

The background features two broad, diagonal stripes. A light blue stripe runs from the top-left corner towards the bottom-right, and a darker blue stripe runs from the bottom-left corner towards the top-right, intersecting the first stripe.

Deltek

Deltek Cobra®

Data Structure

December 20, 2019



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Overview

The purpose of this document is to provide you with the updated version of all WST tables. These tables are used by several applications, such as Open Plan and Cobra.

System Data

Configuration Data

Table WST_AUDIT_LOG – Audit Log

The Audit Log table stores limited audit information pertaining to user activity in the PPM products.

Field Name	Description	Oracle Data Type	Nulls
EVENT_DATE	Date / Time of event occurrence.	DATE	NOT NULL
EVENT_ID	Event ID number 257 = Using Standard Authentication 258 = Using Windows Authentication 259 = User login 260 = Bad user name or password 265 = User not authorized for product 266 = Logins are disabled for product 267 = Product license count exceeded. 269 = User logoff 270 = Product terminated. Too many failed login attempts	NUMBER(10, 0)	NOT NULL
EVENT_TYPE	Event Type 1 = Error 2 = Warning 3 = Information 4 = Debug	NUMBER(10,0)	NOT NULL
DATA	Event Data (For future use).	LONG	NULL
MACHINE_ID	Computer that generated the event.	VARCHAR(15)	NOT NULL

Field Name	Description	Oracle Data Type	Nulls
PRD_UID	Product ID of the application that generated the event.	Number(10, 0)	NOT NULL
ROW_UID	Row Unique Identifier.	VARCHAR(22)	NOT NULL
USR_ID	User ID of user that generated the event.	VARCHAR(20)	NOT NULL

Table WST_CUSTOM_MENU – Custom Menu Items

The Custom Menu items table stores information related to custom menu items created via the Security Administrator for use in Cobra. This table is not defined in the Cobra data dictionary, and its structure must not be changed.

Field Name	Description	Oracle Data Type	Nulls
ACL_UID	The unique identifier for an access control record.	VARCHAR2(22)	NOT NULL
DIR_UID	The unique identifier for the directory object record to which the access control record applies.	VARCHAR2(22)	NOT NULL
GRP_ID	The unique identifier of a group.	VARCHAR2(20)	NULL
READONLY	Determines whether the user, group, or role combination is restricted to opening the directory object in read only mode.	NUMBER(10, 0)	NOT NULL
ROL_ID	The unique identifier of a role.	VARCHAR2(20)	NULL
USR_ID	The unique identifier of a user.	VARCHAR2(20)	NULL

Table WST_DCT – Data Dictionary

The Data Dictionary table defines the columns for tables within Cobra. The structure of this table itself should never be modified. If the structure of any Cobra tables defined in the data dictionary is modified, appropriate entries or adjustments must be made to this table. This table is not defined in the Cobra data dictionary, and its structure must not be changed.

Field Name	Description	Oracle Data Type	Nulls
COL_FLAGS		NUMBER(10, 0)	NOT NULL
FKEY_FLD_NAME		VARCHAR2(30)	NULL
FKEY_REQUIRED		NUMBER(10, 0)	NOT NULL
FKEY_TABLE		VARCHAR2(30)	NULL
FKEY_VIRTUAL		NUMBER(10, 0)	NOT NULL
FLD_NAME	The name of a Cobra field.	VARCHAR2(30)	NOT NULL
LENGTH	The number of characters required for the field.	NUMBER(10, 0)	NOT NULL
SCALE	The number of decimal places required for the field.	NUMBER(10, 0)	NOT NULL
STRING_ID	The identifier of the field's string resources.	NUMBER(10, 0)	NOT NULL
SYS_NAME		VARCHAR2(30)	NULL
TABLE_TYPE	The three-character identifier of the table in which the field exists.	VARCHAR2(30)	NOT NULL
TYPE	The Cobra data type of the field.	VARCHAR2(4)	NOT NULL
USR_NAME	A user-defined name to be displayed for this field, overriding the name determined by the STRING_ID.	VARCHAR2(60)	NULL

Table WST_ENUM – PPM Enumeration Types

The PPM Enumeration Types table stores all enumeration types associated with fields in PPM tables. This table is not used by Cobra.

Field Name	Description	Oracle Data Type	Nulls
ENUM_CODE	Enumeration code.	VARCHAR(4)	NOT NULL
ENUM_ORDER	Sort order.	NUMBER(10,0)	NULL

Field Name	Description	Oracle Data Type	Nulls
FLD_NAME	Field name of the table.	VARCHAR(30)	NOT NULL
STRING_ID	Language resource ID.	VARCHAR(30)	NOT NULL
TABLE_TYPE	Unique table type.	VARCHAR(30)	NOT NULL

Table WST_LCK – Object Locks

The Locked Objects table maintains a list of items that are currently open within Cobra. The data dictionary table identifier for table OPP_LCK is LCK.

Field Name	Description	Oracle Data Type	Nulls
CONTEXT	Context of the lock.	VARCHAR2(22)	NULL
CONTEXT_ID	The unique identifier of a file or object which has been locked.	VARCHAR2(200)	NULL
DIR_UID	The unique identifier of the locked directory object. This value is not displayed in Cobra. The object's name (DIR_ID) is displayed instead.	VARCHAR2(22)	NOT NULL
LASTUPDATE	The date and time that the lock record was last updated.	DATE	NOT NULL
LCK_UID	The unique identifier for an object lock record. This value is not displayed in Cobra.	VARCHAR2(22)	NOT NULL
LOCKMODE	The mode in which the directory object is locked: E (Exclusive), S (Shared), R (Read Only), B (checked out to the briefcase data source), or I (checked out to the main data source).	VARCHAR(1)	NOT NULL
MACHINE_ID	The machine ID of a user associated with an object lock record.	VARCHAR2(48)	NOT NULL

Field Name	Description	Oracle Data Type	Nulls
PRD_UID	The unique identifier for a Deltek product record.	NUMBER(10, 0)	NOT NULL
ULI_UID	The identifier for the user's login, unique for each session even if for the same user.	VARCHAR(22)	NOT NULL
USR_ID	The ID of the user that has the object locked.	VARCHAR2(20)	NOT NULL

Table WST_LICN – Licenses

The Licenses table contains the list of licenses installed. This table is not used by Cobra.

Field Name	Description	Oracle Data Type	Nulls
LICN_KEY	License Key.	VARCHAR(255)	NOT NULL
LICN_UID	Unique License ID.	VARCHAR(22)	NOT NULL
PRD_UID	Unique Product ID.	NUMBER(10, 0)	NOT NULL
LICN_ORG		NVARCHAR2(60)	
LICN_CLIENT_ID		VARCHAR2(100)	

Table WST_LTYP – License Types

The License Types table contains the list of license types. This table is not used by Cobra.

Field Name	Description	Oracle Data Type	Nulls
LTYP	Unique ID of License Type.	VARCHAR(8)	NOT NULL
PRD_UID	Unique Product ID.	NUMBER(10, 0)	NULL
TYPE_NAME	Type Name.	VARCHAR(50)	NULL

Table WST_TAB – Table Names

The Table Names table provides a mapping between the 3-character data dictionary table identifier and the actual database table name. This table is not defined in the Cobra data dictionary, and its structure must not be changed.

Field Name	Description	Oracle Data Type	Nulls
COTYPE	For Deltek use only.	VARCHAR2(30)	NULL
FLAGS	For Deltek use only.	NUMBER(10, 0)	NOT NULL
PRIMARY_KEY	Not used by Cobra.	VARCHAR2(100)	NULL
PRD_UID	Deltek PPM Product ID.	NUMBER(10, 0)	NULL
TABLE_NAME	Names of the tables defined in the Cobra data dictionary (WST_DCT).	VARCHAR2(30)	NOT NULL
TABLE_TYPE	Table types defined in the Cobra data dictionary (WST_DCT).	VARCHAR2(30)	NOT NULL
VERSION		VARCHAR2(4)	NOT NULL

Table WST_UPD – User Preference Defaults

The User Preference Defaults table stores the default values for user preference information used within Cobra. This table is not defined in the Cobra data dictionary, and its structure must not be changed.

Field Name	Description	Oracle Data Type	Nulls
CAT_VALUE	The value of the user preference default.	VARCHAR2(2000)	NULL
CATEGORY	The category for a user preference default record.	VARCHAR2(60)	NOT NULL
PRD_UID	The unique identifier for a Deltek product record.	NUMBER(10, 0)	NOT NULL
SECURE		NUMBER(10,0)	NOT NULL

Table WST_UPF – User Preference Settings

The User Preferences table stores all user preference information used within Cobra. This table is not defined in the Cobra data dictionary, and its structure must not be changed.

Field Name	Description	Oracle Data Type	Nulls
CAT_VALUE	The value of the user preference setting.	VARCHAR2(2000)	NULL
CATEGORY	The category for a user preference setting.	VARCHAR2(60)	NOT NULL

Field Name	Description	Oracle Data Type	Nulls
DIR_UID		VARCHAR2(22)	NOT NULL
PRD_UID	The unique identifier for a Deltek product record.	NUMBER(10, 0)	NOT NULL
USR_ID	The user to whom the user preference setting applies.	VARCHAR2(20)	NOT NULL
SECURE		NUMBER(10, 0)	NOT NULL

Directory Data

Table WST_DIR – Object Directory

The Object Directory table is the master directory for all project-related data items. The data dictionary table identifier for table WST_DIR is DIR.

Field Name	Description	Oracle Data Type	Nulls
DESCRIPTION	The description of a directory object.	NVARCHAR(125)	NULL
DIR_ID	The name of a project, code, calendar, resource, or view object. In Cobra, these objects are often referred to as "files".	VARCHAR2(22)	NOT NULL
DIR_UID	A unique identifier for an object directory record.	VARCHAR2(22)	NOT NULL
LASTUPDATE	The date and time that the directory object record was last updated.	DATE	NOT NULL
OPENMODE	The mode in which the object is to be opened: Exclusive, Shared, or Read Only. The values are stored in the database as E, S, and R, respectively.	VARCHAR2(1)	NOT NULL
OWNER_ID	The user ID of the object's owner.	VARCHAR2(20)	NULL

Field Name	Description	Oracle Data Type	Nulls
SEQUENCE	Used to manage multi-user concurrency in shared mode.	NUMBER(10, 0)	NOT NULL
TABLE_TYPE	The data type of the directory object. Valid values are: CLD (calendar file), COD (code file), PRJ (project file), RCL (reporting calendar), RDS (resource file), and VUE (view file).	VARCHAR2(30)	NOT NULL
USR_ID	The user ID of the last user to update the directory object record.	VARCHAR2(20)	NOT NULL

Security Data

Table WST_ACL – Object Access Rights

The Object Access Control table stores access control information for items in the object folder table. The data dictionary table identifier for table WST_ACL is ACL.

Field Name	Description	Oracle Data Type	Nulls
ACL_UID	The unique identifier for an access control record.	VARCHAR2(22)	NOT NULL
DIR_UID	The unique identifier for the directory object record to which the access control record applies.	VARCHAR2(22)	NOT NULL
GRP_ID	The unique identifier of a group.	VARCHAR2(20)	NULL
READONLY	Determines whether the user, group, or role combination is restricted to opening the directory object in read only mode.	NUMBER(10, 0)	NOT NULL
ROL_ID	The unique identifier of a role.	VARCHAR2(20)	NULL
USR_ID	The unique identifier of a user.	VARCHAR2(20)	NULL

Table WST_GRP – Group Definitions

The Group Definitions table contains definitions of valid groups. The data dictionary table identifier for table WST_GRP is GRP.

Field Name	Description	Oracle Data Type	Nulls
DESCRIPTION	The description of a group.	VARCHAR2(60)	NULL
GRP_ID	The unique identifier of a group.	VARCHAR2(20)	NOT NULL
MANAGER	The group's manager.	VARCHAR2(20)	NULL
ROL_ID	The default role for a group.	VARCHAR2(20)	NULL

Table WST_LIC – License Exceptions

The License Exceptions table contains information about license exceptions. This table is not defined in the Cobra data dictionary, and its structure must not be changed.

Field Name	Description	Oracle Data Type	Nulls
LIC_USERS		NUMBER(10, 0)	NOT NULL
LICENSE		VARCHAR2(32)	NOT NULL
LOGGED_USERS	The number of logged in users when the exception occurred.	NUMBER(10, 0)	NOT NULL
LOGINTIME	A user's last login date and time.	DATE	NOT NULL
MACHINE_ID	The machine ID of a currently logged in user.	VARCHAR2(48)	NOT NULL
PRD_UID	The unique identifier for a Deltak product record.	NUMBER(10, 0)	NOT NULL
USR_ID	The unique identifier for a user.	VARCHAR2(20)	NOT NULL

Table WST_PFA – Product Function Group Access Rights

Access rights to a product function group are assigned for each role that the administrator has defined. These access rights are stored in the Product Function Group Access Rights table.

Records in this table represent the intersection of a Role and a Product Function group and the specified access rights.

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Each function group has 2 security attributes that can be controlled. The first attribute controls the visible state of securable objects in the function group as Visible or Not Visible. The second attribute controls the enabled state of securable objects in the function group as Enabled or Not Enabled.

The access attributes are stored in a single field using the following definitions: FLAG_VISIBLE Mask = 0x00000001L

0 = Not Visible 1 = Visible

FLAG_ENABLED Mask = 0x00000002L

0 = Not Enabled 1 = Enabled

These flags are independent so that a user may be granted rights to execute a command or modify a data element even if it is not displayed to the user because of the state of the visibility flag. Data in the access rights table is stored in a sparse format such that records exist only for items that do not have rights granted to them. If an item is specified as both visible and enabled, then a record does not exist in the access rights table. If an item is specified as not visible and/or not enabled, then records are placed in the access rights table. This table is not defined in the Cobra data dictionary, and its structure must not be changed.

Field Name	Description	Oracle Data Type	Nulls
GRP_ID	The unique identifier of a group.	VARCHAR2(20)	NULL
PFG_UID	The unique identifier of a product function group record.	VARCHAR2(22)	NOT NULL
RIGHTS	The rights specified by the product function group access record.	NUMBER(10, 0)	NOT NULL
ROL_ID	The unique identifier of a role.	VARCHAR2(20)	NULL

Table WST_PFD – Project Function Group Detail

The Product Function Group Details table stores the associations of Securable objects to function groups. This table is used by the Security Runtime module to determine the securable objects that are controlled by a particular function group. It is not referenced by the Security administration module. This table is not defined in the Cobra data dictionary, and its structure must not be changed.

Field Name	Description	Oracle Data Type	Nulls
GRP_ID	The unique identifier of a group.	VARCHAR2(20)	NULL
PFG_UID	The unique identifier of a product function group record.	VARCHAR2(22)	NOT NULL

Table WST_PFG – Product Function Group Definitions

The Product Function Group table stores a collection of one or more Securable objects that are controlled as a single item for purposes of defining access control. For instance, the user might define a function group that contains a single command. This group can then be set to define whether or not a user can execute that command. Another function group might be made up of a group of data elements that are secured as a group such as the fields that make up Activity Costs. Another function group could be defined to control the ability to update Activity Progress. This function group might contain both command and data elements to prevent the user from both displaying the progress dialog as well as changing the data elements through a spreadsheet.

As implied by their title, product function groups are defined by each product. Product function groups are also defined as applying to either a Group or a Role based on the value of the TYPE field. A TYPE field value of 0 represents a Group, a value of 1 represents a Role. Function groups defined for groups are displayed as part of the Group administration module by product. Function groups defined for Roles are displayed as part of the Role administration module by product.

Product function groups are stored in the Product Function Group table by product ID. This table is not defined in the Cobra data dictionary, and its structure must not be changed.

Field Name	Description	Oracle Data Type	Nulls
DESCRIPTION	The description of the product function group.	NVARCHAR(100)	NULL
PFG_ID		VARCHAR2(44)	NULL
PFG_UID	The unique identifier of a product function group record.	VARCHAR2(22)	NULL
PRD_UID	The unique identifier for a Deltek product record.	NUMBER(10, 0)	NOT NULL
TYPE		NUMBER(10, 0)	NULL

Table WST_PRD – Installed Deltek Products

The Installed Products table stores product identifiers that are used to determine security information for each specific product. This table is not defined in the Cobra data dictionary, and its structure must not be changed.

Field Name	Description	Oracle Data Type	Nulls
DESCRIPTION	The name of the installed product.	VARCHAR2(60)	NOT NULL
FLAG		NUMBER(10, 0)	NULL
INSTALLDATE	The date and time the product was installed.	DATE	NOT NULL

Field Name	Description	Oracle Data Type	Nulls
INSTALLEDVER_MAJ	The major version number (the portion of the version number to the left of the decimal place).	NUMBER(10, 0)	NULL
INSTALLEDVER_MIN	The minor version number (the portion of the version number to the right of the decimal place).	NUMBER(10, 0)	NULL
LICENSE	The license key for the installed product.	VARCHAR2(32)	NULL
MESSAGETEXT	A message that is to be displayed to each user upon logging into the product.	VARCHAR2(250)	NULL
MSGEXPIRE	The expiration date of the login message.	DATE	NULL
PRD_UID	The unique identifier for a Delttek product record.	NUMBER(10, 0)	NOT NULL
INSTALLEDVER _REVISION	The service pack version.	NUMBER(10, 0)	NOT NULL
INSTALLEDVER_SP		NUMBER(10, 0)	

Table WST_PSO – Securable Object Definition

The Securable Object Definition table stores items that products define and recognize as being able to participate in the overall security model. Securable objects can be broken down into 2 distinct groups: Data elements and Commands. Data elements represent is the persistent properties of an object that are typically stored as fields on a database table. Commands are operations that can be executed by the user - these are most analogous to the menu options available in each product. Securable objects are stored on the table by Product ID. The securable object table enumerates all items that the product exposes as securable. This table is not defined in the Cobra data dictionary, and its structure must not be changed.

Field Name	Description	Oracle Data Type	Nulls
OBJ_UID		VARCHAR2(60)	NOT NULL
PRD_UID	The unique identifier for a Delttek product record.	NUMBER(10, 0)	NOT NULL

Table WST_ROL – Role Definitions

Roles are used to specify access rights against product function groups. The Security Role Definition table contains the definitions of the Security roles. The data dictionary table identifier for table WST_ROL is ROL.

Field Name	Description	Oracle Data Type	Nulls
DESCRIPTION	The description of a role.	VARCHAR2(60)	NULL
MANAGER	The role's manager.	VARCHAR2(20)	NULL
ROL_ID	The unique identifier of a role.	VARCHAR2(20)	NOT NULL
OWNER_DELEGATE		Owner Delegate	

Table WST_UPA – User Product Access Control

The User Product Access Control table stores information about which products user are permitted to run. The data dictionary table identifier for table WST_UPA is UPA.

Field Name	Description	Oracle Data Type	Nulls
FLAGS		NUMBER(10, 0)	NOT NULL
PRD_UID	The unique identifier for a Delttek product record.	NUMBER(10, 0)	NOT NULL
USR_ID	The unique identifier of a user.	VARCHAR2(20)	NOT NULL
LICN_UID	Not used by Cobra.	VARCHAR2(22)	NULL

Table WST_USG – User-group Assignment

The User-Group Assignment table contains the associations of users to groups. The data dictionary table identifier for table WST_USG is USG.

Field Name	Description	Oracle Data Type	Nulls
GRP_ID	The unique identifier of a group.	VARCHAR2(20)	NOT NULL
USG_UID	The unique identifier for a user-group association record.	VARCHAR2(22)	NULL
USR_ID	The unique identifier of a user.	VARCHAR2(20)	NOT NULL

Table WST_USR – User Definitions

The User Definitions table contains definitions of valid users. The data dictionary table identifier for table WST_USR is USR.

Field Name	Description	Oracle Data Type	Nulls
ACT_COMPARE		VARCHAR2(4)	NULL
ACT_FIELD		VARCHAR2(30)	NULL
ACT_RULE		NUMBER(10, 0)	NULL
ACT_VALUE		VARCHAR2(30)	NULL
ADDRESS1	The user's address.	VARCHAR2(60)	NULL
ADDRESS2	Second line in the user's address.	VARCHAR2(60)	NULL
ALTMANAGER	The user's alternate manager.	VARCHAR2(20)	NULL
CITY	The user's city.	VARCHAR2(20)	NULL
COMMENTS	Comments for the user record.	VARCHAR2(255)	NULL
COUNTRY	The user's country.	VARCHAR2(20)	NULL
DEPARTMENT	The user's department.	VARCHAR2(60)	NULL
DESCRIPTION	A description of the user's account.	VARCHAR2(60)	NULL
EMAIL	The user's email address.	VARCHAR2(60)	NULL
FAX	The user's fax number.	VARCHAR2(20)	NULL
FILTER		VARCHAR2(10)	NULL
FIRST_NAME	The user's first name.	VARCHAR2(50)	NULL
LAST_NAME	The user's last name.	VARCHAR2(50)	NULL
LOCATION	The user's location.	VARCHAR2(60)	NULL
MANAGER	The user's manager.	VARCHAR2(20)	NULL
PASSWD	The user's encrypted password.	VARCHAR2(178)	NULL

Field Name	Description	Oracle Data Type	Nulls
PHONE	The user's phone number.	VARCHAR2(20)	NULL
ROL_ID	The users default Role.	VARCHAR(20)	NULL
STATE	The user's state.	VARCHAR2(20)	NULL
USR_ID	The user's ID.	VARCHAR2(20)	NOT NULL
DOMAIN		VARCHAR(80)	

Common WST Tables not used by Cobra

Table WST_CFG

Field Name	Description	Oracle Data Type	Nulls
CFG_UID		VARCHAR(22)	NOT NULL
SEQUENCE		NUMBER(10, 0)	NOT NULL
PRD_UID		NUMBER(10, 0)	NOT NULL
CFG_TYPE		VARCHAR2(30)	NOT NULL
CFG_ID		NVARCHAR2(60)	NOT NULL
OWNER_ID		NVARCHAR2(20)	NULL
USR_ID		NVARCHAR2(20)	NOT NULL
LASTUPDATE		DATE	NOT NULL
DESCRIPTION		NVARCHAR2(254)	NULL
DATA		LONG	NULL

Table WST_FILE

Field Name	Description	Oracle Data Type	Nulls
FILE_UID		VARCHAR2(22)	NOT NULL
FK_UID		VARCHAR2(22)	NOT NULL
LASTUPDATE		DATE	NOT NULL

Field Name	Description	Oracle Data Type	Nulls
OWNER_ID		NVARCHAR2(20)	NOT NULL
TABLE_TYPE		VARCHAR2(30)	NOT NULL
FILE_NAME		NVARCHAR2(255)	NOT NULL
FILE_DATA		BLOB	NOT NULL

Table WST_MESSAGE_QUEUE

Field Name	Description	Oracle Data Type	Nulls
MESSAGE_UID		VARCHAR2(22)	NOT NULL
SEQUENCE		NUMBER(10,0)	NOT NULL
LASTUPDATE		DATE	NOT NULL
MESSAGE_STATUS		VARCHAR2(4)	NOT NULL
QUEUE_SERVER		VARCHAR2(15)	NOT NULL
USR_ID		NVARCHAR2(20)	NOT NULL

Table WST_PROCESSLOG

Field Name	Description	Oracle Data Type	Nulls
ROW_UID		VARCHAR2(22)	NOT NULL
PARENT_UID		VARCHAR2(22)	
PRD_UID		NUMBER(10, 0)	NOT NULL
PERCENTCOMPLETE		NUMBER(10, 0)	NOT NULL
ERRORCOUNT		NUMBER(10, 0)	
WARNINGCOUNT		NUMBER(10, 0)	
USER_ABORT		NUMBER(10, 0)	NOT NULL
STARTDATE		TIMESTAMP	
FINISHDATE		TIMESTAMP	
LASTUPDATE		TIMESTAMP	

System Data

Field Name	Description	Oracle Data Type	Nulls
PROCESS_ID		VARCHAR2(30)	NOT NULL
USR_ID		NVARCHAR2(20)	NOT NULL
DIR_ID		NVARCHAR2(22)	
TABLE_TYPE		VARCHAR2(30)	
LOGFILENAME		NVARCHAR2(254)	
PROGRESS_TEXT		NVARCHAR2(254)	

Appendix A: If You Need Assistance

If you need assistance installing, implementing, or using Cobra, Deltek makes a wealth of information and expertise readily available to you.

Customer Services

For over 30 years, Deltek has maintained close relationships with client firms, helping with their problems, listening to their needs, and getting to know their individual business environments. A full range of customer services has grown out of this close contact, including the following:

- Extensive self-support options through the Deltek Support Center.
- Phone and email support from Customer Care analysts
- Technical services
- Consulting services
- Custom programming
- Classroom, on-site, and Web-based training

Attention: Find out more about these and other services from the Deltek Support Center.

Deltek Support Center

The Deltek Support Center is a support Web site for Deltek customers who purchase an Ongoing Support Plan (OSP).

The following are some of the many options that the Deltek Support Center provides:

- Search for product documentation, such as release notes, install guides, technical information, online help topics, and white papers
- Ask questions, exchange ideas, and share knowledge with other Deltek customers through the Deltek Support Center Community
- Access Cloud-specific documents and forums
- Download the latest versions of your Deltek products
- Search Deltek's knowledge base
- Submit a support case and check on its progress
- Transfer requested files to a Customer Care analyst
- Subscribe to Deltek communications about your products and services
- Receive alerts of new Deltek releases and hot fixes
- Initiate a Chat to submit a question to a Customer Care analyst online

Attention: For more information regarding Deltek Support Center, refer to the online help available from the Web site.

Access Deltek Support Center

To access the Deltek Support Center:

1. Go to <https://deltek.custhelp.com>.
2. Enter your Deltek Support Center **Username** and **Password**.
3. Click **Login**.

Note: If you forget your username or password, you can click the **Need Help?** button on the login screen for help.

Additional Documentation

The following table lists the Deltek documentation available for this release. Except where noted, all the user guides and quick reference guides listed in this table are available for download from the Deltek Support Center.

Document Name	Description
Cobra 8.3 Online Help	The online help contains detailed information and instructions on how to use Cobra's various features.
<i>Cobra 8.3 Release Notes</i>	This document contains important information concerning the installation and use of the product, and describes outstanding issues.
<i>Cobra 8.3 Installation Guide</i>	The Installation Guide provides step-by-step procedures on how to install the application. It also provides information about the software and hardware requirements of the product.



About Deltek

Better software means better projects. Deltek is the leading global provider of enterprise software and information solutions for project-based businesses. More than 23,000 organizations and millions of users in over 80 countries around the world rely on Deltek for superior levels of project intelligence, management and collaboration. Our industry-focused expertise powers project success by helping firms achieve performance that maximizes productivity and revenue. www.deltek.com