



Real Time Batch Detailed Design – sprdrbld.ctl

Product Specification Revision History

Revision No	Date	Name	Comment
1	1/29/04	Raina Chan	Initial Draft

Approval and Distribution:

Once the Detail Design document is approved by the Project Technical Lead and/or Design Lead, it should be distributed to the specific project team members.

Title	Names
Technical Lead	
Design Lead	

Functional Area

General Security

Module Affected

Sprdrbld.ctl – Product Security Rebuild

Design Overview

Solution #2 – General Security Approach

Security features which are added to RMS are maintained in the batch cycle. With each run, the changes made to the data in RMS will be brought under the security features of RMS through the running of 3 batch programs.

Clients require the ability to run their batch cycle while users are still on the system in order to account for scenarios where there are 24 hour stores or when the client has locations throughout the world in different time zones.

The general security programs need to be modified to work an environment where users can be online at any time. If the btch_w_usr_ind from the system_options table is set to 'Y' users may be online. The current general security maintenance process is to truncate the security tables then rebuild them. However if the btch_w_usr_ind is set to 'Y' at no time can the security information be purged from the system, leaving users without security.

To prevent the above scenario, the system will be modified to create security table views. Within each security view there will be two permanent tables. While the batch is rebuilding, the security the on-line application will point to the permanent table with the old security. Once the new security has been built, a batch program will switch the on-line application view to the permanent table with the new security.

Specifically, sprdrbld.ctl will load the data to the correct permanent table, sec_user_prod_matrix_a or sec_user_prod_matrix_b.

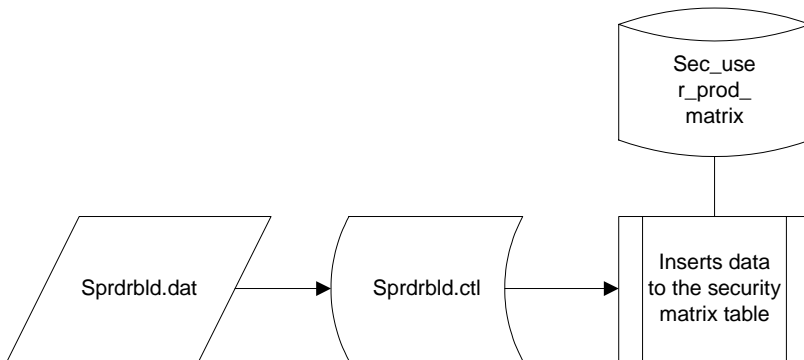
The following tables are affected by the control script:

TABLE	INDEX	SELECT	INSERT	UPDATE	DELETE
Sec_user_prod_matrix_a	No	No	Yes	No	No
Sec_user_prod_matrix_b	No	No	Yes	No	No

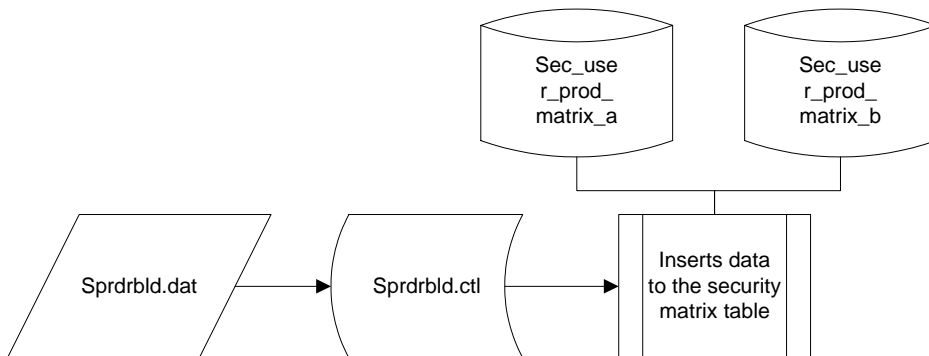
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Program Flow

Current Functional Flow:



Proposed Functional Flow:



Flow Description:

Logical Unit of work

The logical unit of work for this program is the output file produced by the batch program sprdrbld.pc.

Function Level Description

Load data

- Load data to sec_user_prod_matrix_a when the first column of the data is 'A' and load data to sec_user_prod_matrix_b when the first column of the data is 'B'.

```

LOAD DATA
APPEND INTO TABLE sec_user_prod_matrix_a
WHEN permanent_table='A'
FIELDS TERMINATED BY ','
(permanent_table FILLER,
  
```



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```
column_code,  
user_id,  
item,  
select_ind,  
update_ind)  
INTO TABLE sec_user_prod_matrix_b  
WHEN permanent_table='B'  
FIELDS TERMINATED BY ';'   
(permanent_table FILLER position (1),  
column_code,  
user_id,  
item,  
select_ind,  
update_ind)
```

Stored Procedures / Shared Modules

N/A

Input Specifications

The format of the output file is as follows:

Table;column_code;user_id;item;select_ind;update_ind

Example:

A;PPRM;JOHN;10007986;N;N

A;PPRC;CLINTON;10001000;Y;N

A;PPRM;CLINTON;10007986;Y;Y

Output Specifications

N/A

Scheduling Considerations

This program will run daily in nightly batch cycle and should be run after the.

Pre-Processing: Sprdrbld.pc

Post-Processing: Prepost.pc – sprdrbld_post

Threading Scheme: none

Locking Strategy

N/A

Restart / Recovery

N/A



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Performance

N/A

Security

- If the btch_w_usr_ind is set to 'Y' the batch cycle will have to run with all the oracle policies turned on.

Unit Test Considerations

Design Assumptions

- If the btch_w_usr_ind = 'Y' the batch user will have to have full privileges since the Oracle Policies will remain enabled.

Outstanding Design Issues

Issue #	Issue Description	Issue Resolution	Priority – High Moderate Low
1			
2			
3			

Note: The pseudo code mentioned above is just an example and may need changes as per exact semantics and syntax and Retek batch programming standard.

References

- RMS 10.2 Product Specification General Security
- Nexcom Batch SAE V3.doc