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# 2EMHFWLYHV DQG EHQHILWV

'HVFULSWLRQ RI WKH SURMFWV REMHFWLYHV IRU H[DPSOH  
VFLHQWLILF QHHGV LW V DGGUHVVLQJ

:KDW V WKH DLP RI WKLV SURMFW"

7KH DLP LV WR DVVHVV WKH VDIHW\ DQG IHDVLELOLW\ RI D Q  
6 HePđ PHEQWUD(WLL€GL LO FWVLLOFFÀ V#)€u ã€ P0  
6 HePđ P@pOD pFP GU (F LR•pLU RV LDD pFWP †TWLLE€ P0

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GHYHORS VHSV LV 6HSV LV FDXVHG E\ SDWKRJHQV IURP DC  
EORRGVWUHP &29,' DQG VHSV LV FDQ ERWK HOLFLW D DEQF  
PXOWLSOH RUJDQ IDLOXUH DQG GHDWK 7KH FKDOOHQJH LQ  
UHVSQRVH FRQWULEXWH WR WKH GLVHDVH 7KH DELOLW\ WR  
LQIODPPDWRU\ UHVSQRVH FRXOG VLJQLILFDQWO\ LPSURYH P

,Q SDUWLFXODU WKHUH LV DQ XUJHQW QHHG IRU QHZ WKHUH  
PRUWDOLW\ RI &29,' DQG WKH QXPEHU RI SDWLHQWV WKDW  
VKRZQ WKDW PFK RI WKH KDUP GRQH LQ VHYHUH FDVHV RI &  
K\SHU LPPXQH UHVSQRVH 8VLQJ WKH PDJQHWLF EORRG ILOV  
LQIODPPDWRU\ VWDWH ZLWKRXW V\ VWHP LF GHOLYHU\ RI ELR  
LPPXQH UHVSQRVH ZLWKRXW FDXVLQJ ORQJ WHUP LPPXQRVX  
K\SHULQIODPPDWLRQ VHHQ LQ WKH OXQJV WKDW GULYHV KR'  
SDWLHQWV WKDW UHVXOWV LQ VLJQLILFDQW PRUWDOLW\

+RZ ZLOO \RX ORRN WR PD[LPLVH WKH RXWSXWV RI WKL V ZRL

7KH RXWSXWV IURP WKL V ZRUN ZLOO EH GLVVHPLQDWHG WR  
SHHU UHYLHZHG MRXUQDOV DQG E\ SUHVHQWDWLRQ DW LQW  
SXEOLVKHG DQG VKDUHG ZLWKLQ WKH VFLHQWLILF FRPPXQL'  
SDW  
X

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\$QLPDOV ZLOO EH DFFOLPDWLVHG DQG WUDLQHG IRU KDQGO  
,Q WKH ILUVW VWXG\ DQLPDOV ZLOO EH DQDHVWKHWLVHG D

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6WDWH ZKDW QRQ DQLPDO DOWHUQDWLYHV DUH DYDLODEOH  
FRQVLGHUHG DQG ZK\ WKH\ FDQQRW EH XVHG IRU WKLV SXUS

:K\ GR \RX QHHG WR XVH DQLPDOV WR DFKLHYH WKH DLP RI \

3UH FOLQLFDO VDIHW\ VWXGLHV FRQGXFWHG LQ DQLPDOV DU  
PHGLFDO GHYLFH ,QWHUQDWLRQDO VWDQGDUGV ,62 SD  
HYDOXDWLRQ RI PHGLFDO GHYLFHV DQG OLVW WKH VHOHFWL  
GHYLFHV LQWHUDFWLQJ ZLWK EORRG 7KHVH WHVWV UHTXLU

)RU HIILFDF\ VWXGLHV RQO\ D ZKROH ELRORJ\ V\VWHPV DSSL  
RI WKH K\SHU LQIODPPDWRU\ FRQGLWLRQV WKH GHYLFH LV G

:KLFK QRQ DQLPDO DOWHUQDWLYHV GLG \RX FRQVLGHU IRU \

7KHUH DUH QR QRQ DQLPDO DOWHUQDWLYHV WR DFKLHYH W

:K\ ZHUH WKH\ QRW VXLWDEOH"

1 \$

## 5HGXFWRQ

([SODLQ KRZ WKH QXPEHUV RI DQLPDOV IRU WKLV SURMHFW ;  
EHHQ WDNHQ WR UHGXFH DQLPDO QXPEHUV DQG SULQFLSOH  
WKDW DUH XVHG WKURXJKRXW WKH SURMHFW WR PLQLPLVH C  
DQ\ 7KHVH PD\ LQFOXGH H J SLORW VWXGLHV FRPSXWHU PI

+RZ KDYH \RX HVWLPDWHG WKH QXPEHUV RI DQLPDOV \RX ZL

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)LQDOO\ WHUPLQDO VWXGLHV GHVLJQHG WR WHVW HIILFDF\ ;  
WKH LQIODPPDWRU\ FRPSRXQGV LQ ODUJH DQLPDO PRGHOV I  
DW WKH WHVW IDFLOLW\ DV ZHOO DV EHQFK WRS WHVWLQJ  
EORRG WKHVH WRJHWKHU LJQHG H HOO PHDOHKHVHOL  
EORRGIOR• JHH e LHH TÖRRÖRÖE I



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\$QLPDOV ZLOO FRQWLQXDOO\ EH PRQLWRUHG IRU VLJQV RI S  
H[SHULHQFHG YHWHULQDULDQV DQG DQLPDO FDUH WHFKQLF

\$QDHWKHWLVWV ZRUN WR EHVW SUDFWLFH JXLGHOLQHV IRU  
XS WR GDWH ZLWK QHZ SUDFWLFHV

6WDQGDUG 2SHUDWLQJ 3URFHGXUHV DUH HPSOR\HG IRU DQL

+RZ ZLOO \RX VWD\ LQIRUPHG DERXW DGYDQFHV LQ WKH 5V  
HIIHFWLYHO\ GXULQJ WKH SURMHFW"

:H ZLOO FRQWLQXRXVO\ PRQLWRU SXEOLFDWLRQV DQG WKH  
FRXOG EH LPSOHPHQWHG DV SDUW RI WKLV SURMHFW ,Q DG  
SXEOLVKHG RQ LQWHUQDO 1HZV )RUXP DQG RWKHU UHOHYDC  
SRVVLEOH ZH ZLOO LPSOHPHQW WKHVH UHILQHPHQWV LQWR