

IOF_{US}	$\text{HOF}_{\text{US}} 1$...	$\text{HOF}_{\text{US}} N$	$\text{AUTH_OF}_{\text{US}}$
IOF_{DS}	$\text{AUTH_OF}_{\text{DS}}$	$\text{HOF}_{\text{DS}} 1$...	$\text{HOF}_{\text{DS}} M$