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| *Pacific Gas and Electric Company* | |
| Settings Management Database Installation Guide | |
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| Project | ED AM/GIS – Settings Database Deployment |
|  |  |
| Prepared by | Ratnakar Shreeramula |
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| Document # | Date | Author | Summary of Changes |
| 0.1 | 4/21/14 | Ratnakar Shreeramula | Initial Document Creation |
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# Introduction

## Purpose

This document is intended to detail the implementation and configuration steps required to implement Settings Database.This document describes the various configuration aspects required to complete any manual or automatic patch associated with this release. Each section in this document contains the steps required to patch the system in production.

## Terms Used

|  |  |
| --- | --- |
| OOTB | Out of the box. Unmodified from the commercial version. |
| TFS | Team Foundation Server |
| DB | Database |
| IIS | Internet Information Services |
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## External Documents

Referenced are any external configuration documents or exports. These are documents that contain more detailed information about configuring a system or documents that can be loaded into an application to perform the configuration detailed in this document.

## List Of Fixes

Below is the list of change requests detailing all fixes for this release:

|  |  |  |
| --- | --- | --- |
| **Item Number** | **Title** | **Work Item Type** |
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## Summary of Steps to Complete Installation

These are the high-level steps to complete the installation and configuration of the Settings Management database. Use this table as a guide for completing the installation. Links are provided that can lead either within the document for detailed explanations or to external sites such as Sharepoint.

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| --- | --- | --- | --- |
|  | **Step Name** | **Description** | **CR (if applicable)** |
|  | Create and configure database | Create and configure schema, load configuration data, run migration data steps, validation data. |  |
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# Detailed Installation Instructions:

## Create EDSETT schema with default tablespace named EDSETT and assign the following privileges.( Done by DBA)

GRANT CREATE TRIGGER TO edsett ;

GRANT CREATE SEQUENCE TO edsett ;

GRANT CREATE TABLE TO edsett ;

GRANT CREATE PROCEDURE TO edsett ;

GRANT CREATE SYNONYM TO edsett ;

GRANT CREATE VIEW TO edsett ;

GRANT CREATE TYPE TO edsett ;

GRANT CREATE SESSION TO edsett ;

Note : All the table/index creation scripts have been updated with EDSETT tablespace.

Please ensure you spool/save the output while executing the scripts at each step.

## Login as EDSETT user

## Execute the CEDSA & GIS table creation scripts.

SQL>@ cedsa\_gis\_ddls.sql

## Execute the ddl scripts to create SM tables/indexes/triggers/sequences/views/package/procedure/function for Settings application.

SQL>@ sm\_objects.sql

Note : There would be warnings listed while creating the views and will be fixed by re-compiling the objects.

## Compile all the invalid objects after exeucting the scripts and ensure all the objects are valid.

## Load the data for SM look up tables from sm\_lookup\_data.sql file and commit after executing the script.

SQL>@sm\_lookup\_tables\_data.sql

SQL>commit;

SM\_FC\_LAYER\_MAPPING

SM\_TABLE\_RANGE\_VALUE

SM\_TABLE\_LOOKUP

SM\_SWITCH\_REQUIRED

SM\_SECTIONALIZER\_REQUIRED

SM\_REGULATOR\_REQUIRED

SM\_RECLOSER\_REQUIRED

SM\_NETWORK\_PROTECTOR\_REQUIRED

SM\_INTERRUPTER\_REQUIRED

SM\_CIRCUIT\_BREAKER\_REQUIRED

SM\_CAPACITOR\_REQUIRED

## Load the data for CEDSAand GIS\_CEDSADEVICEID (tables) and commit after executing the script to save the data.

SQL>@cedsa\_gis\_data.sql

SQL>commit;

Note : This step will take around 45 mins as it will try to import the data through insert statements.

## Execute the data migration procedures one by one to migrate the data from CEDSA tables into (settings) SM tables.

SQL>exec SP\_SM\_SECTIONALIZER

SQL> exec SP\_SM\_REGULATOR

SQL>exec SP\_SM\_NETWORK\_PROTECTOR

SQL>exec SP\_SM\_INTERRUPTER

SQL>exec SP\_SM\_CIRCUIT\_BREAKER

SQL>exec SP\_SM\_CAPACITOR

SQL>exec SP\_SM\_RECLOSER

SQL>exec SP\_SM\_SWITCH

Note :

SP\_SM\_RECLOSER procedure will take around 10-15 mins to complete.

SP\_SM\_SWITCH procedure will take around 30mins to complete.

All the other procedures will complete within 5 mins.

## Validate the migrated data in SM ( device) tables.

Execute the below script to gather the statistics after data migration and provide the output of this script.

SQL>exec DISPLAY\_COUNT\_DEVICES;