE: “Region” means either Hong Kong or Macau Special Administrative Region of China.

A warranty period of 3 years on parts and 1 year on labor means that Lenovo provides warranty service without charge for:

a. parts and labor during the first year of the warranty period; and

b. parts only, on an exchange basis, in the second and third years of the warranty period. Your Service Provider will charge you for any labor provided in performance of the repair or replacement(s) in the second and third year of warranty period.

<table>
<thead>
<tr>
<th>Machine Type</th>
<th>Country or Region of Purchase</th>
<th>Warranty period</th>
<th>Types of Warranty Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>1866</td>
<td>US, Canada, Mexico, Brazil, and Australia</td>
<td>Parts and Labor - 3 years, Battery pack and Tablet Digitizer Pen - 1 year</td>
<td>6, 1</td>
</tr>
<tr>
<td></td>
<td>Japan</td>
<td>Parts and Labor - 1 years, Battery pack and Tablet Digitizer Pen - 1 year</td>
<td>6, 1</td>
</tr>
<tr>
<td></td>
<td>Others</td>
<td>Parts and Labor - 3 years, Battery pack and Tablet Digitizer Pen - 1 year</td>
<td>7, 1</td>
</tr>
<tr>
<td>1867</td>
<td>All</td>
<td>Parts and Labor - 3 years, Battery pack - 1 year</td>
<td>5, 1</td>
</tr>
<tr>
<td>1868</td>
<td>US</td>
<td>Parts and Labor - 1 years, Battery pack and Tablet Digitizer Pen - 1 year</td>
<td>6, 1</td>
</tr>
<tr>
<td></td>
<td>Others</td>
<td>Parts and Labor - 1 years, Battery pack and Tablet Digitizer Pen - 1 year</td>
<td>7, 1</td>
</tr>
<tr>
<td>Machine Type</td>
<td>Country or Region of Purchase</td>
<td>Warranty period</td>
<td>Types of Warranty Service</td>
</tr>
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<td>-------------------------------</td>
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</tr>
<tr>
<td>1869</td>
<td>US</td>
<td>Parts and Labor - 3 years</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Battery pack and Tablet Digitizer Pen - 1 year</td>
<td>1</td>
</tr>
</tbody>
</table>

**Note:** Your ThinkPad X41 Tablet computer is shipped with five replacement tips for the X41 Tablet Digitizer Pen. Be sure to store the pen tips in a secure place for future use. The pen tips will not be covered under the digitizer pen or computer warranty.

**Types of Warranty Service**

If required, your Service Provider will provide repair or exchange service depending on the type of warranty service specified for your Machine in the above table and as described below. Scheduling of service will depend upon the time of your call and is subject to parts availability. Service levels are response time objectives and are not guaranteed. The specified level of warranty service may not be available in all worldwide locations, additional charges may apply outside your Service Provider’s normal service area, contact your local Service Provider representative or your reseller for country and location specific information.

1. **Customer Replaceable Unit ("CRU") Service**
   Lenovo will ship CRUs to you for you to install, Tier 1 CRUs are easy to install whereas Tier 2 CRUs require some technical skill and tools. CRU information and replacement instructions are shipped with your Machine and are available from Lenovo at any time on your request. You may request that a Service Provider install CRUs, at no additional charge, under the type of warranty service designated for your Machine. Lenovo specifies in the materials shipped with a replacement CRU whether a defective CRU must be returned. When return is required, 1) return instructions and a container are shipped with the replacement CRU, and 2) you may be charged for the replacement CRU if Lenovo does not receive the defective CRU within 30 days of your receipt of the replacement.

2. **On-site Service**
   Your Service Provider will either repair or exchange the failing Machine at your location and verify its operation. You must provide suitable working area to allow disassembly and reassembly of the Lenovo Machine. The area must be clean, well lit and suitable for the purpose. For some Machines, certain repairs may require sending the Machine to a designated service center.

3. **Courier or Depot Service**
You will disconnect the failing Machine for collection arranged by your Service Provider. A shipping container will be provided to you for you to return your Machine to a designated service center. A courier will pick up your Machine and deliver it to the designated service center. Following its repair or exchange, the service center will arrange the return delivery of the Machine to your location. You are responsible for its installation and verification.

4. **Customer Carry-In or Mail-In Service**
   You will deliver or mail as your Service Provider specifies (prepaid unless specified otherwise) the failing Machine suitably packaged to a designated location. After the Machine has been repaired or exchanged, it will be made available for your collection or, for Mail-in Service, the Machine will be returned to you at Lenovo’s expense, unless your Service Provider specifies otherwise. You are responsible for the subsequent installation and verification of the Machine.

5. **CRU and On-site Service**
   This type of Warranty Service is a combination of Type 1 and Type 2 (see above).

6. **CRU and Courier or Depot Service**
   This type of Warranty Service is a combination of Type 1 and Type 3 (see above).

7. **CRU and Customer Carry-In or Mail-In Service**
   This type of Warranty Service is a combination of Type 1 and Type 4 (see above).

When a 5, 6 or 7 type of warranty service is listed, your Service Provider will determine which type of warranty service is appropriate for the repair.

* This type of service is called ThinkPad EasyServ or EasyServ in some countries.

To obtain warranty service contact a Service Provider. In Canada or the United States, call 1-800-IBM-SERV (426-7378). In other countries, see the telephone numbers below.

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**Worldwide telephone list**

Phone numbers are subject to change without notice. For the most current phone numbers, go to http://www.lenovo.com/think/support and click Support phone list.
<table>
<thead>
<tr>
<th>Country or Region</th>
<th>Telephone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Africa</td>
<td>Africa: +44 (0)1475 555 055</td>
</tr>
<tr>
<td></td>
<td>South Africa: +27 11 3028888 and 0800110756</td>
</tr>
<tr>
<td></td>
<td>Central Africa: Contact the nearest IBM Business Partner</td>
</tr>
<tr>
<td>Argentina</td>
<td>0800-666-0011 (Spanish)</td>
</tr>
<tr>
<td>Australia</td>
<td>131-426 (English)</td>
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<tr>
<td>Austria</td>
<td>01-24592-5901 (30 day up and running support)</td>
</tr>
<tr>
<td></td>
<td>01-211-454-610 (Warranty service and support)</td>
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<tr>
<td></td>
<td>(German)</td>
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<tr>
<td>Belgium</td>
<td>02-210-9820 (30 day up and running support)</td>
</tr>
<tr>
<td></td>
<td>02-225-3611 (Warranty service and support)</td>
</tr>
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<td></td>
<td>(Dutch)</td>
</tr>
<tr>
<td></td>
<td>02-210-9800 (30 day up and running support)</td>
</tr>
<tr>
<td></td>
<td>02-225-3611 (Warranty service and support)</td>
</tr>
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<td></td>
<td>(French)</td>
</tr>
<tr>
<td>Bolivia</td>
<td>0800-0189 (Spanish)</td>
</tr>
<tr>
<td>Brazil</td>
<td>Calls made from within the Sao Paulo region: (11) 3889-8986</td>
</tr>
<tr>
<td></td>
<td>Calls made from outside the Sao Paulo region: 0800-7014-815</td>
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<tr>
<td></td>
<td>(Brazilian Portuguese)</td>
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<tr>
<td>Canada</td>
<td>1-800-565-3344 (English, French)</td>
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<tr>
<td></td>
<td>In Toronto only call: 416-383-3344</td>
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<tr>
<td>Chile</td>
<td>800-224-488 (Spanish)</td>
</tr>
<tr>
<td>China</td>
<td>800 810 1818 (Mandarin)</td>
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<tr>
<td>China (Hong Kong S.A.R.)</td>
<td>Home PC: 852 2825 7799</td>
</tr>
<tr>
<td></td>
<td>Commercial PC: 852 8205 0333</td>
</tr>
<tr>
<td></td>
<td>ThinkPad and WorkPad: 852 2825 6580</td>
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<tr>
<td></td>
<td>(Cantonese, English, Putonghua)</td>
</tr>
<tr>
<td>Colombia</td>
<td>1-800-912-3021 (Spanish)</td>
</tr>
<tr>
<td>Costa Rica</td>
<td>284-3911 (Spanish)</td>
</tr>
<tr>
<td>Croatia</td>
<td>0800-0426</td>
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<tr>
<td>Cyprus</td>
<td>+357-22-841100</td>
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<tr>
<td>Czech Republic</td>
<td>+420-2-7213-1316</td>
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<tr>
<td>Denmark</td>
<td>4520-8200 (30 day up and running support)</td>
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<tr>
<td></td>
<td>7010-5150 (Warranty service and support)</td>
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<td>(Danish)</td>
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<td>Dominican Republic</td>
<td>566-4755</td>
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<td>566-5161 ext. 8201</td>
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<td>Toll Free within the Dominican Republic: 1-200-1929</td>
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<td></td>
<td>(Spanish)</td>
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<tr>
<td>Ecuador</td>
<td>1-800-426911 (Spanish)</td>
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<td>Telephone Number</td>
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<tr>
<td>El Salvador</td>
<td>250-5696 (Spanish)</td>
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<tr>
<td>Estonia</td>
<td>+386-61-1796-699</td>
</tr>
<tr>
<td>Finland</td>
<td>09-459-6960 (30 day up and running support) +358-800-1-4260 (Warranty service and support) (Finnish)</td>
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<tr>
<td>France</td>
<td>0238-557-450 (30 day up and running support) Hardware: 0810-631-213 (Warranty service and support) Software: 0810-631-020 (Warranty service and support) (French)</td>
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<tr>
<td>Germany</td>
<td>07032-15-49201 (30 day up and running support) 01805-25-35-58 (Warranty service and support) (German)</td>
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<tr>
<td>Greece</td>
<td>+30-210-680-1700</td>
</tr>
<tr>
<td>Guatemala</td>
<td>335-8490 (Spanish)</td>
</tr>
<tr>
<td>Honduras</td>
<td>Tegucigalpa &amp; San Pedro Sula: 232-4222 San Pedro Sula: 552-2234 (Spanish)</td>
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<tr>
<td>Hungary</td>
<td>+36-1-382-5720</td>
</tr>
<tr>
<td>India</td>
<td>1600-44-6666 Alternate Toll Free: +91-80-26788940 (English)</td>
</tr>
<tr>
<td>Indonesia</td>
<td>800-140-3555 +62-21-251-2955 (English, Bahasa Indonesian)</td>
</tr>
<tr>
<td>Ireland</td>
<td>01-815-9202 (30 day up and running support) 01-881-1444 (Warranty service and support) (English)</td>
</tr>
<tr>
<td>Italy</td>
<td>02-7031-6101 (30 day up and running support) +39-800-820094 (Warranty service and support) (Italian)</td>
</tr>
<tr>
<td>Country or Region</td>
<td>Telephone Number</td>
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<tr>
<td>------------------</td>
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<tr>
<td>Japan</td>
<td>Desktop:</td>
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<tr>
<td></td>
<td>Toll free: 0120-887-870</td>
</tr>
<tr>
<td></td>
<td>For International: +81-46-266-4724</td>
</tr>
<tr>
<td></td>
<td>ThinkPad:</td>
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<tr>
<td></td>
<td>Toll free: 0120-887-874</td>
</tr>
<tr>
<td></td>
<td>For International: +81-46-266-4724</td>
</tr>
<tr>
<td></td>
<td>Both of the above numbers will be answered with a Japanese language voice prompt. For telephone support in English, please wait for the Japanese voice prompt to end, and an operator will answer. Please ask for &quot;English support please,&quot; and your call will be transferred to an English speaking operator.</td>
</tr>
<tr>
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<td>PC Software:</td>
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<tr>
<td></td>
<td>0120-558-695</td>
</tr>
<tr>
<td></td>
<td>Overseas calls: +81-44-200-8666 (Japanese)</td>
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<td>Korea</td>
<td>1588-5801 (Korean)</td>
</tr>
<tr>
<td>Latvia</td>
<td>+386-61-1796-699</td>
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<tr>
<td>Lithuania</td>
<td>+386-61-1796-699</td>
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<tr>
<td>Luxembourg</td>
<td>+352-298-977-5063 (French)</td>
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<tr>
<td>Malaysia</td>
<td>1800-88-8558 (English, Bahasa Melayu)</td>
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<td>Malta</td>
<td>+356-23-4175</td>
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<tr>
<td>Mexico</td>
<td>001-866-434-2080 (Spanish)</td>
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<td>Middle East</td>
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<td>Netherlands</td>
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<td>New Zealand</td>
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<td>Nicaragua</td>
<td>255-6658 (Spanish)</td>
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<td>Norway</td>
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<td>8152-1550 (Warranty service and support) (Norwegian)</td>
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<tr>
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<tr>
<td>Portugal</td>
<td>+351-21-892-7147 (Portuguese)</td>
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<tr>
<td>Romania</td>
<td>+4-021-224-4015</td>
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<td>Country or Region</td>
<td>Telephone Number</td>
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<tr>
<td>Russian Federation</td>
<td>+7-095-940-2000 (Russian)</td>
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<tr>
<td>Singapore</td>
<td>1800-3172-888 (English, Bahasa Melayu)</td>
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<td>Slovakia</td>
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<td>Spain</td>
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<td>91-397-6503 (Spanish)</td>
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<td>Sri Lanka</td>
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<td>077-117-1040 (Warranty service and support)</td>
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<td>Thailand</td>
<td>1-800-299-229 (Thai)</td>
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<td>Turkey</td>
<td>00800-211-4032 (Turkish)</td>
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<td>01475-555-055 (30 day up and running support)</td>
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<td>Hardware: 08705-500-900 (Warranty service and support)</td>
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<td>Software: 08475-151-516 (Warranty service and support)</td>
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<td>(English)</td>
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<td>United States</td>
<td>1-800-426-7378 (English)</td>
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<tr>
<td>Uruguay</td>
<td>000-411-005-6649 (Spanish)</td>
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<tr>
<td>Venezuela</td>
<td>0-800-100-2011 (Spanish)</td>
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<tr>
<td>Vietnam</td>
<td>For northern area and Hanoi: 84-4-8436675</td>
</tr>
<tr>
<td></td>
<td>For southern area and Ho Chi Minh City: 84-8-8295160</td>
</tr>
<tr>
<td></td>
<td>(English, Vietnamese)</td>
</tr>
</tbody>
</table>

**Guarantee supplement for Mexico**

This supplement is considered part of Lenovo’s Statement of Limited Warranty and shall be effective solely and exclusively for products distributed and commercialized within Territory of the Mexican United States. In the event of a conflict, the terms of this supplement shall apply.

All software programs pre-loaded in the equipment shall only have a thirty-(30) day guarantee for installation defects from the date of purchase. Lenovo
is not responsible for the information in such software programs and/or any additional software programs installed by you or installed after purchase of the product.

Services not chargeable to the guarantee shall be charged to the final user, prior an authorization.

In the event that warranty repair is required please call the Customer Support Center at 001-866-434-2080, where you will be directed to the nearest Authorized Service Center. Should no Authorized Service Center exist in your city, location or within 70 kilometers of your city or location, the guarantee includes any reasonable delivery charges related to the transportation of the product to our nearest Authorized Service Center. Please call the nearest Authorized Service Center to obtain the necessary approvals or information concerning the shipment of the product and the shipment address.

To obtain a list of Authorized Service Centers, please visit: http://www.pc.ibm.com/la/centros_de_servicio/servicio_mexico/servicio_mexico.html

Manufactured by:
SCI Systems de México, S.A. de C.V.
Av. De la Solidaridad Iberoamericana No. 7020
Col. Club de Golf Atlas
El Salto, Jalisco, México
C.P. 45680,
Tel. 01-800-3676900

Marketing by:
Lenovo de México, Comercialización y Servicios, S. A. de C. V.
Alfonso Nápoles Gándara No 3111
Parque Corporativo de Peña Blanca
Delegación Álvaro Obregón
México, D.F., México
C.P. 01210,
Tel. 01-800-00-325-00
Appendix C. Customer replacement units (CRUs)

Customer replaceable units (CRUs)

For your ThinkPad computer, the following parts are designated Customer Replaceable Unit (CRU) parts.

Listed below are the CRUs and the documentation where removal/replacement instructions are located.

<table>
<thead>
<tr>
<th></th>
<th>Service and Troubleshooting Guide</th>
<th>Setup Poster</th>
<th>ThinkVantage Productivity Center</th>
<th>Online Hardware Maintenance Manual</th>
<th>Online Video</th>
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<tr>
<td><strong>Tier 1 CRUs</strong></td>
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<tr>
<td>Battery</td>
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<td>AC adapter and power cord</td>
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<tr>
<td>Trackpoint cap</td>
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<td>Hard disk drive</td>
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<td>Phone line cord</td>
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<td>Mini-PCI Card</td>
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</table>

You can find instructions for replacing CRUs in your on-board help. To start ThinkVantage Productivity Center, press the blue Access IBM button on your ThinkPad.

If you are unable to access these instructions or if you have difficulty replacing a CRU, you can use either of the following additional resources:
• The Online Hardware Maintenance Manual and Online Videos available on the Support Web site

• The Customer Support Center. For the telephone number of the Support Center for your country or region, see “Worldwide telephone list” on page 37.
Appendix D. Notices

Notices

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Television output notice

The following notice applies to models that have the factory-installed television-output feature.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Electronic emissions notices

The following information refers to ThinkPad X41 Tablet, machine type 1866, 1867, 1868 and 1869

Federal Communications Commission (FCC) Declaration of Conformity

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, used, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult an authorized dealer or service representative for help.

Lenovo is not responsible for any radio or television interference caused by using other than recommended cables or connectors or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user’s authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Responsible party:
Lenovo (United States) Inc.
One Manhattanville Road
Purchase, New York 10577
Telephone: (919) 254-0532

Industry Canada Class B emission compliance statement
This Class B digital apparatus complies with Canadian ICES-003.

European Union EMC Directive conformance statement
This product is in conformity with the protection requirements of EU Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility. Lenovo cannot accept responsibility for any failure to satisfy the protection requirements resulting from a nonrecommended modification of the product, including the fitting of non-Lenovo option cards.

This product has been tested and found to comply with the limits for Class B Information Technology Equipment according to CISPR 22/European
Standard EN 55022. The limits for Class B equipment were derived for typical residential environments to provide reasonable protection against interference with licensed communication devices.

**Environmental notices for Japan**

If you are a company employee and need to dispose of a ThinkPad computer that is the property of the company, you must do so in accordance with the Law for Promotion of Effective Utilization of Resources. The computer is categorized as industrial waste. It should be properly disposed of by an industrial waste disposal contractor certified by a local government. In accordance with the Law for Promotion of Effective Utilization of Resources, IBM Japan provides, through its PC Collecting and Recycling Services, for the collecting, reuse, and recycling of disused computers. For details, visit the IBM Web site at www.ibm.com/jp/pc/service/recycle/

Pursuant to the Law for Promotion of Effective Utilization of Resources, the collecting and recycling of home-used computers by the manufacturer was begun on October 1, 2003. For details, visit the IBM Web site at www.ibm.com/jp/pc/service/recycle/personal.html

**Disposing of a ThinkPad computer component containing heavy metal**

The printed circuit board of a ThinkPad computer contains heavy metal. (Soldering with lead is used on the printed circuit board.) To properly dispose of the disused printed circuit board, follow the instructions in Collecting and recycling a disused ThinkPad computer.

**Disposing of a disused lithium battery**

A button-shaped lithium battery is installed on the system board of your ThinkPad computer to back up the main battery. If you want to replace it with a new one, contact your place of purchase or ask for a repair service provided by IBM. If you have replaced it by yourself and want to dispose of the disused lithium battery, insulate it with vinyl tape, contact your place of purchase, and follow the instructions.

If you use a ThinkPad computer at home and need to dispose of a lithium battery, you must comply with local ordinances and regulations.

**Handling a disused ThinkPad battery pack**

Your ThinkPad computer has a lithium ion battery pack or a nickel metal hydride battery pack. If you are a company ThinkPad computer user and need to dispose of a battery pack, contact the proper person in IBM sales,
service, or marketing, and follow that person’s instructions. You can also see the instructions at www.ibm.com/jp/pc/recycle/battery

If you use a ThinkPad computer at home and need to dispose of a battery pack, you must comply with local ordinances and regulations.

**IBM Lotus Software Offer**

**About the offer:** As a qualifying ThinkPad computer customer, you are receiving a single, limited license for the Lotus Notes “standalone” client. This license entitles you to install and use this software on your new ThinkPad computer using one of the following options:

- **Media for this software is not included in this offer. If you do not already have the appropriate Lotus Notes Client,** you can order a CD and install the software onto your computer.** Use one of the methods listed on the following page to order.
- **If you already have a licensed copy of the software,** you are entitled to make and use one additional copy of the software you have.

**About IBM Lotus Notes:** With your standalone, limited use Notes client, you can integrate your most valuable messaging, collaborative and personal information management (PIM) resources —like e-mail, calendar, to-do list — allowing you to access them while connected to or disconnected from your network. The standalone license does not include the right to access any IBM Lotus Domino servers; however this stand-alone license may be upgraded to a full Notes license at a reduced price. For more information visit http://www.lotus.com/notes.

**Customer Support:** For support information and phone numbers to help with initial installation of software, visit http://www.pc.ibm.com/support. To purchase technical support beyond this initial installation support, visit http://www.lotus.com/passport.

**Note:** When you use Lotus SmartSuite v9.8 with your ThinkPad X41 Tablet computer, enter all your input with the keyboard. Input entered with the Digitizer Pen will not display properly. No technical support is provided for the use of Lotus SmartSuite v9.8 on a computer running Windows XP Tablet Edition.

**International Program License Agreement:** The software licensed to you under this offer does not include software upgrades or technical support, and is subject to the terms and conditions of the IBM International Program License Agreement (IPLA) that accompanies the software. Your use of the Lotus Notes program described in this offer constitutes acceptance of the
terms of this Offer and the IPLA. For further information regarding the IBM IPLA, visit http://www.ibm.com/software/sla/sladb.nsf. These programs are not for resale.

**Proof of Entitlement:** The proof of purchase for your qualifying ThinkPad computer, as well as this Offer document, should be retained as your proof of entitlement.

**Purchasing Upgrades, Additional Licenses and Technical Support**
Software upgrades and technical support are available for a fee through IBM’s Passport Advantage Program. For information about purchasing additional licenses for Notes, SmartSuite, or other Lotus products, visit http://www.ibm.com or http://www.lotus.com/passport.

**To order a CD:**

**Important:** Pursuant to this Offer, you may order one CD media per license. You will need to provide the 7 digit serial number of the new ThinkPad computer that you purchased. The CD is provided at no charge; however, applicable shipping, duties and taxes may be imposed by local jurisdictions. Please allow 10 to 20 business days from receipt of your request for delivery.

–In U. S. Or Canada:
  Call 800-690-3899
–In Latin American Countries:
  Via the Internet: http://smartsuite.modusmedia.com
  Mail address:
  IBM - Lotus Notes and SmartSuite Program
  Modus Media International
  501 Innovation Avenue
  Morrisville, NC, USA 27560
  Fax: 919-405-4495
  To inquire about an order, contact:
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  Via the Internet: http://ibm.modusmedia.co.uk
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Singapore 469000
Fax: +65 6448 5830
To inquire about an order, contact:
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