

# Deltek Costpoint® 7.1.1

Database Changes

System JAR 21 to System JAR 22

**November 2, 2016**

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# Contents

If You Need Assistance ..... 1

    Customer Services ..... 1

    Customer Care Connect Site..... 1

Costpoint 7.1.1 System JAR 21 to Costpoint 7.1.1 System JAR 22 Database Changes .....3

    Transaction Schema .....3

    Admin Schema..... 16

    System Schema.....24

## If You Need Assistance

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

### Customer Services

For over 20 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 Customer Care Connect Web portal.
- Phone and email support from Customer Care analysts
- Technical services
- Consulting services
- Custom programming
- Classroom, on-site, and Web-based training



[Find out more about these and other services from the Customer Care Connect site.](#)

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### Customer Care Connect Site

The Deltek Customer Care Connect site 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 Customer Care Connect site 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 Connect Customer Forums
- 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
- Use Quick Chat to submit a question to a Customer Care analyst online



[For more information regarding Deltek Customer Care Connect, refer to the online help available from the Web site.](#)

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## Access Customer Care Connect

To access the Customer Care Connect site, complete the following steps:

1. Go to <http://support.deltek.com>.
2. Enter your Customer Care Connect **Username** and **Password**.
3. Click **Log In**.



If you do not have a username and password for the Customer Care Connect site, contact your firm's Costpoint Administrator.

If you forget your username or password, you can click the **Account Assistance** button on the login screen for help.

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# Costpoint 7.1.1 System JAR 21 to Costpoint 7.1.1 System JAR 22 Database Changes

This section includes the changes made to the Costpoint database from Version 7.1.1 System JAR 21 to Version 7.1.1 System JAR 22.

## Transaction Schema

### Tables Added

Table Name
AOPUTLTE_INP_DETL
AOPUTLTE_INP_HDR
CPDATAALT
PROJ_ADT_CHG_HS
SAL_CAP_CD
SAL_CAP_EFF_DT
WFA_ACTIVITY_CASE
WFA_CASE_FIELD
WFA_WF_CASE
X_Z_AOPUTLTS_CURR_EXCH_RT

### Columns Added

Table Name	Column Name
ACCT_GRP_SETUP	SALCAP_MAP_ACCT
AOPUTLTE_INP_DETL	ACCT_ID
AOPUTLTE_INP_DETL	AP_1099_FL
AOPUTLTE_INP_DETL	AP_1099_TYPE_CD
AOPUTLTE_INP_DETL	COMPANY_ID
AOPUTLTE_INP_DETL	EXPENSE_DT_FLD
AOPUTLTE_INP_DETL	EXPENSE_RPT_ID

Table Name	Column Name
AOPUTLTE_INP_DETL	EXPENSE_RPT_LN_NO
AOPUTLTE_INP_DETL	EXP_AMT
AOPUTLTE_INP_DETL	EXP_LINE_DESC
AOPUTLTE_INP_DETL	EXT_BATCH_ID
AOPUTLTE_INP_DETL	EXT_EMPLOYEE_ID
AOPUTLTE_INP_DETL	EXT_EXPENSE_ID
AOPUTLTE_INP_DETL	EXT_EXPENSE_RPT_ID
AOPUTLTE_INP_DETL	EXT_SYSTEM_CODE
AOPUTLTE_INP_DETL	EXT_TS_PERIOD
AOPUTLTE_INP_DETL	EXT_TS_SCHEDULE
AOPUTLTE_INP_DETL	EXT_TS_YEAR
AOPUTLTE_INP_DETL	NOTES
AOPUTLTE_INP_DETL	ORG_ID
AOPUTLTE_INP_DETL	OWNER_ID
AOPUTLTE_INP_DETL	PAY_AMT
AOPUTLTE_INP_DETL	PAY_CRNCY_CD
AOPUTLTE_INP_DETL	PAY_EXCHG_RT_DT_FLD
AOPUTLTE_INP_DETL	PAY_VEND_ID
AOPUTLTE_INP_DETL	PAY_WHEN_PAID_FL
AOPUTLTE_INP_DETL	PROJ_ID
AOPUTLTE_INP_DETL	RECORD_TYPE
AOPUTLTE_INP_DETL	RECOVERY_AMT
AOPUTLTE_INP_DETL	RECOVERY_RT
AOPUTLTE_INP_DETL	REC_NO
AOPUTLTE_INP_DETL	REF1_ID

Table Name	Column Name
AOPUTLTE_INP_DETL	REF2_ID
AOPUTLTE_INP_DETL	SALES_TAX_AMT
AOPUTLTE_INP_DETL	S_STATUS_CD
AOPUTLTE_INP_DETL	TAXABLE_CD
AOPUTLTE_INP_DETL	TAX_CD
AOPUTLTE_INP_DETL	TIME_STAMP
AOPUTLTE_INP_DETL	TRN_CRNCY_CD
AOPUTLTE_INP_DETL	USE_TAX_AMT
AOPUTLTE_INP_HDR	ADV_DUE_DT_FLD
AOPUTLTE_INP_HDR	COMPANY_ID
AOPUTLTE_INP_HDR	EXPENSE_RPT_DT_FLD
AOPUTLTE_INP_HDR	EXPENSE_RPT_ID
AOPUTLTE_INP_HDR	EXT_BATCH_ID
AOPUTLTE_INP_HDR	EXT_EMPLOYEE_ID
AOPUTLTE_INP_HDR	EXT_EXPENSE_ID
AOPUTLTE_INP_HDR	EXT_EXPENSE_RPT_ID
AOPUTLTE_INP_HDR	EXT_SYSTEM_CODE
AOPUTLTE_INP_HDR	EXT_TS_PERIOD
AOPUTLTE_INP_HDR	EXT_TS_SCHEDULE
AOPUTLTE_INP_HDR	EXT_TS_YEAR
AOPUTLTE_INP_HDR	NOTES
AOPUTLTE_INP_HDR	OWNER_ID
AOPUTLTE_INP_HDR	RECORD_TYPE
AOPUTLTE_INP_HDR	REC_NO
AOPUTLTE_INP_HDR	S_STATUS_CD



Table Name	Column Name
AOPUTLTE_INP_HDR	TE_INT_ADV_ID
AOPUTLTE_INP_HDR	TIME_STAMP
AOPUTLTE_INP_HDR	VAT_TAX_DT_FLD
AOPUTLTE_INP_HDR	VAT_TAX_ID
AOPUTLTE_INP_HDR	VCHR_HOLD_FL
AOPUTLTE_INP_HDR	VEND_ID
CPDATAALT	CHG_PROJ_ID
CPDATAALT	CLIN_ID
CPDATAALT	EXT_CST_AMT
CPDATAALT	FY_CD
CPDATAALT	INVC_QTY
CPDATAALT	INVT_ABBRV_CD
CPDATAALT	INVT_LOC_ID
CPDATAALT	ISSUE_QTY
CPDATAALT	ITEM_ID
CPDATAALT	ITEM_KEY
CPDATAALT	ITEM_RVSN_ID
CPDATAALT	MODIFIED_BY
CPDATAALT	PD_NO
CPDATAALT	POST_SEQ_NO
CPDATAALT	PS_ID
CPDATAALT	RECPT_ID
CPDATAALT	ROWVERSION
CPDATAALT	SALES_ABBRV_CD
CPDATAALT	SHIP_ID

Table Name	Column Name
CPDATAALT	SHIP_QTY
CPDATAALT	SO_ID
CPDATAALT	SO_ISSUE_KEY
CPDATAALT	SO_ISSUE_LN_DESC
CPDATAALT	SO_ISSUE_LN_KEY
CPDATAALT	SO_ISSUE_LN_NOTES
CPDATAALT	SO_LN_COMP_KEY
CPDATAALT	SO_LN_KEY
CPDATAALT	SO_RLSE_NO
CPDATAALT	SUB_PD_NO
CPDATAALT	S_JNL_CD
CPDATAALT	S_SO_LN_TYPE
CPDATAALT	TIME_STAMP
CPDATAALT	UM_CD
CPDATAALT	UNIT_CST_AMT
CPDATAALT	USER_RVSN_FLD
CPDATAALT	WHSE_ID
PO_LN_DEL_SCH	ACCPTD_AMT
PO_LN_DEL_SCH	ACCPTD_QTY
PO_LN_DEL_SCH	RECVD_AMT
PO_LN_DEL_SCH	RECVD_QTY
PO_LN_DEL_SCH	REJ_CR_AMT
PO_LN_DEL_SCH	REJ_CR_QTY
PO_LN_DEL_SCH	REJ_PAY_AMT
PO_LN_DEL_SCH	REJ_PAY_QTY

Table Name	Column Name
PO_LN_DEL_SCH	REJ_REP_AMT
PO_LN_DEL_SCH	REJ_REP_QTY
PO_LN_DEL_SCH_CHNG	ACCPTD_AMT
PO_LN_DEL_SCH_CHNG	ACCPTD_QTY
PO_LN_DEL_SCH_CHNG	RECVD_AMT
PO_LN_DEL_SCH_CHNG	RECVD_QTY
PO_LN_DEL_SCH_CHNG	REJ_CR_AMT
PO_LN_DEL_SCH_CHNG	REJ_CR_QTY
PO_LN_DEL_SCH_CHNG	REJ_PAY_AMT
PO_LN_DEL_SCH_CHNG	REJ_PAY_QTY
PO_LN_DEL_SCH_CHNG	REJ_REP_AMT
PO_LN_DEL_SCH_CHNG	REJ_REP_QTY
PO_LN_DEL_SCH_HS	ACCPTD_AMT
PO_LN_DEL_SCH_HS	ACCPTD_QTY
PO_LN_DEL_SCH_HS	RECVD_AMT
PO_LN_DEL_SCH_HS	RECVD_QTY
PO_LN_DEL_SCH_HS	REJ_CR_AMT
PO_LN_DEL_SCH_HS	REJ_CR_QTY
PO_LN_DEL_SCH_HS	REJ_PAY_AMT
PO_LN_DEL_SCH_HS	REJ_PAY_QTY
PO_LN_DEL_SCH_HS	REJ_REP_AMT
PO_LN_DEL_SCH_HS	REJ_REP_QTY
PRG_PMT_EDIT_HDR	CUST_PO_ID
PRG_PMT_HDR_HS	CUST_PO_ID
PROJ	APPLY_SAL_CAP_FL

Table Name	Column Name
PROJ	SAL_CAP_CD
PROJ	SAL_CAP_EDIT_FL
PROJ_ADT_CHG_HS	ACCT_ID
PROJ_ADT_CHG_HS	ADT_CHG_KEY
PROJ_ADT_CHG_HS	ADT_TB_NAME
PROJ_ADT_CHG_HS	ALLOC_GRP_NO
PROJ_ADT_CHG_HS	BILL_LAB_CAT_CD
PROJ_ADT_CHG_HS	CHG_HS_LN_KEY
PROJ_ADT_CHG_HS	COLUMN_MOD_ID
PROJ_ADT_CHG_HS	COMPANY_ID
PROJ_ADT_CHG_HS	DATA_TYPE
PROJ_ADT_CHG_HS	DATE_REVISED
PROJ_ADT_CHG_HS	EMPL_ID
PROJ_ADT_CHG_HS	FY_CD
PROJ_ADT_CHG_HS	MODIFIED_BY
PROJ_ADT_CHG_HS	PD_NO
PROJ_ADT_CHG_HS	POOL_FY_CD
PROJ_ADT_CHG_HS	POOL_NO
PROJ_ADT_CHG_HS	PREV_DT
PROJ_ADT_CHG_HS	PREV_NUMBER
PROJ_ADT_CHG_HS	PREV_VALUE
PROJ_ADT_CHG_HS	PROJ_ID
PROJ_ADT_CHG_HS	PROJ_MOD_ID
PROJ_ADT_CHG_HS	REVISED_DT
PROJ_ADT_CHG_HS	REVISED_NUMBER

Table Name	Column Name
PROJ_ADT_CHG_HS	REVISED_VALUE
PROJ_ADT_CHG_HS	ROWVERSION
PROJ_ADT_CHG_HS	SUB_PD_NO
PROJ_ADT_CHG_HS	S_CEIL_TYPE_CD
PROJ_ADT_CHG_HS	S_RBA_CD
PROJ_ADT_CHG_HS	TIME_STAMP
PROJ_ADT_CHG_HS	VEND_ID
PROJ_CNTL	PREV_REV_CAL_VAL
RQ_LN_DEL_SCH	GENERATED_AMT
RQ_LN_DEL_SCH	GENERATED_QTY
RQ_LN_PO	AWARD_QUOTE_RSN
RQ_LN_PO	S_CL_SM_BUS_CD
RQ_LN_PO	S_RSN_WH_USED_CD
SAL_CAP_CD	ALLOW_6D_PAY_FL
SAL_CAP_CD	MODIFIED_BY
SAL_CAP_CD	REIMB_6D_PAY_FL
SAL_CAP_CD	ROWVERSION
SAL_CAP_CD	SAL_CAP_CD
SAL_CAP_CD	SAL_CAP_DESC
SAL_CAP_CD	SAL_CAP_HRS_IN_YR
SAL_CAP_CD	SHOW_LKP_FL
SAL_CAP_CD	TIME_STAMP
SAL_CAP_EFF_DT	EFFECT_END_DT
SAL_CAP_EFF_DT	EFFECT_START_DT
SAL_CAP_EFF_DT	MODIFIED_BY

Table Name	Column Name
SAL_CAP_EFF_DT	ROWVERSION
SAL_CAP_EFF_DT	SAL_CAP_AMT
SAL_CAP_EFF_DT	SAL_CAP_CD
SAL_CAP_EFF_DT	TIME_STAMP
SCHED_RECPT	DEP_SCHED_RECPT_KEY
VCHR_SETTINGS	IWO_UNAPPRV_VCHR_FL
WFA_ACTIVITY_CASE	ACTIVITY_KEY
WFA_ACTIVITY_CASE	CASE_KEY
WFA_ACTIVITY_CASE	COMPL_NOTES
WFA_ACTIVITY_CASE	COMPL_TIME
WFA_ACTIVITY_CASE	COMPL_USER_ID
WFA_ACTIVITY_CASE	DELEGATE_TIME
WFA_ACTIVITY_CASE	DELEGATE_USER_ID
WFA_ACTIVITY_CASE	ESCALATE_CD
WFA_ACTIVITY_CASE	ESCALATE_TIME
WFA_ACTIVITY_CASE	INDEX_NO
WFA_ACTIVITY_CASE	MODIFIED_BY
WFA_ACTIVITY_CASE	REJECT_CD
WFA_ACTIVITY_CASE	REJECT_NOTES
WFA_ACTIVITY_CASE	ROWVERSION
WFA_ACTIVITY_CASE	START_TIME
WFA_ACTIVITY_CASE	STATUS_CD
WFA_ACTIVITY_CASE	TIME_STAMP
WFA_ACTIVITY_CASE	WF_KEY
WFA_CASE_FIELD	CASE_KEY

Table Name	Column Name
WFA_CASE_FIELD	DATA_TYPE
WFA_CASE_FIELD	FIELD_ID
WFA_CASE_FIELD	KEY_FL
WFA_CASE_FIELD	MODIFIED_BY
WFA_CASE_FIELD	ROWVERSION
WFA_CASE_FIELD	TIME_STAMP
WFA_CASE_FIELD	VALUE_DT
WFA_CASE_FIELD	VALUE_NUM
WFA_CASE_FIELD	VALUE_TX
WFA_WF_CASE	CASE_KEY
WFA_WF_CASE	COMPL_TIME
WFA_WF_CASE	MODIFIED_BY
WFA_WF_CASE	REJECT_CD
WFA_WF_CASE	ROWVERSION
WFA_WF_CASE	START_TIME
WFA_WF_CASE	START_USER_ID
WFA_WF_CASE	TIME_STAMP
WFA_WF_CASE	WF_KEY
WFA_WF_CASE	WF_STATUS
X_Z_AOPUTLTS_CURR_EXCH_RT	EURO_CRNCY_FL
X_Z_AOPUTLTS_CURR_EXCH_RT	EUR_TO_FUNC_RT
X_Z_AOPUTLTS_CURR_EXCH_RT	RATE_GRP_ID
X_Z_AOPUTLTS_CURR_EXCH_RT	S_CRNCY_CD
X_Z_AOPUTLTS_CURR_EXCH_RT	TRN_EXCH_RT
X_Z_AOPUTLTS_CURR_EXCH_RT	TRN_TO_EUR_RT

Table Name	Column Name
X_Z_AOPUTLTS_CURR_EXCH_RT	TRN_TO_EUR_RT_FL
Z_LDPROTP_ADJ1TSLN	TS_LN_DT
Z_LDPROTP_ADJ2TSLN	TS_LN_DT
Z_LDPROTP_ADJ3TSLN	TS_LN_DT

### Columns Modified

Table Name	Column name	Change
HB_EMPL_CURR_ELEC	CASH_OUT_AMT	COLUMN NULLABILITY
HB_EMPL_CURR_ELEC	CO_PREM_AMT	COLUMN NULLABILITY
HB_EMPL_CURR_ELEC	EMPL_PREM_AMT	COLUMN NULLABILITY
HB_EMPL_CURR_ELEC	TOTAL_PREM_AMT	COLUMN NULLABILITY
TE_PAY_INFO	BAS_PAY_AMT	COLUMN NULLABILITY
TE_PAY_INFO	PAY_PAY_AMT	COLUMN NULLABILITY

### Foreign Keys Added

CHILD TABLE	FOREIGN KEY NAME	PARENT TABLE
CEIL_BURDEN_CST_ADT	FK_CEIL_BURDEN_CST_ADT_PCA_IDX	POOL_ALLOC
OVERRIDE_FEE_ON_BURD_ADT	FK_OV_FEE_ON_BURD_ADT_POA_IDX	POOL_ALLOC
PROJ	FK_PROJ_SA_IDX	SAL_CAP_CD
PROJ_ADT	FK_PROJ_ADT_PR_IDX	PROJ
SAL_CAP_EFF_DT	FK_SAL_CAP_EFF_DT_SA_IDX	SAL_CAP_CD
WFA_ACTIVITY_CASE	FK_WFA_ACTIVITY_CASE_CA_IDX	WFA_WF_CASE
WFA_CASE_FIELD	FK_WFA_CASE_FIELD_CA_IDX	WFA_WF_CASE

### Foreign Keys Dropped

Table Name	Constraint Name
CEIL_BURDEN_CST_ADT	FK_CEIL_BURDEN_CST_ADT_PCA_IDX



Table Name	Constraint Name
OVERRIDE_FEE_ON_BURD_ADT	FK_OV_FEE_ON_BURD_ADT_PCA_IDX
PROJ_ADT	FK_PROJ_ADT_PR_IDX
SO_ISS_SERIAL_LOT	FK_SO_ISS_SERIAL_LOT_SSSS_IDX

### Primary Keys Added

Table Name	Constraint Name
ENG_BOM_TEXT	PK_ENG_BOM_TEXT_IDX
MFG_BOM_TEXT	PK_MFG_BOM_TEXT_IDX
PROJ_ADT_CHG_HS	PK_PROJ_ADT_CHG_HS_IDX
SAL_CAP_CD	PK_SAL_CAP_CD_IDX
SAL_CAP_EFF_DT	PK_SAL_CAP_EFF_DT_IDX
WFA_ACTIVITY_CASE	PK_WFA_ACTVTY_CASE_IDX
WFA_CASE_FIELD	PK_WFA_CASE_FIELD_IDX
WFA_WF_CASE	PK_WFA_WF_CASE_IDX

### Indexes Added

Index Name	Table Name	Column Name	Column Sequence
PK_ENG_BOM_TEXT_IDX	ENG_BOM_TEXT	ASY_PART_KEY	1
PK_ENG_BOM_TEXT_IDX	ENG_BOM_TEXT	BOM_LN_KEY	2
PK_ENG_BOM_TEXT_IDX	ENG_BOM_TEXT	SEQ_NO	3
PK_ENG_BOM_TEXT_IDX	ENG_BOM_TEXT	TEXT_CD	4
PK_ENG_BOM_TEXT_IDX	ENG_BOM_TEXT	TEXT_CD_RVSN_NO	5
PK_MFG_BOM_TEXT_IDX	MFG_BOM_TEXT	ASY_PART_KEY	1
PK_MFG_BOM_TEXT_IDX	MFG_BOM_TEXT	BOM_LN_KEY	2
PK_MFG_BOM_TEXT_IDX	MFG_BOM_TEXT	SEQ_NO	3
PK_MFG_BOM_TEXT_IDX	MFG_BOM_TEXT	TEXT_CD	4

Index Name	Table Name	Column Name	Column Sequence
PK_MFG_BOM_TEXT_IDX	MFG_BOM_TEXT	TEXT_CD_RVSN_NO	5
PK_PROJ_ADT_CHG_HS_IDX	PROJ_ADT_CHG_HS	ADT_CHG_KEY	1
PK_SAL_CAP_CD_IDX	SAL_CAP_CD	SAL_CAP_CD	1
PK_SAL_CAP_EFF_DT_IDX	SAL_CAP_EFF_DT	SAL_CAP_CD	1
PK_SAL_CAP_EFF_DT_IDX	SAL_CAP_EFF_DT	EFFECT_START_DT	2
PK_WFA_ACTVTY_CASE_IDX	WFA_ACTIVITY_CASE	CASE_KEY	1
PK_WFA_ACTVTY_CASE_IDX	WFA_ACTIVITY_CASE	WF_KEY	2
PK_WFA_ACTVTY_CASE_IDX	WFA_ACTIVITY_CASE	ACTIVITY_KEY	3
PK_WFA_ACTVTY_CASE_IDX	WFA_ACTIVITY_CASE	INDEX_NO	4
PK_WFA_CASE_FIELD_IDX	WFA_CASE_FIELD	CASE_KEY	1
PK_WFA_CASE_FIELD_IDX	WFA_CASE_FIELD	FIELD_ID	2
PK_WFA_WF_CASE_IDX	WFA_WF_CASE	CASE_KEY	1
SYS_C00144937	DB_UPGRADE_STATUS	SEQ_NO	1

### Indexes Dropped

Index Name	Table Name	Column Name	Column Sequence
PI_6058	MFG_BOM_TEXT	ASY_PART_KEY	1
PI_6058	MFG_BOM_TEXT	BOM_LN_KEY	2
PI_6058	MFG_BOM_TEXT	SEQ_NO	3
PI_6838	ENG_BOM_TEXT	ASY_PART_KEY	1
PI_6838	ENG_BOM_TEXT	BOM_LN_KEY	2
PI_6838	ENG_BOM_TEXT	SEQ_NO	3
SYS_C00145513	DB_UPGRADE_STATUS	SEQ_NO	1

## Admin Schema

### Tables Added

Table Name
S_QUERY_TBL_LST
WFA_ACTIVITY
WFA_ACTIVITY_STRUC
WFA_CONDITION
WFA_NODE
WFA_ROLE
WFA_ROLE_USER
WFA_UPDATE
WFA_WF
WFA_WF_FIELD
WFA_WF_ROLE
W_MFA_FIDO_KEYS

### Columns Added

Table Name	Column Name
S_QUERY_TBL_LST	RESERVE_DATE
S_QUERY_TBL_LST	TBL_NAME
WFA_ACTIVITY	ACTIVITY_CD
WFA_ACTIVITY	ACTIVITY_KEY
WFA_ACTIVITY	ACTIVITY_NAME
WFA_ACTIVITY	ADDL_HRS_NO
WFA_ACTIVITY	APP_ID
WFA_ACTIVITY	DURATION_HRS_NO
WFA_ACTIVITY	ESC_ROLE_CD

Table Name	Column Name
WFA_ACTIVITY	INSTRUCTION_TX
WFA_ACTIVITY	MODIFIED_BY
WFA_ACTIVITY	NOTIFY_ESC_FL
WFA_ACTIVITY	NOTIFY_FL
WFA_ACTIVITY	PRIORITY_NO
WFA_ACTIVITY	QUERY_KEY
WFA_ACTIVITY	REQUIRED_FL
WFA_ACTIVITY	ROLE_CD
WFA_ACTIVITY	ROWVERSION
WFA_ACTIVITY	RS_ID
WFA_ACTIVITY	TIME_STAMP
WFA_ACTIVITY	TOTAL_HRS_NO
WFA_ACTIVITY	UPDATE_KEY
WFA_ACTIVITY	WF_KEY
WFA_ACTIVITY_STRUC	ACTIVITY_CD
WFA_ACTIVITY_STRUC	ACTIVITY_KEY
WFA_ACTIVITY_STRUC	CHILD_TYPE_CD
WFA_ACTIVITY_STRUC	COMPANY_ID
WFA_ACTIVITY_STRUC	GROUP_INDEX_NO
WFA_ACTIVITY_STRUC	INDEX_NO
WFA_ACTIVITY_STRUC	MODIFIED_BY
WFA_ACTIVITY_STRUC	PARENT_INDEX_NO
WFA_ACTIVITY_STRUC	ROWVERSION
WFA_ACTIVITY_STRUC	TEXT_S
WFA_ACTIVITY_STRUC	TIME_STAMP

Table Name	Column Name
WFA_ACTIVITY_STRUC	WF_KEY
WFA_CONDITION	CONDITION_KEY
WFA_CONDITION	DATA_TYPE
WFA_CONDITION	FIELD_ID
WFA_CONDITION	MODIFIED_BY
WFA_CONDITION	QUERY_KEY
WFA_CONDITION	RELATION_CD
WFA_CONDITION	ROWVERSION
WFA_CONDITION	TIME_STAMP
WFA_CONDITION	VALUE_DT
WFA_CONDITION	VALUE_NUM
WFA_CONDITION	VALUE_TX
WFA_NODE	APP_ID
WFA_NODE	MODIFIED_BY
WFA_NODE	NODE_KEY
WFA_NODE	NODE_NAME
WFA_NODE	PRIORITY_NO
WFA_NODE	QUERY_KEY
WFA_NODE	REQUIRED_FL
WFA_NODE	ROWVERSION
WFA_NODE	RS_ID
WFA_NODE	S_NODE_CD
WFA_NODE	TIME_STAMP
WFA_NODE	WF_KEY
WFA_ROLE	MODIFIED_BY

Table Name	Column Name
WFA_ROLE	ROLE_CD
WFA_ROLE	ROWVERSION
WFA_ROLE	TIME_STAMP
WFA_ROLE	TYPE_CD
WFA_ROLE_USER	MODIFIED_BY
WFA_ROLE_USER	ROLE_CD
WFA_ROLE_USER	ROWVERSION
WFA_ROLE_USER	TIME_STAMP
WFA_ROLE_USER	USER_ID
WFA_UPDATE	DATA_TYPE
WFA_UPDATE	EXPRESSION_KEY
WFA_UPDATE	FIELD_ID
WFA_UPDATE	MODIFIED_BY
WFA_UPDATE	ROWVERSION
WFA_UPDATE	TIME_STAMP
WFA_UPDATE	UPDATE_KEY
WFA_UPDATE	VALUE_DT
WFA_UPDATE	VALUE_NUM
WFA_UPDATE	VALUE_TX
WFA_WF	ACTIVE_FL
WFA_WF	APP_ID
WFA_WF	INSTRUCTION_TX
WFA_WF	MODIFIED_BY
WFA_WF	QUERY_KEY
WFA_WF	REQ_REJECT_CD

Table Name	Column Name
WFA_WF	ROLE_CD
WFA_WF	ROWVERSION
WFA_WF	RS_ID
WFA_WF	TIME_STAMP
WFA_WF	TOTAL_HRS_NO
WFA_WF	WF_KEY
WFA_WF	WF_NAME
WFA_WF_FIELD	APP_ID
WFA_WF_FIELD	DATA_TYPE
WFA_WF_FIELD	FIELD_ID
WFA_WF_FIELD	KEY_FL
WFA_WF_FIELD	LOCK_FL
WFA_WF_FIELD	MODIFIED_BY
WFA_WF_FIELD	ROWVERSION
WFA_WF_FIELD	RS_ID
WFA_WF_FIELD	TIME_STAMP
WFA_WF_FIELD	WF_KEY
WFA_WF_ROLE	MODIFIED_BY
WFA_WF_ROLE	ROLE_CD
WFA_WF_ROLE	ROWVERSION
WFA_WF_ROLE	TIME_STAMP
WFA_WF_ROLE	TYPE_CD
WFA_WF_ROLE	WF_KEY
W_MFA_FIDO_KEYS	KEY_CERT
W_MFA_FIDO_KEYS	KEY_COUNTER

Table Name	Column Name
W_MFA_FIDO_KEYS	KEY_CREATE_DTT
W_MFA_FIDO_KEYS	KEY_DESC
W_MFA_FIDO_KEYS	KEY_HANDLE
W_MFA_FIDO_KEYS	KEY_ID
W_MFA_FIDO_KEYS	MODIFIED_BY
W_MFA_FIDO_KEYS	PUBLIC_KEY
W_MFA_FIDO_KEYS	ROWVERSION
W_MFA_FIDO_KEYS	TIME_STAMP
W_MFA_FIDO_KEYS	USER_ID
W_USER_UGRP_LIST	DELEGATE_FROM_DT
W_USER_UGRP_LIST	DELEGATE_TO_DT
W_USER_UGRP_LIST	DELEGATE_USER_ID
W_USER_UGRP_LIST	MFA_FIDO_FL
W_USER_UGRP_LIST	MFA_FIDO_PSWD_FL

### Foreign Keys Added

Child Table	Foreign Key Name	Parent Table
WFA_ACTIVITY	FK_WFA_ACTIVITY_WF_IDX	WFA_WF
WFA_ACTIVITY_STRUC	FK_WFA_ACTIVITY_STRUC_WF_IDX	WFA_WF
WFA_NODE	FK_WFA_NODE_WF_IDX	WFA_WF
WFA_ROLE_USER	FK_WFA_ROLE_USER_RO_IDX	WFA_ROLE
WFA_WF	FK_WFA_WF_RO_IDX	WFA_ROLE
WFA_WF_FIELD	FK_WFA_WF_FIELD_WF_IDX	WFA_WF
WFA_WF_ROLE	FK_WFA_WF_ROLE_RO_IDX	WFA_ROLE
WFA_WF_ROLE	FK_WFA_WF_ROLE_WF_IDX	WFA_WF
W_MFA_FIDO_KEYS	FK_W_MFA_FIDO_KEYS_US_IDX	W_USER_UGRP_LIST



## Primary Keys Added

Table Name	Constraint Name
WFA_ACTIVITY	PK_WFA_ACTIVITY_IDX
WFA_ACTIVITY_STRUC	PK_WFA_ACTIVITY_STRUC_IDX
WFA_CONDITION	PK_WFA_CONDITION_IDX
WFA_NODE	PK_WFA_NODE_IDX
WFA_ROLE	PK_WFA_ROLE_IDX
WFA_ROLE_USER	PK_WFA_ROLE_USER_IDX
WFA_UPDATE	PK_WFA_UPDATE_IDX
WFA_WF	PK_WFA_WF_IDX
WFA_WF_FIELD	PK_WFA_WF_FIELD_IDX
WFA_WF_ROLE	PK_WFA_WF_ROLE_IDX

## Indexes Dropped

Index Name	Table Name	Column Name	Column Sequence
SYS_C00144058	DB_UPGRADE_STATUS	SEQ_NO	1

## Indexes Added

Index Name	Table Name	Column Name	Column Sequence
PK_WFA_ACTIVITY_IDX	WFA_ACTIVITY	WF_KEY	1
PK_WFA_ACTIVITY_IDX	WFA_ACTIVITY	ACTIVITY_KEY	2
PK_WFA_ACTIVITY_STRUC_IDX	WFA_ACTIVITY_STRUC	WF_KEY	1
PK_WFA_ACTIVITY_STRUC_IDX	WFA_ACTIVITY_STRUC	ACTIVITY_KEY	2
PK_WFA_CONDITION_IDX	WFA_CONDITION	QUERY_KEY	1
PK_WFA_CONDITION_IDX	WFA_CONDITION	CONDITION_KEY	2
PK_WFA_NODE_IDX	WFA_NODE	WF_KEY	1

Index Name	Table Name	Column Name	Column Sequence
PK_WFA_NODE_IDX	WFA_NODE	NODE_KEY	2
PK_WFA_ROLE_IDX	WFA_ROLE	ROLE_CD	1
PK_WFA_ROLE_USER_ID X	WFA_ROLE_USER	ROLE_CD	1
PK_WFA_ROLE_USER_ID X	WFA_ROLE_USER	USER_ID	2
PK_WFA_UPDATE_IDX	WFA_UPDATE	UPDATE_KEY	1
PK_WFA_UPDATE_IDX	WFA_UPDATE	EXPRESSION_ KEY	2
PK_WFA_WF_FIELD_IDX	WFA_WF_FIELD	WF_KEY	1
PK_WFA_WF_FIELD_IDX	WFA_WF_FIELD	APP_ID	2
PK_WFA_WF_FIELD_IDX	WFA_WF_FIELD	RS_ID	3
PK_WFA_WF_FIELD_IDX	WFA_WF_FIELD	FIELD_ID	4
PK_WFA_WF_IDX	WFA_WF	WF_KEY	1
PK_WFA_WF_ROLE_IDX	WFA_WF_ROLE	WF_KEY	1
PK_WFA_WF_ROLE_IDX	WFA_WF_ROLE	ROLE_CD	2
SYS_C00143454	DB_UPGRADE_ST ATUS	SEQ_NO	1
S_QUERY_TBL_LST_IDX	S_QUERY_TBL_LS T	TBL_NAME	1
UI_W_MFA_FIDO_KEYS_ KEUS_IDX	W_MFA_FIDO_KEY S	KEY_ID	1
UI_W_MFA_FIDO_KEYS_ KEUS_IDX	W_MFA_FIDO_KEY S	USER_ID	2
UI_W_MFA_FIDO_KEYS_ KHUS_IDX	W_MFA_FIDO_KEY S	KEY_HANDLE	1
UI_W_MFA_FIDO_KEYS_ KHUS_IDX	W_MFA_FIDO_KEY S	USER_ID	2

## System Schema

### Tables Added

Table Name
S_QUERY_TBL_LST

### Columns Added

Table Name	Column Name
S_QUERY_TBL_LST	RESERVE_DATE
S_QUERY_TBL_LST	TBL_NAME

### Indexes Dropped

Index Name	Table Name	Column Name	Column Sequence
SYS_C00145765	DB_UPGRADE_STATUS	SEQ_NO	1

### Indexes Added

Index Name	Table Name	Column Name	Column Sequence
SYS_C00145195	DB_UPGRADE_STATUS	SEQ_NO	1
S_QUERY_TBL_LST_IDX	S_QUERY_TBL_LST	TBL_NAME	1

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